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1 The fecal metabolome as a functional readout of the 2 gut microbiome

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20

1 **Abstract**

2 The human gut microbiome plays a key role in human health¹, but 16S characterization lacks quantitative
3 functional annotation². The fecal metabolome provides a functional readout of microbial activity and could
4 be used as an intermediate phenotype mediating these interactions³. In the first comprehensive description
5 of the fecal metabolome, examining 1116 metabolites of 786 individuals from a population-based twin
6 study (TwinsUK), the fecal metabolome was found to be only modestly influenced by host genetics
7 ($h^2=17.9\%$). One replicated locus at the *NAT2* gene was associated with fecal metabolic traits. The fecal
8 metabolome largely reflects gut microbial composition explaining on average 67.7% ($\pm 18.8\%$) of its variance.
9 It is strongly associated with visceral fat mass, illustrating potential mechanisms underlying the well-
10 established microbial influence on abdominal obesity. Fecal metabolic profiling appears as a novel tool to
11 explore links between microbiome composition, host phenotypes, and heritable complex traits.

12

1 There is growing evidence that the gut microbiome contributes to maintain homeostasis of host
2 metabolism¹. Disruption of this intricate system is associated with diseases such as obesity^{4,5} and
3 insulin resistance⁶. Metabolomics and the gut microbiome are strongly related, with microbes
4 producing many of the body's chemicals, hormones and vitamins⁷. The gut microbiome has been
5 reported to have an effect on circulating levels of several metabolites such as branched-chain amino
6 acids potentially causing insulin resistance⁶. However, despite the advances of next generation
7 sequencing platforms, which allow profiling of complex microbial communities using 16S
8 sequencing, annotation is sparse. Moreover, the microbiome only codes microbial possibilities
9 rather than their actual activity and cannot differentiate between alive and dead microbes⁸, nor
10 determine the transcriptional activity of the genes within each bacterial genome². Fecal
11 metabolomics, however, reports specifically on the metabolic interplay between the host, diet and
12 the gut microbiota³ and complements sequencing-based approaches with a functional readout of
13 the microbiome. Here we provide the first comprehensive description of the fecal metabolome in a
14 large population-based setting with the additional advantage of the twin model. We report (i) fecal
15 metabolites associations with age, gender and obesity; (ii) host genetic influences; and (iii) uni- and
16 multivariable dependencies with the gut microbiome.

17 We analyzed fecal samples of 786 predominantly female twins of the TwinsUK cohort, aged 65.2
18 (± 7.6), with an average BMI of 26.1 (± 4.7) (Supplementary Table 1) and we replicated our genetics
19 results in an independent sample of 230 individuals, aged 66.9 (± 8.6) with an average BMI of 27.2
20 (± 5.2). Untargeted metabolomics profiling of the participants' fecal samples was conducted by
21 Metabolon, Inc., using mass spectrometry, measuring a total of 1116 metabolites, 866 of them with
22 known chemical identity. Among the metabolites identified, 570 were common and detected in at
23 least 80% of the samples, while 345 were detected in at least 20% but in less than 80% of all samples
24 (Fig 1a). The latter were analyzed as dichotomous traits (present/absent in a sample) and
25 metabolites measured in less than 20% of the samples were discarded from further analysis. 647 of
26 the 1116 measured metabolites were not detected in blood samples of the same individuals profiled
27 on the same platform (Fig 1b). This suggests that the fecal metabolome provides complementary
28 information to blood metabolomics. We did not find significant associations between 915 fecal
29 metabolites and age after correcting for multiple testing. However, a multivariate partial least
30 squares discriminant analysis incorporating all the common 570 metabolites could distinguish the
31 oldest decile (>75 years) from the youngest decile (<56 years) of the study population (AUC=0.71,
32 $p=6.8 \times 10^{-6}$, Fig 2b) and one metabolite, phytanate, was significantly different between the oldest
33 and youngest deciles ($p=5.0 \times 10^{-3}$) (Fig 2a), suggesting non-linear associations between the fecal
34 metabolome and age in line with previous reports on the effects of age on the gut microbiome^{9,10}.
35 BMI was associated with eight metabolites at an FDR (Benjamini-Hochberg) of 5%: five fecal lipids,
36 including arachidonate (β [95% CI] = 0.13 [0.07:0.19], $p=1.1 \times 10^{-5}$), the hemoglobin metabolite

1 bilirubin (β [95% CI] = 0.13 [0.06:0.19], $p=8.9\times 10^{-5}$), and two unknown metabolites (Supplementary
2 Table 2). We then looked for associations with visceral fat mass, a measure of abdominal obesity,
3 correcting for BMI, and found a total of 102 statistically significant associations (FDR<5%, 13 passing
4 Bonferroni correction), which together explain 28.4% of the observed total variance of visceral fat
5 ($p<2.2\times 10^{-16}$) (Supplementary Table 2). In contrast, we find only 8 metabolites associated with BMI,
6 which is an imprecise measure of adiposity and measures overall mass without distinction between
7 lean and fat mass¹¹. However, the gut microbiome is known to play a major role in fatty acid
8 metabolism and adiposity which may be better reflected by visceral fat measures^{12,13}. Emerging
9 evidence also suggests a role of the intestinal microbiota in visceral development by interacting with
10 dietary components¹⁴. We have previously shown strong associations between visceral fat mass and
11 the gut microbiome composition^{15,16}. The much larger number of fecal metabolite associations with
12 visceral fat than with BMI are consistent with these findings and highlight the strong influence of
13 metabolic processes in the gut influencing abdominal adiposity.

14 Visceral fat-associated metabolites were significantly enriched for amino acids (43 metabolites,
15 enrichment $p<2\times 10^{-4}$) but also included 14 fatty acids, including arachidonate ($\beta=5.07$ [2.55:7.59], $p=$
16 8.2×10^{-5}), 8 nucleotides, 6 sugars and 6 vitamins. The strong association between the fecal
17 metabolome and central obesity confirms hypotheses on the involvement of microbial amino acid
18 metabolism in obesity and suggests new mechanisms, such as microbial vitamin B metabolism. We
19 have previously found several microbe families associated with lower visceral fat mass¹⁵ and
20 reduced weight gain in germ-free mice receiving human fecal transplants¹⁷. By analyzing the fecal
21 metabolome, we found the abundance of the same families to be strongly associated with
22 decreased abundance of amino-acids (see below), suggesting that their association with visceral fat
23 may be mediated by the availability of amino acids (Fig 3). This may be due to increased utilization or
24 decreased production of amino acids by these bacteria, or the result of more complex host-microbe
25 interactions.

26 The gut microbiome is heritable^{17,18} and we found a heritable variance component for 210 OTUs,
27 which explained on average 22.7% of the observed total variance. To test whether host genetic also
28 influences the fecal metabolome we first estimated its heritability, taking advantage of the twin
29 structure in our data (Fig 4) using structural equation modelling (148 MZ pairs, 155 DZ pairs). For 428
30 metabolites the best fitting model contained a heritable variance component (A), which explained
31 on average 17.9% ($\pm 9.7\%$) of the metabolite variation. Long chain fatty acid-containing metabolites,
32 such as 1-palmitoyl-2-arachidonoyl-GPC ($H^2=60.7\%$ [95% CI 43.4:78.0]) and stearyl carnitine
33 ($H^2=54.3\%$ [36.4:72.3]), were amongst the most heritable metabolites. For 279 metabolites,

1 including the coffee-metabolite 5-acetylamino-6-amino-3-methyluracil (C=30.3% [20.0:40.6]), the
2 best fitting model was the CE model, where the common environment component (C) explained on
3 average 14.8% ($\pm 8.1\%$) of the variance. For the remaining 208 metabolites, the best fitting model
4 was the E model where the entire variation of the metabolite is due to individual differences such as
5 the microbiome or individual diet (Supplementary Table 2). We found a significantly stronger
6 environmental effect on lipids than other metabolites (enrichment p -value $< 2 \times 10^{-4}$).

7 We subsequently conducted GWAS for the 428 metabolites with a heritable component
8 (Supplementary Table 3) and identified three metabolites (the amino-acid 3-phenylpropionate and
9 two lipids eicosapentaenoate and 3-hydroxyhexanoate) significantly associated with genetic loci
10 after correcting for multiple testing ($p < 1.2 \times 10^{-10} = 5 \times 10^{-8} / 428$) (Table 1, Fig 5a). We also tested for
11 genetic associations of metabolites ratios, which can be better proxies for chemical reactions than
12 single metabolites¹⁹. After correcting for 31,226 tested ratios we found the ratio of 5-acetylamino-6-
13 amino-3-methyluracil and 1,3-dimethylurate was associated with a locus on chromosome 8
14 (rs35246381, $p = 7.0 \times 10^{-21}$, p -gain = 7.5×10^9) (Table 1, Fig 5b). We replicated our GWAS results in an
15 independent sample of 230 individuals. Out of the 4 loci we tested, only the metabolite ratio of 5-
16 acetylamino-6-amino-3-methyluracil and 1,3-dimethylurate was significantly associated in the
17 replication cohort ($p = 3.6 \times 10^{-10}$; meta-analysis $p = 3.3 \times 10^{-36}$). The two metabolites 5-acetylamino-6-
18 amino-3-methyluracil and 1,3-dimethylurate are products of caffeine metabolism²⁰. The associated
19 locus at the *NAT2* gene codes for a N-acetyltransferase, which catalyzes the degradation of caffeine
20 metabolites²¹ (Supplementary Figure 3). Associations of this locus with other caffeine-metabolites
21 (1-methylxanthine, 4-acetamidobutanoate and 1-methylurate) have been previously observed in
22 blood²² and urine²³ and likely reflect efficiency of the degradation of caffeine. We then explored if
23 there were any eQTLs or other functional variants in strong LD with the top SNP. Although we found
24 three eQTLs (rs11996129, rs1112005, rs1799930) for *NAT2*²⁴, these are only in weak LD ($r^2 < 0.16$)
25 with rs35246381²⁵ and the associations between these SNPs and the metabolite ratio is weaker than
26 that of the top SNP ($p = 3.6 \times 10^{-10}$ vs $p = 9.4 \times 10^{-7}$). The tissues where the expression of *NAT2* is highest,
27 after liver, are in the jejunal and colonic mucosa, duodenum colon and small intestine²⁶ (see URLs).
28 This is consistent with polymorphisms in the *NAT2* gene being associated with the concentration of
29 caffeine derived metabolites in feces. We explored the relationship between caffeine and the fecal
30 metabolites 5-acetylamino-6-amino-3-methyluracil and 1,3-dimethylurate and find that their ratio is
31 positively correlated with both coffee intake and serum caffeine levels (Supplementary Figure 3).
32 These genetic association data illustrate how part of the complex metabolism of caffeine takes place
33 in the intestine before reaching the liver and that the links between the host genetic makeup and
34 xenobiotic concentrations can be captured by fecal metabolites. In addition to caffeine, the *NAT2*

1 enzyme is also involved in metabolism of various xenobiotics and is therefore related to variance in
2 drug response and toxicity²⁷. There is work showing that the composition of the gut microbiome
3 regulates xenobiotic enzymes, for instance the expression of *NAT2* is 1.5 higher in germ free animals
4 than in the large intestine of control animals²⁸. Taken together with our results these data fit with a
5 picture of xenobiotic metabolism being regulated jointly by host genetic variation and gut
6 microbiome composition.

7 We then investigated the extent to which the fecal metabolome reflect metabolic processes of the
8 gut microbiome. We regressed metabolite levels against microbial diversity (quantified by the
9 Shannon index), and found that 575 metabolites across all pathways showed a significant association
10 with microbial diversity at a FDR of 5%, with 347 passing a Bonferroni correction. We estimated the
11 proportion of variance in each metabolite explained by microbiome composition using the
12 unweighted UniFrac beta-diversity metric, a measure of overall phylogenetic dissimilarity between
13 individuals' microbiota²⁹. We found that gut microbial composition explained a significant proportion
14 of the observed variance of 710 metabolites, on average 67.7% ($\pm 18.8\%$) of the observed variance,
15 ranging from 22.1% for 1-linolenoylglycerol to 100% for several amino acids (Supplementary Table
16 2). Amongst others, the microbiome explained a significant proportion of the variance of the 8 BMI-
17 related and 101 of the visceral fat-related metabolites. Xenobiotics showed the strongest
18 associations with microbial composition (enrichment p-value $< 1 \times 10^{-4}$), which explained the entire
19 observed variance for some of them including the B-vitamins nicotinate and pantothenate.

20 To explore the associations of the fecal metabolome with gut microbes at a finer taxonomic
21 resolution we regressed each metabolite against the 581 most abundant operational taxonomic
22 units (OTUs), adjusting for potential confounding factors including Shannon diversity. We found
23 42,645 significant associations of 907 different metabolites with 579 different OTUs after adjusting
24 for multiple testing (FDR $<5\%$). We also calculated associations of fecal metabolites with collapsed
25 taxonomical levels, ranging from genus to phylum level (Supplementary Table 4). 264 metabolites
26 were only associated with microbes at the OTU level, with the remainder also associating with
27 broader taxonomic groupings.

28 Lastly, to investigate the connectivity of the fecal metabolome with microbes, we calculated a
29 Gaussian graphical model (GGM) combining 435 common metabolites with a known chemical
30 identity with 241 OTUs with complete taxonomy assignment to at least genus level. The resulting
31 model consists of 2553 independent associations, 1035 of them amongst metabolites, 946 amongst
32 microbes and 572 connecting metabolites and microbes (Supplementary Table 5 and Figure 4). All
33 but 9 variables form one connected component. We detect 19 clusters in the largest component, 9

1 of which contain both microbes and fecal metabolites and 10 consist of metabolites only.
2 Xenobiotics have higher node degrees ($p < 3 \times 10^{-4}$) and were more densely connected with OTUs
3 ($p < 2.4 \times 10^{-3}$). Our model demonstrates the high degree of interrelatedness between gut microbiome
4 and fecal metabolome, despite the very different technologies used.

5 In conclusion, although state of the art metagenomic sequencing allows quantitative and functional
6 annotation of species and microbial pathways³⁰, 16S sequencing data has limitations including the
7 lack of quantitative functional annotations. Fecal metabolomics provides a complimentary functional
8 readout of microbial metabolism as well as its interaction with host and environmental factors. We
9 have focused on the relationship between fecal metabolites and host and microbial genetics. Future
10 studies should further investigate the influence of environmental factors, particularly nutrition and
11 consider the influence of stool frequency/type on fecal metabolite measurements, as these are
12 known to be associated with fecal microbiome composition^{31,32}. The fecal metabolome can thus be
13 used as intermediate phenotype that promotes microbial effects on the host and vice-versa. Using
14 associations with obesity, we demonstrate that fecal metabolomics are a useful tool to complement
15 future genomic and microbiome studies.

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25 **Author Contributions**

26 Conceived and designed the experiments: AT, TDS, CM. Performed the experiments: RPM. Analyzed
27 the data: JZ, MJ, TL, CM. Contributed reagents/materials/analysis tools: MM, GK, TL, AT, KS, CJS, JTB,
28 AMV. Wrote the manuscript: JZ, MJ, RPM, AMV, TDS, CM. All authors revised the manuscript.

1 Competing financial interests

2 RPM is employee of Metabolon, Inc. TL and AT were employees of HLI, Inc. at the time this work was
3 conducted. TDS is co-founder of MapMyGut Ltd. All other authors declare no competing financial
4 interests.

5 URLs

6 http://bgee.org/?page=gene&gene_id=ENSG00000156006

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1 **Figure Legends**

2 ***Figure 1. Number of measured fecal metabolites.***

3 1116 metabolites were detected in 786 fecal samples. (a) 570 of those were detected in at least 80%
4 of all samples and 345 were detected in less than 80% but more than 20% of all samples. The first
5 were analyzed continuously, while we dichotomized the latter in present/absent. 210 metabolites
6 that were present in less than 20% of the samples were excluded from further analysis. (b) 469
7 metabolites were observed in both, fecal and blood samples of the sample individuals, while 647
8 metabolites are unique to feces. 499 of these 647 metabolites were observed in at least 20% of the
9 fecal samples.

10 ***Figure 2. Association of the fecal metabolome with age.***

11 We compared the fecal metabolome between the oldest (>75 yrs., n=79) and youngest decile (<56
12 yrs., n=80) of the study population. (a) First, we investigated the age effect for all metabolites
13 individually using logistic regression models and found one metabolite, phytanate, significantly
14 different between the youngest and the oldest decile of our data. (b) Then, we fitted a multivariate
15 PLS-DA model to distinguish the older (red) from the younger (blue) group. We estimated the area
16 under the receiver operations curve (AUC) at 0.71 ($p=6.8 \times 10^{-6}$) in a 10-fold cross-validation.

17 ***Figure 3. Associations of fecal metabolites with gut microbiome correspond to microbial 18 effect on visceral fat.***

19 Visceral fat mass was significantly associated with 43 fecal amino acids (all positively) (n=647) and 32
20 OTUs (n=540) (6 positively in orange, 26 negatively in green). Red tiles indicate positive associations
21 between these metabolites and OTUs ($\beta > 0$) and blue tiles negative associations ($\beta < 0$); grey tiles
22 indicate non-significant associations (FDR > 5%). Microbial associations with fecal metabolites
23 correspond to their respective associations with visceral fat, indicating that the microbial metabolic
24 profile is more closely related to the host phenotype than taxonomy.

25 ***Figure 4. Intraclass correlation of fecal metabolites in MZ and DZ twins.***

26 The intraclass correlation coefficients (ICCs) were calculated from variance components of a one-
27 way analysis of variance separately for monozygotic (MZ, n=148 pairs) and dizygotic (DZ, n=155
28 pairs) twins for each metabolite. Positive values of their respective differences indicate more similar
29 metabolic profiles between MZ than DZ twins.

30 ***Figure 5. Host genetic influence on the fecal metabolome***

1 Genome-wide association studies were conducted for 428 heritable fecal metabolites and 31,226
 2 fecal metabolite ratios (n=739). P-values were calculated using the score test implemented in
 3 GEMMA. (a) The Manhattan plot illustrates the genetic associations of fecal metabolites in the
 4 discovery sample. The horizontal line indicates the Bonferroni cutoff of 1.2×10^{-10} . Three loci (red)
 5 pass the Bonferroni threshold. (b) The second Manhattan plot shows genetic associations with
 6 metabolite ratios in the discovery sample. The horizontal line indicates the Bonferroni cutoff of
 7 ($p < 1.6 \times 10^{-12}$). Two loci pass the threshold, however only the association with 1,3-dimethylurate / 5-
 8 acetylamino-6-amino-3-methyluracil ($p = 6.2 \times 10^{-21}$, red) passed filtering by p-gain ($p\text{-gain} > 8.9 \times 10^5$)
 9 and thus is considerably stronger than the association of each individual metabolite. Boxplots, QQ-
 10 plots, and regional association plots for each of the four loci are shown in Supplementary Figures 1,
 11 2 and Supplementary Data 1.

12 Tables

13 **Table 1. Genetic associations of fecal metabolites**

14 Three metabolites and one metabolite ratio significantly associated with genetic loci in the discovery
 15 cohort (n=739). We report their respective heritabilities (H^2), the associated variant along with its
 16 chromosomal position and the nearest gene, and the effect (\pm its standard error). P-values in the
 17 discovery and replication cohorts were calculated using the two-sided score test implemented in
 18 GEMMA and combined using fixed-effects inverse variance meta-analysis. The p-gain describes the
 19 strength of the association of the metabolite ratio relative to the associations of each individual
 20 metabolite.

Metabolite	H2	MAF	SNP	Gene	Discovery			Replication		Meta-Analysis	
					Effect	P	p-gain	Effect	P	Effect	P
1,3-dimethylurate/ 5-acetylamino-6-amino-3-methyluracil	40.2%	24.7%	rs35246381 (8:1841502)	NAT2	-0.17 \pm 0.02	7.0×10^{-21}	7.5×10^9	-0.22 \pm 0.03	3.5×10^{-10}	-0.18 \pm 0.01	3.3×10^{-36}
3-hydroxyhexanoate	20.7%	3.7%	rs62311177 (4:92962004)	GRID2	0.41 \pm 0.06	2.9×10^{-12}		0.07 \pm 0.09	0.429	0.32 \pm 0.05	3.0×10^{-11}
eicosapentaenoate (EPA; 20:5n3)	16.1%	1.4%	rs149572251 (20:34322936)	ITCH	1.45 \pm 0.21	3.4×10^{-11}		-0.23 \pm 0.38	0.544	1.06 \pm 0.18	6.8×10^{-9}
3-phenylpropionate (hydrocinnamate)	23.9%	1.6%	rs58539483 (11:28830501)	AC090 833.1	-1.31 \pm 0.19	3.6×10^{-11}		-0.39 \pm 0.22	0.076	-0.92 \pm 0.14	1.5×10^{-10}

21

22

1 **Online Methods**

2 ***Study population***

3 Study participants were 786 twins from the TwinsUK cohort. TwinsUK (a national twin registry) has
4 been recruited since 1992 through media campaigns and is representative of the population of the
5 UK in terms of life style³³. The study population is predominantly female (93.4% females), with an
6 average age of 65.2 (± 7.6) and an average of BMI of 26.1 (± 4.7). Ethical approval by St Thomas'
7 Hospital ethics committee; all participants provided informed written consent.

8 Results of the genome-wide association study were replicated in an independent set of 230
9 individuals (98.3% female) from the TwinsUK study, aged 66.9 (± 8.6) and an average BMI of 27.2
10 (± 5.2) (Supplementary Table 1).

11 ***Data collection***

12 Sample collection, DNA extraction, and sequencing of the samples within this study has been
13 described previously^{17,18}. Briefly, the fecal samples were collected, refrigerated and kept in ice packs
14 until they were frozen at -80°C (mostly within 24 hours from collection) before further processing. A
15 number of participants (15%) sent their samples by post.

16 ***Metabolomics profiling***

17 Metabolite concentrations were measured from fecal samples by Metabolon Inc., Durham, USA,
18 using an untargeted LC/MS platform as previously described^{22,34}.

19 **Sample preparation for global metabolomics**

20 Samples were stored at -80°C until processed. Sample preparation was carried out as described
21 previously³⁴ at Metabolon, Inc. Lyophilized feces samples were extracted at a constant per mass
22 basis. Briefly, recovery standards were added prior to the first step in the extraction process for
23 quality control purposes. To remove protein, dissociate small molecules bound to protein or trapped
24 in the precipitated protein matrix, and to recover chemically diverse metabolites, proteins were
25 precipitated with methanol under vigorous shaking for 2 min (Glen Mills Genogrinder 2000) followed
26 by centrifugation. The resulting extract was divided into five fractions: 1) acidic positive ion
27 conditions, chromatographically optimized for more hydrophilic compounds; 2) acidic positive ion
28 conditions, chromatographically optimized for more hydrophobic compounds; 3) basic negative ion
29 optimized conditions using a separate dedicated C18 column; 4) negative ionization following elution
30 from a HILIC column; 5) reserved for backup.

1 Three types of controls were analyzed in concert with the experimental samples: a pooled sample
2 generated from a small portion of each experimental sample of interest served as a technical
3 replicate throughout the platform run; extracted water samples served as process blanks; and a
4 cocktail of standards spiked into every analyzed sample allowed instrument performance
5 monitoring. Instrument variability was determined by calculating the median relative standard
6 deviation (RSD) for the standards that were added to each sample prior to injection into the mass
7 spectrometers (median RSDs were determined to be 5%; n = 31 standards). Overall process
8 variability was determined by calculating the median RSD for all endogenous metabolites (i.e., non-
9 instrument standards) present in 90% or more of the pooled technical replicate samples (median
10 RSD = 12%, n = 832 metabolites). Experimental samples and controls were randomized across the
11 platform run.

12 **Mass spectrometry analysis**

13 Extracts were subjected to UPLC-MS/MS³⁵. The chromatography was standardized and, once the
14 method was validated, no further changes were made. As part of Metabolon's general practice, all
15 columns were purchased from a single manufacturer's lot at the outset of experiments. All solvents
16 were similarly purchased in bulk from a single manufacturer's lot in sufficient quantity to complete
17 all related experiments. For each sample, vacuum-dried samples were dissolved in injection solvent
18 containing eight or more injection standards at fixed concentrations, depending on the platform.
19 The internal standards were used both to assure injection and chromatographic consistency.
20 Instruments were tuned and calibrated for mass resolution and mass accuracy daily.

21 All methods utilized a Waters ACQUITY UPLC and a Thermo Scientific Q-Exactive high
22 resolution/accurate mass spectrometer interfaced with a heated electrospray ionization (HESI-II)
23 source and Orbitrap mass analyzer operated at 35,000 mass resolution. The sample extract was
24 dried then reconstituted in solvents compatible to each of the four methods. Each reconstitution
25 solvent contained a series of standards at fixed concentrations to ensure injection and
26 chromatographic consistency. One aliquot was analyzed using acidic positive ion conditions,
27 chromatographically optimized for more hydrophilic compounds. In this method, the extract was
28 gradient eluted from a C18 column (Waters UPLC BEH C18-2.1x100 mm, 1.7 μ m) using water and
29 methanol, containing 0.05% perfluoropentanoic acid (PFPA) and 0.1% formic acid (FA). Another
30 aliquot was also analyzed using acidic positive ion conditions; however, it was chromatographically
31 optimized for more hydrophobic compounds. In this method, the extract was gradient eluted from
32 the same aforementioned C18 column using methanol, acetonitrile, water, 0.05% PFPA and 0.01%
33 FA and was operated at an overall higher organic content. Another aliquot was analyzed using basic

1 negative ion optimized conditions using a separate dedicated C18 column. The basic extracts were
2 gradient eluted from the column using methanol and water, however with 6.5mM ammonium
3 bicarbonate at pH 8. The fourth aliquot was analyzed via negative ionization following elution from a
4 HILIC column (Waters UPLC BEH Amide 2.1x150 mm, 1.7 μ m) using a gradient consisting of water
5 and acetonitrile with 10mM ammonium formate, pH 10.8. The MS analysis alternated between MS
6 and data-dependent MSn scans using dynamic exclusion. The scan range varied slightly between
7 methods but covered 80-1000 m/z.

8 **Compound identification, quantification, and data curation**

9 Metabolites were identified by automated comparison of the ion features in the experimental
10 samples to a reference library of chemical standard entries that included retention time, molecular
11 weight (m/z), preferred adducts, and in-source fragments as well as associated MS spectra and
12 curated by visual inspection for quality control using software developed at Metabolon^{35,36}.
13 Identification of known chemical entities is based on comparison to metabolomic library entries of
14 purified standards. Commercially available purified standard compounds have been acquired and
15 registered into LIMS for distribution to the various UPLC-MS/MS platforms for determination of their
16 detectable characteristics. Additional mass spectral entries have been created for structurally
17 unnamed biochemicals, which have been identified by virtue of their recurrent nature (both
18 chromatographic and mass spectral). These compounds have the potential to be identified by future
19 acquisition of a matching purified standard or by classical structural analysis. Peaks were quantified
20 using area-under-the-curve. Raw area counts for each metabolite in each sample were normalized to
21 correct for variation resulting from instrument inter-day tuning differences by the median value for
22 each run-day, therefore, setting the medians to 1.0 for each run. This preserved variation between
23 samples but allowed metabolites of widely different raw peak areas to be compared on a similar
24 graphical scale.

25 A total of 1116 different metabolites were measured in the 786 fecal samples, of which 210 were
26 observed in less than 20% of the samples and thus excluded from further analysis due to lack of
27 power. 345 metabolites were observed in more than 20% but less than 80% of the samples and were
28 thus analyzed qualitatively as dichotomous traits (observed in a sample vs. not observed). The
29 remaining 570 metabolites, which were observed in at least 80% of all samples, were scaled by run-
30 day medians, log-transformed and scaled to uniform mean 0 and standard deviation 1 and analyzed
31 quantitatively (Fig 1). Metabolite ratios were calculated from the run-day median normalized
32 metabolite levels and subsequently log-transformed and scaled to a mean of 0 and standard
33 deviation of 1.

1 We analyzed effects of sample storage time (i) in the fridge before samples were frozen and (ii) in
2 the freezer before being further analyzed. To this end we regressed metabolite concentrations
3 against storage times. After correcting for multiple testing, we found significant storage effects on 7
4 metabolites (FDR < 0.05) (Supplementary Figure 5). We, thus, corrected all further analyses for both
5 storage time in the fridge and freezer, to avoid spurious results. Despite correcting all models for the
6 storage time, we cannot ultimately eliminate a potential confounding effect due to storage time and
7 future studies should investigate its influence on fecal metabolites.

8 ***Microbial sequencing***

9 16S rRNA was extracted from fecal samples, PCR amplified, barcoded per sample and sequenced
10 using the Illumina MiSeq, as previously described¹⁸. DNA was isolated from the samples using the
11 PowerSoil kit. The V4 region of bacterial 16S rRNA gene sequences was PCR amplified using the 515F
12 and 806R primers³⁷. Reads were barcoded per sample and combined for multiplexed sequencing
13 using the Illumina MiSeq to generate 250bp paired-end reads. Paired-end reads were merged with a
14 minimum overlap of 200nt using fastq join within QIIME, which was also used to de-multiplex the
15 sequence data.

16 Pre-processing of sequences and their clustering to operational taxonomic units followed the
17 Sumaclus de novo approach as previously described for a subset of samples from³⁸. In brief, 16S
18 sequence reads for all samples were filtered to remove chimeric sequences produced during PCR,
19 using USEARCH for chimera identification³⁹. Remaining reads were then collapsed to operational
20 taxonomic units (OTUs) using the Sumaclus algorithm for de novo clustering in QIIME 1.9.0, this
21 method selected as de novo OTUs more accurately group reads at the 97% level⁴⁰, and Sumaclus
22 was the one of the best performing greedy clustering algorithms in previous comparisons³⁸.
23 Taxonomy was assigned to OTUs by alignment of representative sequences to the Greengenes 13_8
24 database with a 97% similarity threshold using UCLUST.

25 De novo clustering across all samples within the TwinsUK cohort produced ~300,000 OTUs after
26 singleton removal; however, the majority of these were of low abundance and found in very few
27 samples (table density 0.002). The OTU table was subset, discarding samples with fewer than 10,000
28 reads and OTUs that were not found in at least 25% of these samples. This resulted in a table of 581
29 OTUs (table density 0.547) (Supplementary Table 7). OTU counts were converted to relative
30 abundances (over all reads in each sample), a pseudo count of 10^{-6} was added to account for zero
31 counts, and the abundances were log transformed. The transformed abundances were then used as
32 the response in models with sequencing run, sequencing depth, individual who extracted the DNA,
33 individual who loaded the DNA and sample collection method as technical covariates. The residuals

1 of these models were then used in downstream analysis of OTU abundances. The same
2 normalization and control for technical effects was also carried out on taxonomic abundances
3 collapsed at each taxonomic level. Collapsed taxonomies included counts from all OTUs. Shannon
4 alpha diversity was also calculated from the complete OTU table. Each sample was rarefied to a
5 depth of 10,000 reads 50 times. Diversity metrics were calculated for each sample in each table and
6 the mean across all tables taken as the final measure. Beta diversity was calculated from all OTUs
7 excluding singletons using the unweighted UniFrac algorithm²⁹.

8 ***Visceral fat measurements***

9 Measurements of whole body composition were performed using the DXA fan-beam technology
10 (Hologic QDR; Hologic, Inc., Waltham, MA, USA) as previously described⁴¹. Briefly, subjects were
11 positioned in a standardized manner, in a supine position with the clothes removed and wearing a
12 gown. The DXA machine was calibrated on a daily basis using a spine phantom and on a weekly basis
13 using a step phantom, as suggested by the manufacturer. The scans were analyzed using the QDR
14 System Software Version 12.6.

15 Regions of interest were defined manually by the same operator following the SOP, which was
16 derived from the manufacturer's guidelines. The lower horizontal margins were placed above the
17 pelvis, just above the iliac crest, while the upper horizontal margins were placed at the half of the
18 distance between the acromions and the iliac crest. The vertical margins were adjusted just at the
19 external borders of the body so that all the soft tissue was included.

20 This DXA-based measurement of visceral fat has been validated against VF measured by CT scan and
21 shown to be reliable and reproducible⁴².

22 ***Statistical analysis***

23 To assess the influence of age and gender on metabolite measurements, we regressed all
24 metabolites against age and gender, correcting for family structure as random intercept using the R
25 package lme4⁴³. Moreover, we calculated linear and logistic regression models, respectively, to
26 assess the relationship of the fecal metabolome with obesity, measured as BMI and visceral fat mass
27 (measured by double X-ray absorptiometry), respectively adjusting for age, sex, storage time and
28 family as random intercept. Visceral fat measurements were available for 647 individuals. The
29 following regression models were used:

30 a) Associations of metabolites with age and gender

31 Metabolite ~ **age** + **gender** + storage time (fridge) + storage time (freezer) + (1 |family)

32 b) Associations with BMI

1 **BMI** ~ Metabolite + age + sex + storage time (fridge) + storage time (freezer) + (1 | family)

2 c) Associations with visceral fat mass

3 **visceral fat** ~ Metabolite + age + sex + BMI + height + height² + storage time (fridge) +
4 storage time (freezer) + (1 | family)

5 d) Associations with microbial alpha diversity

6 Metabolite ~ **microbiome diversity** + age + sex + BMI + storage time (fridge) + storage time
7 (freezer) + (1 | family)

8 e) Associations with OTUs and taxa

9 Metabolite ~ **microbe (OTU/taxa)** + microbiome diversity + age + sex + BMI + storage time
10 (fridge) + storage time (freezer) + (1 | family)

11 **Partial Least Squares Discriminant Analysis**

12 We used a partial least squares discriminant analysis (PLD-DA) to investigate global differences
13 between the metabolic profiles of the youngest and oldest decile of our study population. To this
14 end, all missing values were imputed using the mice package⁴⁴ and metabolite levels were adjusted
15 for storage times and family structure by linear mixed models. Residuals of these models were then
16 used to train a PLSDA model as implemented in the mixOmics package⁴⁵. The predictive performance
17 was assessed using a 10-fold cross validation.

18 **Heritability analysis**

19 We used structural equation modelling to estimate the genetic (A), the common environment (C)
20 and the unique environment (E) components of the total variance for each metabolite⁴⁶. To this end
21 we used the R package mets (version 1.1.1) to fit maximum-likelihood models, adjusting for age and
22 sex and storage time. For each metabolite we fitted four models, estimating (1) A, C and E
23 components (2) A and E components, (3) C and E components and (4) E component only. The best
24 model was selected by minimizing the Akaike Information Criterion (AIC). In case of dichotomous
25 metabolite abundances, a liability-threshold model was fitted using the bptwin function of the mets
26 package. Additionally, intraclass correlation coefficients (ICCs) were calculated from variance
27 components of a one-way analysis of variance for MZ and DZ twins individually, using the ICC
28 package⁴⁷.

29 **Genome-wide association study**

30 Genetic variation was measured using whole genome sequencing, as previously described⁴⁸. In brief,
31 samples were sequenced using the Illumina HiSeqX sequencer with 150 base paired reads. Reads
32 were then mapped to hg38 genome using ISIS Analysis Software (v. 2.5.26.13; Illumina) and missing
33 genotypes were filled in with reference homozygous calls⁴⁹. Genomes with a ratio of heterozygous to

1 homozygous variants higher than 2.5 were excluded leaving 739 individuals for further analysis. A
2 cohort-based high confidence region of the genome was constructed by concatenating positions
3 with greater than 90% "PASS" call rate using data from 3 sets of 100 randomly selected genomes.
4 Variants outside of the high confidence region and duplicated variants were removed. We moreover
5 excluded 273,355 variants with Hardy-Weinberg $p < 10^{-6}$, calculated from 420 unrelated individuals,
6 leaving 8,208,502 biallelic SNPs and 1,408,051 InDels with minor allele frequency higher than 1% for
7 further analysis.

8 We fitted linear mixed models to test for associations of heritable fecal metabolites with genetic
9 variants, correcting for age, sex, storage time using GEMMA⁵⁰ incorporating data from 739
10 individuals with fecal metabolomics and sequencing data. The twin structure of our data was taken
11 into account by adjusting for the family relatedness using the sample kinship matrix. The score test
12 implemented in GEMMA was used to assess significance of the associations. We considered
13 metabolite-associations with a p-value lower than 1.2×10^{-10} significant, which corresponds to a
14 genome-wide significance cut-off of 5.0×10^{-8} , corrected for 428 tested metabolites. Additionally, we
15 tested for genetic associations with all pairwise metabolite ratios of fecal metabolites with known
16 chemical identity and a heritable variance component. We used the p-gain statistic to assess
17 independence of the single metabolites¹⁹. The p-gain is defined as the minimal p-value of the
18 associations of either of the single metabolites divided by the p-value of the metabolite ratio. A high
19 p-gain statistic indicates that the ratio carries additional information compared to individual
20 metabolites. We considered metabolite ratios with $p < 1.6 \times 10^{-12}$ ($= 5 \times 10^{-8} / 31,226$ metabolite ratios)
21 and $p\text{-gain} > 3.1 \times 10^5$ ($= 10 \times 31,226$ metabolite ratios) significant.

22 Four genome-wide significant associations were replicated in 230 individuals of the TwinsUK study,
23 adjusting for the same confounding factors. Results of discovery and replication were combined
24 using fixed-effects inverse variance meta-analysis.

25 **Associations of the fecal metabolome with the gut microbiome**

26 To assess associations of the fecal metabolome with the gut microbiome, we first regressed
27 metabolite concentrations against the Shannon alpha diversity, adjusting for age, sex, BMI, storage
28 time and family structure using 644 individuals with both fecal metabolomics and 16S sequencing
29 data available.

30 We then estimated the proportions of variance of each metabolite explained by the microbiome by
31 regressing the fecal metabolite concentration against the microbial beta-diversity. This technique is
32 commonly used to estimate heritability from genetic kinship matrices^{51,52}. To this end we calculated

1 a restricted maximum likelihood model (REML), regressing the metabolite level against the microbial
2 similarity, adjusting for age, sex, BMI and the storage time in fridge and freezer and technical
3 covariates (sequencing run, sequencing depth, individual who extracted the DNA, individual who
4 loaded the DNA and sample collection method) using the R package regress. The proportion of
5 variance explained by microbial similarity (M2) and its standard error were calculated from the
6 variance components using the R package gap⁵³ and p-values were calculated from the ratio of M2
7 over its standard error.

8 Next, we aimed to identify microbes and taxonomical units that are associated with metabolite
9 levels. To this end we regressed 581 inverse normalized operational taxonomic units (OTUs) against
10 all 915 metabolites, adjusting for age, sex, BMI, sample storage times, family structure and the alpha
11 diversity. Benjamini-Hochberg correction was applied to account for multiple testing. We further
12 calculated associations at different taxonomical units, from genus to phylum level.

13 Lastly, to assess multivariate dependencies between the fecal metabolome and the microbiome, we
14 inferred a graphical model combining 423 metabolites with known chemical identity that were
15 observed in at least 80% of the samples with 241 OTUs that were assigned complete taxonomy at
16 least to the genus level. Sparse graphical models were inferred using the GeneNet package⁵⁴ and
17 edges with false discovery rate < 0.05 were included in the model. We used the Fruchterman-
18 Reingold algorithm⁵⁵ to determine an unbiased graph layout and identified network modules by
19 optimizing the modularity score as implemented in the igraph package⁵⁶.

20 **Pathway enrichment**

21 We used pathway annotation as provided by Metabolon for pathway enrichment using the page
22 algorithm. Enrichment p-values were estimated using permutation tests with 10,000 random
23 permutations as implemented in the R-package piano⁵⁷.

24 **Graphical model inference**

25 To assess multivariate dependencies between the fecal metabolome and the microbiome we
26 inferred a graphical model combining 435 metabolites with known chemical identity that were
27 observed in at least 80% of the samples with 241 OTUs that were annotated at least down to the
28 genus level. To obtain a full data matrix we first imputed missing metabolite levels using mice⁴⁴. A
29 sparse graphical models was inferred using the GeneNet algorithm⁵⁴ selecting edges with FDR < 0.05.
30 We used the Fruchterman-Reingold algorithm⁵⁵ to determine an unbiased graph layout and
31 identified network modules by optimizing the modularity score as implemented in the igraph
32 package⁵⁶. For visualization purposes, we collapsed all metabolites of the same pathway to one

1 node, which was connected to all neighbors of all its members. Microbes were collapsed by family.
2 For both the full and the collapsed network, we calculated several centrality measures of nodes,
3 including node degrees, as number of neighbors, clustering coefficients, as proportion of neighbors
4 that are connected, and betweenness centralities, as proportion of shortest paths incorporating a
5 node.

6 **Data availability**

7 16S sequencing data used for this study is deposited in the European Nucleotide Archive
8 (ERP015317). All other TwinsUK data are available upon request on the department website
9 (<http://www.twinsuk.ac.uk/data-access/accessmanagement/>).

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- 23

Variance Components

ID	Metabolite	Pathway	n	RSD	A	C	E
M38665	(R)-salsolinol	Amino Acid	98%	13.5	0.00 [0.00:0.00]	0.10 [-0.02:0.21]	0.90 [0.79:1.02]
M48114	1-methylguanidine	Amino Acid	100%	6.7	0.15 [0.01:0.29]	0.00 [0.00:0.00]	0.85 [0.71:0.99]
M43831	1-methylhistamine	Amino Acid	26%	24.5	0.02 [-0.24:0.28]	0.00 [0.00:0.00]	0.98 [0.72:1.24]
M30460	1-methylhistidine	Amino Acid	46%	41.7	0.06 [-0.17:0.29]	0.00 [0.00:0.00]	0.94 [0.71:1.17]
M32350	1-methylimidazoleacetate	Amino Acid	86%	8	0.00 [0.00:0.00]	0.16 [0.04:0.29]	0.84 [0.71:0.96]
M20703	2,3-dimethylsuccinate	Amino Acid	100%	10.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35632	2-(4-hydroxyphenyl)propionate	Amino Acid	28%		0.00 [0.00:0.00]	0.26 [0.07:0.45]	0.74 [0.55:0.93]
M06146	2-aminoadipate	Amino Acid	98%	15.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42374	2-aminobutyrate	Amino Acid	97%	8.2	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M38109	2-aminophenol	Amino Acid	100%	10.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M36746	2-hydroxy-3-methylvalerate	Amino Acid	95%	10.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52281	2-hydroxybutyrate/2-hydroxyisobutyrate	Amino Acid	99%	8.5	0.00 [0.00:0.00]	0.14 [0.03:0.26]	0.86 [0.74:0.97]
M53229	2-methylserine	Amino Acid	32%		0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M47709	2-oxoarginine*	Amino Acid	50%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M44577	2-pentanamido-3-phenylpropanoic acid	Amino Acid	96%	5.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35635	3-(3-hydroxyphenyl)propionate	Amino Acid	99%	6.2	0.17 [0.04:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.96]
M32197	3-(4-hydroxyphenyl)lactate	Amino Acid	100%	5.7	0.00 [0.00:0.00]	0.11 [-0.01:0.22]	0.89 [0.78:1.01]
M39587	3-(4-hydroxyphenyl)propionate	Amino Acid	96%	8.3	0.22 [0.07:0.37]	0.00 [0.00:0.00]	0.78 [0.63:0.93]
M01413	3-hydroxyphenylacetate	Amino Acid	76%	10.8	0.05 [-0.23:0.32]	0.00 [0.00:0.00]	0.95 [0.68:1.23]
M44526	3-methyl-2-oxobutyrate	Amino Acid	87%	14.2	0.34 [0.19:0.49]	0.00 [0.00:0.00]	0.66 [0.51:0.81]
M15676	3-methyl-2-oxovalerate	Amino Acid	97%	11.5	0.00 [0.00:0.00]	0.30 [0.20:0.41]	0.70 [0.59:0.80]
M38667	3-methylglutaconate	Amino Acid	74%	16.8	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15677	3-methylhistidine	Amino Acid	85%	16	0.14 [-0.02:0.30]	0.00 [0.00:0.00]	0.86 [0.70:1.02]
M15749	3-phenylpropionate (hydrocinnamate)	Amino Acid	100%	6.7	0.24 [0.11:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.89]
M47089	3-sulfo-L-alanine	Amino Acid	97%	6.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01558	4-acetamidobutanoate	Amino Acid	100%	14.7	0.13 [-0.00:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.00]
M15681	4-guanidinobutanoate	Amino Acid	100%	4.1	0.13 [0.00:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.00]
M36770	4-hydroxycinnamate	Amino Acid	84%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40499	4-hydroxyglutamate	Amino Acid	58%		0.00 [0.00:0.00]	0.03 [-0.15:0.21]	0.97 [0.79:1.15]
M00541	4-hydroxyphenylacetate	Amino Acid	86%	22.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01669	4-hydroxyphenylpyruvate	Amino Acid	94%	17.9	0.25 [0.11:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.89]
M32349	4-imidazoleacetate	Amino Acid	98%	6.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M22116	4-methyl-2-oxopentanoate	Amino Acid	97%	10	0.00 [0.00:0.00]	0.25 [0.14:0.36]	0.75 [0.64:0.86]
M40732	4-methylthio-2-oxobutanoate	Amino Acid	48%	27.9	0.00 [0.00:0.00]	0.37 [0.21:0.53]	0.63 [0.47:0.79]
M18319	5-aminovalerate	Amino Acid	100%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00437	5-hydroxyindoleacetate	Amino Acid	39%		0.35 [0.12:0.57]	0.00 [0.00:0.00]	0.65 [0.43:0.88]
M15685	5-hydroxylysine	Amino Acid	52%	9.2	0.00 [-0.23:0.23]	0.00 [0.00:0.00]	1.00 [0.77:1.23]
M01494	5-oxoproline	Amino Acid	100%	4.4	0.13 [-0.01:0.28]	0.00 [0.00:0.00]	0.87 [0.72:1.01]
M43255	N-acetyl-1-methylhistidine*	Amino Acid	64%	27.2	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M43256	N-acetyl-3-methylhistidine*	Amino Acid	74%	14.4	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35665	N-acetyl-aspartyl-glutamate (NAAG)	Amino Acid	29%		0.00 [0.00:0.00]	0.09 [-0.11:0.29]	0.91 [0.71:1.11]
M43530	N-acetyl-cadaverine	Amino Acid	100%	4.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01585	N-acetylalanine	Amino Acid	100%	9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33953	N-acetylarginine	Amino Acid	100%	4.4	0.00 [0.00:0.00]	0.17 [0.06:0.28]	0.83 [0.72:0.94]

M33942	N-acetylasparagine	Amino Acid	100%	10.8	0.00 [0.00:0.00]	0.09 [-0.02:0.20]	0.91 [0.80:1.02]
M22185	N-acetylaspartate (NAA)	Amino Acid	100%	19.1	0.00 [0.00:0.00]	0.15 [0.04:0.26]	0.85 [0.74:0.96]
M48434	N-acetylcitrulline	Amino Acid	87%	9.1	0.00 [0.00:0.00]	0.14 [0.01:0.27]	0.86 [0.73:0.99]
M01586	N-acetylcysteine	Amino Acid	89%	23	0.15 [-0.02:0.32]	0.00 [0.00:0.00]	0.85 [0.68:1.02]
M15720	N-acetylglutamate	Amino Acid	100%	4.3	0.23 [0.10:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.90]
M33943	N-acetylglutamine	Amino Acid	99%	12.6	0.18 [0.05:0.31]	0.00 [0.00:0.00]	0.82 [0.69:0.95]
M27710	N-acetyl glycine	Amino Acid	100%	6.7	0.00 [0.00:0.00]	0.09 [-0.02:0.21]	0.91 [0.79:1.02]
M48679	N-acetylhistamine	Amino Acid	71%	5.8	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33946	N-acetylhistidine	Amino Acid	100%	4.7	0.19 [0.05:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.95]
M33967	N-acetylisoleucine	Amino Acid	100%	5.6	0.15 [0.01:0.29]	0.00 [0.00:0.00]	0.85 [0.71:0.99]
M48757	N-acetylkynurenine (2)	Amino Acid	36%		0.21 [-0.03:0.45]	0.00 [0.00:0.00]	0.79 [0.55:1.03]
M01587	N-acetyl leucine	Amino Acid	100%	6.6	0.00 [0.00:0.00]	0.13 [0.02:0.24]	0.87 [0.76:0.98]
M01589	N-acetylmethionine	Amino Acid	100%	6.3	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M45428	N-acetylmethionine sulfoxide	Amino Acid	100%	6.6	0.16 [0.03:0.29]	0.00 [0.00:0.00]	0.84 [0.71:0.97]
M33950	N-acetylphenylalanine	Amino Acid	100%	6.9	0.00 [0.00:0.00]	0.12 [0.00:0.23]	0.88 [0.77:1.00]
M34387	N-acetylproline	Amino Acid	100%	10.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37496	N-acetylputrescine	Amino Acid	100%	7.2	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M37076	N-acetylserine	Amino Acid	100%	7.7	0.00 [0.00:0.00]	0.10 [-0.01:0.21]	0.90 [0.79:1.01]
M01500	N-acetylserotonin	Amino Acid	76%	24.3	0.03 [-0.22:0.29]	0.00 [0.00:0.00]	0.97 [0.71:1.22]
M48187	N-acetyltaurine	Amino Acid	51%	9	0.00 [0.00:0.00]	0.23 [0.06:0.41]	0.77 [0.59:0.94]
M33939	N-acetylthreonine	Amino Acid	90%	39.8	0.12 [-0.03:0.27]	0.00 [0.00:0.00]	0.88 [0.73:1.03]
M33959	N-acetyltryptophan	Amino Acid	100%	6.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32390	N-acetyltyrosine	Amino Acid	100%	6.4	0.00 [0.00:0.00]	0.16 [0.05:0.28]	0.84 [0.72:0.95]
M01591	N-acetylvaline	Amino Acid	98%	8.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32984	N-alpha-acetylornithine	Amino Acid	100%	4.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52340	N-carbamoylalanine	Amino Acid	95%	12.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38696	N-carbamoylsarcosine	Amino Acid	97%	19	0.00 [0.00:0.00]	0.17 [0.05:0.28]	0.83 [0.72:0.95]
M43249	N-delta-acetylornithine*	Amino Acid	100%	5.1	0.10 [-0.03:0.24]	0.00 [0.00:0.00]	0.90 [0.76:1.03]
M02829	N-formylmethionine	Amino Acid	99%	7.4	0.20 [0.07:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.93]
M48433	N-formylphenylalanine	Amino Acid	99%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37069	N-methylalanine	Amino Acid	98%	13.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M31532	N-methylglutamate	Amino Acid	86%	22.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40006	N-methylhydantoin	Amino Acid	32%		0.00 [0.00:0.00]	0.07 [-0.13:0.26]	0.93 [0.74:1.13]
M42999	N-methylphenylalanine	Amino Acid	77%	7.1	0.15 [-0.12:0.42]	0.00 [0.00:0.00]	0.85 [0.58:1.12]
M37431	N-methylproline	Amino Acid	100%	4.6	0.23 [0.10:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.90]
M42989	N-methyltaurine	Amino Acid	55%	31.8	0.21 [-0.02:0.43]	0.00 [0.00:0.00]	0.79 [0.57:1.02]
M37456	N-methyltryptophan	Amino Acid	69%	12.9	0.00 [0.00:0.00]	0.15 [-0.04:0.34]	0.85 [0.66:1.04]
M43586	N-monomethylarginine	Amino Acid	22%		0.30 [0.04:0.55]	0.00 [0.00:0.00]	0.70 [0.45:0.96]
M42993	N-propionylalanine	Amino Acid	49%	31.5	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M46410	N-trimethyl 5-aminovalerate	Amino Acid	100%	4.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52987	N1,N12-diacetylspermine	Amino Acid	50%	20.7	0.28 [0.06:0.50]	0.00 [0.00:0.00]	0.72 [0.50:0.94]
M43591	N2,N5-diacetylornithine	Amino Acid	70%	28.8	0.00 [0.00:0.00]	0.12 [-0.07:0.31]	0.88 [0.69:1.07]
M48455	N2,N6-diacetyllysine	Amino Acid	82%	18.8	0.00 [0.00:0.00]	0.20 [0.07:0.32]	0.80 [0.68:0.93]
M36751	N2-acetyllysine	Amino Acid	100%	3.5	0.00 [0.00:0.00]	0.12 [0.01:0.23]	0.88 [0.77:0.99]
M01498	N6,N6,N6-trimethyllysine	Amino Acid	97%	11.3	0.00 [0.00:0.00]	0.12 [0.01:0.24]	0.88 [0.76:0.99]
M36752	N6-acetyllysine	Amino Acid	99%	12	0.00 [0.00:0.00]	0.13 [0.02:0.25]	0.87 [0.75:0.98]
M37458	N6-carboxyethyllysine	Amino Acid	90%	10	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M17895	N6-formyllysine	Amino Acid	96%	17.5	0.00 [0.00:0.00]	0.09 [-0.03:0.21]	0.91 [0.79:1.03]
M31539	O-acetylhomoserine	Amino Acid	92%		0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42370	S-1-pyrroline-5-carboxylate	Amino Acid	83%	24.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]

M39592	S-methylcysteine	Amino Acid	52%	30.3	0.00 [0.00:0.00]	0.11 [-0.06:0.29]	0.89 [0.71:1.06]
M38127	S-methylmethionine	Amino Acid	54%	14.8	0.00 [0.00:0.00]	0.12 [-0.06:0.29]	0.88 [0.71:1.06]
M43258	acisoga	Amino Acid	98%	16.5	0.27 [0.14:0.40]	0.00 [0.00:0.00]	0.73 [0.60:0.86]
M01126	alanine	Amino Acid	100%	11.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15142	allo-threonine	Amino Acid	83%		0.00 [0.00:0.00]	0.12 [-0.01:0.25]	0.88 [0.75:1.01]
M22132	alpha-hydroxyisocaproate	Amino Acid	95%	11.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46537	alpha-hydroxyisovalerate	Amino Acid	100%	8.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M04970	anthranilate	Amino Acid	41%		0.31 [0.09:0.53]	0.00 [0.00:0.00]	0.69 [0.47:0.91]
M47715	argininate	Amino Acid	99%	8.1	0.28 [0.15:0.42]	0.00 [0.00:0.00]	0.72 [0.58:0.85]
M01638	arginine	Amino Acid	100%	21	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M15497	argininosuccinate	Amino Acid	23%		0.00 [0.00:0.00]	0.10 [-0.11:0.31]	0.90 [0.69:1.11]
M00512	asparagine	Amino Acid	100%	11.3	0.19 [0.05:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.95]
M00443	aspartate	Amino Acid	100%	10.5	0.22 [0.08:0.35]	0.00 [0.00:0.00]	0.78 [0.65:0.92]
M12129	beta-hydroxyisovalerate	Amino Acid	73%		0.00 [0.00:0.00]	0.18 [-0.02:0.39]	0.82 [0.61:1.02]
M03141	betaine	Amino Acid	100%	36.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15308	cadaverine	Amino Acid	66%	6.2	0.00 [0.00:0.00]	0.08 [-0.11:0.27]	0.92 [0.73:1.11]
M40007	carboxyethyl-GABA	Amino Acid	100%	5.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M43412	cis-4-hydroxycyclohexylacetic acid	Amino Acid	94%	28.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40410	cis-urocanate	Amino Acid	99%	21.2	0.17 [0.02:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.98]
M02132	citrulline	Amino Acid	100%	4.8	0.00 [0.00:0.00]	0.12 [0.01:0.23]	0.88 [0.77:0.99]
M27718	creatine	Amino Acid	100%	8.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00513	creatinine	Amino Acid	99%	14.2	0.23 [0.09:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.91]
M15705	cystathionine	Amino Acid	32%		0.20 [-0.03:0.44]	0.00 [0.00:0.00]	0.80 [0.56:1.03]
M01868	cysteine	Amino Acid	100%	11.3	0.26 [0.13:0.40]	0.00 [0.00:0.00]	0.74 [0.60:0.87]
M22176	cysteine s-sulfate	Amino Acid	84%	8.7	0.00 [0.00:0.00]	0.12 [-0.01:0.26]	0.88 [0.74:1.01]
M37443	cysteine sulfinic acid	Amino Acid	98%	9.4	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M35637	cysteinylglycine	Amino Acid	37%		0.22 [-0.01:0.45]	0.00 [0.00:0.00]	0.78 [0.55:1.01]
M00056	cystine	Amino Acid	81%	12.7	0.26 [0.07:0.44]	0.00 [0.00:0.00]	0.74 [0.56:0.93]
M01576	dihydroxyphenylalanine (L-DOPA)	Amino Acid	35%		0.10 [-0.15:0.35]	0.00 [0.00:0.00]	0.90 [0.65:1.15]
M38273	dihydrocaffeate	Amino Acid	80%	13.6	0.00 [0.00:0.00]	0.25 [0.12:0.38]	0.75 [0.62:0.88]
M36808	dimethylarginine (SDMA + ADMA)	Amino Acid	88%	7.2	0.12 [-0.04:0.28]	0.00 [0.00:0.00]	0.88 [0.72:1.04]
M05086	dimethylglycine	Amino Acid	99%	8.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15765	ethylmalonate	Amino Acid	99%	9.2	0.00 [0.00:0.00]	0.17 [0.06:0.28]	0.83 [0.72:0.94]
M43493	formiminoglutamate	Amino Acid	98%	4.7	0.14 [-0.01:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.01]
M01416	gamma-aminobutyrate (GABA)	Amino Acid	84%	12	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M18280	gentisate	Amino Acid	78%	9.1	0.00 [0.00:0.00]	0.10 [-0.12:0.32]	0.90 [0.68:1.12]
M00057	glutamate	Amino Acid	100%	4.9	0.23 [0.09:0.36]	0.00 [0.00:0.00]	0.77 [0.64:0.91]
M33487	glutamate, gamma-methyl ester	Amino Acid	94%	16.3	0.11 [-0.04:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.04]
M00053	glutamine	Amino Acid	100%	7.6	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M00396	glutarate (pentanedioate)	Amino Acid	98%	17.8	0.00 [0.00:0.00]	0.11 [-0.01:0.22]	0.89 [0.78:1.01]
M00058	glycine	Amino Acid	100%	6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M43802	guanidinoacetate	Amino Acid	64%	8.2	0.00 [0.00:0.00]	0.10 [-0.09:0.29]	0.90 [0.71:1.09]
M32446	guanidinosuccinate	Amino Acid	51%	17.2	0.19 [-0.04:0.42]	0.00 [0.00:0.00]	0.81 [0.58:1.04]
M01574	histamine	Amino Acid	61%	9.5	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M00059	histidine	Amino Acid	100%	7.7	0.24 [0.11:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.89]
M22138	homocitrulline	Amino Acid	100%	4.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40473	hydantoin-5-propionic acid	Amino Acid	74%	17.5	0.00 [0.00:0.00]	0.44 [0.26:0.62]	0.56 [0.38:0.74]

M15716	imidazole lactate	Amino Acid	95%	10.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40730	imidazole propionate	Amino Acid	99%	4.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33965	indole	Amino Acid	37%		0.14 [-0.09:0.37]	0.00 [0.00:0.00]	0.86 [0.63:1.09]
M38116	indole-3-carboxylic acid	Amino Acid	82%	14	0.19 [0.03:0.35]	0.00 [0.00:0.00]	0.81 [0.65:0.97]
M27513	indoleacetate	Amino Acid	100%	6.9	0.17 [0.02:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.98]
M18349	indolelactate	Amino Acid	88%	5.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32405	indolepropionate	Amino Acid	99%	5.5	0.21 [0.07:0.35]	0.00 [0.00:0.00]	0.79 [0.65:0.93]
M35437	isobutyrylglycine	Amino Acid	62%	14.3	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01125	isoleucine	Amino Acid	100%	5.3	0.00 [0.00:0.00]	0.10 [-0.01:0.22]	0.90 [0.78:1.01]
M44656	isovalerate	Amino Acid	100%	12.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35107	isovalerylglycine	Amino Acid	90%	18.1	0.11 [-0.04:0.26]	0.00 [0.00:0.00]	0.89 [0.74:1.04]
M01417	kynurenate	Amino Acid	99%	6.2	0.00 [0.00:0.00]	0.11 [-0.00:0.22]	0.89 [0.78:1.00]
M00060	leucine	Amino Acid	100%	6	0.12 [-0.02:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.02]
M01301	lysine	Amino Acid	100%	5.6	0.18 [0.04:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.96]
M01302	methionine	Amino Acid	100%	7	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M44878	methionine sulfone	Amino Acid	49%		0.31 [0.10:0.53]	0.00 [0.00:0.00]	0.69 [0.47:0.90]
M18374	methionine sulfoxide	Amino Acid	100%	6.1	0.00 [0.00:0.00]	0.18 [0.07:0.29]	0.82 [0.71:0.93]
M15745	methysuccinate	Amino Acid	100%	12.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M43392	o-Tyrosine	Amino Acid	68%		0.00 [0.00:0.00]	0.11 [-0.09:0.31]	0.89 [0.69:1.09]
M01493	ornithine	Amino Acid	100%	5.6	0.22 [0.08:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.92]
M33444	p-cresol	Amino Acid	81%	32.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M36103	p-cresol sulfate	Amino Acid	100%	7.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M12142	phenethylamine	Amino Acid	96%	11.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15958	phenylacetate	Amino Acid	100%	10.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52925	phenylacetylglutamate	Amino Acid	60%		0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M00064	phenylalanine	Amino Acid	100%	5.3	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M22130	phenyllactate (PLA)	Amino Acid	100%	6.7	0.00 [0.00:0.00]	0.15 [0.04:0.26]	0.85 [0.74:0.96]
M35434	phenylpropionylglycine	Amino Acid	48%	20.1	0.00 [0.00:0.00]	0.14 [-0.03:0.32]	0.86 [0.68:1.03]
M00566	phenylpyruvate	Amino Acid	89%	18.2	0.39 [0.26:0.52]	0.00 [0.00:0.00]	0.61 [0.48:0.74]
M01512	picolinate	Amino Acid	98%	11.3	0.00 [0.00:0.00]	0.11 [-0.01:0.22]	0.89 [0.78:1.01]
M01444	pipecolate	Amino Acid	100%	6.7	0.00 [0.00:0.00]	0.11 [0.00:0.22]	0.89 [0.78:1.00]
M01898	proline	Amino Acid	100%	5.4	0.00 [0.00:0.00]	0.09 [-0.02:0.20]	0.91 [0.80:1.02]
M01408	putrescine	Amino Acid	67%	7.7	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46225	pyroglutamine*	Amino Acid	100%	27.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01495	saccharopine	Amino Acid	86%	7.2	0.00 [0.00:0.00]	0.11 [-0.02:0.24]	0.89 [0.76:1.02]
M01516	sarcosine	Amino Acid	33%		0.13 [-0.12:0.37]	0.00 [0.00:0.00]	0.87 [0.63:1.12]
M01648	serine	Amino Acid	100%	6.4	0.19 [0.06:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.94]
M02342	serotonin	Amino Acid	92%	7.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33021	skatol	Amino Acid	52%	36.9	0.14 [-0.09:0.36]	0.00 [0.00:0.00]	0.86 [0.64:1.09]
M00485	spermidine	Amino Acid	94%	9.8	0.19 [0.04:0.34]	0.00 [0.00:0.00]	0.81 [0.66:0.96]
M02125	taurine	Amino Acid	100%	6.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53231	thioprolin	Amino Acid	99%	10.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01284	threonine	Amino Acid	100%	7.8	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M32306	trans-4-hydroxyproline	Amino Acid	100%	10.3	0.14 [-0.01:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.01]
M00607	trans-urocanate	Amino Acid	100%	6.8	0.00 [0.00:0.00]	0.10 [-0.02:0.21]	0.90 [0.79:1.02]
M06104	tryptamine	Amino Acid	88%	6.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00054	tryptophan	Amino Acid	100%	6	0.14 [-0.00:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.00]
M01603	tyramine	Amino Acid	98%	5.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01299	tyrosine	Amino Acid	100%	6.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01649	valine	Amino Acid	100%	7.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]

M15679	xanthurate	Amino Acid	56%	14.4	0.00 [0.00:0.00]	0.10 [-0.08:0.28]	0.90 [0.72:1.08]
M00537	2-deoxyribose	Carbohydrate	100%	13	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35469	N-acetyl-beta-glucosaminyllamine	Carbohydrate	91%	6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46539	N-acetylglucosamine/N-acetylgalactosamine	Carbohydrate	100%	5.6	0.12 [-0.03:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.03]
M48149	N-acetylglucosaminylasparagine	Carbohydrate	99%	9.8	0.22 [0.09:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.91]
M18354	N-acetylmuramate	Carbohydrate	100%	4.4	0.16 [0.02:0.29]	0.00 [0.00:0.00]	0.84 [0.71:0.98]
M32377	N-acetylneuraminate	Carbohydrate	100%	5.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M36713	N6-carboxymethyllysine	Carbohydrate	83%	9	0.14 [-0.01:0.29]	0.00 [0.00:0.00]	0.86 [0.71:1.01]
M00575	arabinose	Carbohydrate	93%	10.7	0.12 [-0.04:0.28]	0.00 [0.00:0.00]	0.88 [0.72:1.04]
M48885	arabitol/xylitol	Carbohydrate	88%	10.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48255	arabonate/xylonate	Carbohydrate	100%	23.9	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M42420	erythronate*	Carbohydrate	100%	34.6	0.29 [0.16:0.42]	0.00 [0.00:0.00]	0.71 [0.58:0.84]
M27722	erythrose	Carbohydrate	91%	24.1	0.27 [0.11:0.42]	0.00 [0.00:0.00]	0.73 [0.58:0.89]
M48195	fructose	Carbohydrate	99%	6.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15587	fucoase	Carbohydrate	100%	16.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M27719	galactonate	Carbohydrate	91%	38.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48152	glucose	Carbohydrate	100%	5.5	0.25 [0.11:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.89]
M15443	glucuronate	Carbohydrate	99%	26.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01572	glycerate	Carbohydrate	100%	16.1	0.26 [0.12:0.40]	0.00 [0.00:0.00]	0.74 [0.60:0.88]
M39777	isomaltose	Carbohydrate	37%	22.5	0.00 [0.00:0.00]	0.18 [0.01:0.36]	0.82 [0.64:0.99]
M00527	lactate	Carbohydrate	98%	9.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15586	maltose	Carbohydrate	99%	12.7	0.34 [0.20:0.47]	0.00 [0.00:0.00]	0.66 [0.53:0.80]
M44688	maltotriose	Carbohydrate	76%	15.8	0.00 [0.00:0.00]	0.24 [0.03:0.45]	0.76 [0.55:0.97]
M46142	mannitol/sorbitol	Carbohydrate	99%	10	0.17 [0.02:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.98]
M48153	mannose	Carbohydrate	96%	22.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48990	pyruvate	Carbohydrate	61%	46.5	0.00 [0.00:0.00]	0.21 [0.03:0.38]	0.79 [0.62:0.97]
M15772	ribitol	Carbohydrate	94%	11.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M27731	ribonate	Carbohydrate	100%	23.8	0.15 [0.02:0.28]	0.00 [0.00:0.00]	0.85 [0.72:0.98]
M01471	ribose	Carbohydrate	79%		0.00 [0.00:0.00]	0.23 [0.02:0.45]	0.77 [0.55:0.98]
M48340	ribulose/xylulose	Carbohydrate	87%	18	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53237	sedoheptulose	Carbohydrate	100%	5.8	0.18 [0.04:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.96]
M01519	sucrose	Carbohydrate	43%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15581	xylose	Carbohydrate	91%	12.3	0.13 [-0.03:0.30]	0.00 [0.00:0.00]	0.87 [0.70:1.03]
M27665	1-methylnicotinamide	Cofactors And Vitamins	49%	18	0.16 [-0.06:0.39]	0.00 [0.00:0.00]	0.84 [0.61:1.06]
M27673	5-(2-Hydroxyethyl)-4-methylthiazole	Cofactors And Vitamins	100%	18.6	0.22 [0.09:0.35]	0.00 [0.00:0.00]	0.78 [0.65:0.91]
M27680	6-hydroxynicotinate	Cofactors And Vitamins	98%	8.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40084	D-urobilin	Cofactors And Vitamins	94%	19.4	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M32426	I-urobilinogen	Cofactors And Vitamins	33%		0.00 [0.00:0.00]	0.18 [-0.00:0.36]	0.82 [0.64:1.00]
M40173	L-urobilin	Cofactors And Vitamins	97%	6.4	0.13 [-0.00:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.00]
M01561	alpha-tocopherol	Cofactors And Vitamins	100%	35.4	0.00 [0.00:0.00]	0.10 [-0.01:0.22]	0.90 [0.78:1.01]
M38288	alpha-tocopherol acetate	Cofactors And Vitamins	28%	25	0.21 [-0.03:0.46]	0.00 [0.00:0.00]	0.79 [0.54:1.03]
M37502	alpha-tocotrienol	Cofactors And Vitamins	99%	21.9	0.00 [0.00:0.00]	0.13 [0.02:0.24]	0.87 [0.76:0.98]
M43807	bilirubin (Z,Z)	Cofactors And Vitamins	91%	17.4	0.22 [0.08:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.92]

M02137	biliverdin	Cofactors And Vitamins	98%	16.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42971	biocytin	Cofactors And Vitamins	85%	10	0.00 [0.00:0.00]	0.23 [0.11:0.35]	0.77 [0.65:0.89]
M00568	biotin	Cofactors And Vitamins	95%	7.6	0.19 [0.05:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.95]
M33418	delta-tocopherol	Cofactors And Vitamins	60%	29.1	0.27 [0.05:0.49]	0.00 [0.00:0.00]	0.73 [0.51:0.95]
M02134	flavin adenine dinucleotide (FAD)	Cofactors And Vitamins	33%		0.00 [0.00:0.00]	0.36 [0.19:0.54]	0.64 [0.46:0.81]
M15797	flavin mononucleotide (FMN)	Cofactors And Vitamins	35%		0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M44876	gamma-CEHC	Cofactors And Vitamins	33%		0.00 [0.00:0.00]	0.13 [-0.05:0.31]	0.87 [0.69:1.05]
M52473	gamma-tocopherol/beta-tocopherol	Cofactors And Vitamins	100%	35.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37501	gamma-tocotrienol	Cofactors And Vitamins	99%	18.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38654	maleamate	Cofactors And Vitamins	78%		0.00 [0.00:0.00]	0.25 [0.05:0.46]	0.75 [0.54:0.95]
M00594	nicotinamide	Cofactors And Vitamins	100%	14.9	0.00 [0.00:0.00]	0.08 [-0.03:0.19]	0.92 [0.81:1.03]
M33013	nicotinamide riboside	Cofactors And Vitamins	90%	19	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01504	nicotinate	Cofactors And Vitamins	100%	8.3	0.28 [0.15:0.42]	0.00 [0.00:0.00]	0.72 [0.58:0.85]
M33471	nicotinate ribonucleoside	Cofactors And Vitamins	99%	8.3	0.00 [0.00:0.00]	0.09 [-0.02:0.20]	0.91 [0.80:1.02]
M01508	pantothenate	Cofactors And Vitamins	100%	6.5	0.32 [0.19:0.45]	0.00 [0.00:0.00]	0.68 [0.55:0.81]
M43023	pterin	Cofactors And Vitamins	94%	9.7	0.13 [-0.02:0.28]	0.00 [0.00:0.00]	0.87 [0.72:1.02]
M01651	pyridoxal	Cofactors And Vitamins	100%	10.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M02150	pyridoxamine	Cofactors And Vitamins	100%	5.7	0.11 [-0.04:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.04]
M31555	pyridoxate	Cofactors And Vitamins	100%	5.8	0.00 [0.00:0.00]	0.11 [-0.01:0.22]	0.89 [0.78:1.01]
M00608	pyridoxine (Vitamin B6)	Cofactors And Vitamins	99%	11	0.13 [-0.00:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.00]
M01899	quinolinate	Cofactors And Vitamins	29%		0.30 [0.07:0.53]	0.00 [0.00:0.00]	0.70 [0.47:0.93]
M01806	retinol (Vitamin A)	Cofactors And Vitamins	49%	13.6	0.08 [-0.15:0.31]	0.00 [0.00:0.00]	0.92 [0.69:1.15]
M01827	riboflavin (Vitamin B2)	Cofactors And Vitamins	100%	7.6	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M05341	thiamin (Vitamin B1)	Cofactors And Vitamins	99%	9.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M27738	threonate	Cofactors And Vitamins	99%	62.1	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M32401	trigonelline (N'-methylnicotinate)	Cofactors And Vitamins	100%	4.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52282	2-methylcitrate/homocitrate	Energy	99%	12.4	0.21 [0.08:0.34]	0.00 [0.00:0.00]	0.79 [0.66:0.92]
M00528	alpha-ketoglutarate	Energy	99%	29.1	0.28 [0.14:0.41]	0.00 [0.00:0.00]	0.72 [0.59:0.86]
M01564	citrate	Energy	99%	8.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01643	fumarate	Energy	100%	8.3	0.00 [0.00:0.00]	0.11 [-0.00:0.22]	0.89 [0.78:1.00]
M12110	isocitrate	Energy	22%		0.00 [0.00:0.00]	0.26 [0.06:0.46]	0.74 [0.54:0.94]
M01303	malate	Energy	100%	10.3	0.21 [0.07:0.34]	0.00 [0.00:0.00]	0.79 [0.66:0.93]
M42109	phosphate	Energy	100%	12.4	0.13 [-0.00:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.00]
M01437	succinate	Energy	100%	19.2	0.23 [0.10:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.90]
M37058	succinylcarnitine	Energy	80%	10.5	0.05 [-0.24:0.34]	0.00 [0.00:0.00]	0.95 [0.66:1.24]
M15729	tricarallylate	Energy	97%	8.7	0.21 [0.07:0.36]	0.00 [0.00:0.00]	0.79 [0.64:0.93]
M43027	1,11-undecanedicarboxylate	Lipid	99%	9.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]

M54892	1,2-dilinolenoyl-digalactosylglycerol (18:3/18:3)	Lipid	30%	15.3	0.16 [-0.09:0.40]	0.00 [0.00:0.00]	0.84 [0.60:1.09]
M54891	1,2-dilinolenoyl-galactosylglycerol (18:3/18:3)*	Lipid	41%	15.6	0.19 [-0.03:0.42]	0.00 [0.00:0.00]	0.81 [0.58:1.03]
M52603	1,2-dilinoleoyl-GPC (18:2/18:2)	Lipid	76%	37.8	0.00 [0.00:0.00]	0.38 [0.20:0.57]	0.62 [0.43:0.80]
M54897	1,2-dilinoleoyl-digalactosylglycerol (18:2/18:2)*	Lipid	73%	29.4	0.46 [0.23:0.69]	0.00 [0.00:0.00]	0.54 [0.31:0.77]
M54899	1,2-dilinoleoyl-galactosylglycerol (18:2/18:2)*	Lipid	60%	40	0.00 [0.00:0.00]	0.15 [-0.03:0.34]	0.85 [0.66:1.03]
M19130	1,2-dipalmitoyl-GPC (16:0/16:0)	Lipid	55%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52625	1,2-dipalmitoyl-GPG (16:0/16:0)	Lipid	34%		0.14 [-0.09:0.37]	0.00 [0.00:0.00]	0.86 [0.63:1.09]
M44621	1-(1-enyl-oleoyl)-GPE (P-18:1)*	Lipid	46%		0.00 [0.00:0.00]	0.08 [-0.10:0.25]	0.92 [0.75:1.10]
M39270	1-(1-enyl-palmitoyl)-GPE (P-16:0)*	Lipid	78%	16.2	0.23 [-0.03:0.50]	0.00 [0.00:0.00]	0.77 [0.50:1.03]
M39271	1-(1-enyl-stearoyl)-GPE (P-18:0)*	Lipid	84%	17.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M34393	1-linolenoylglycerol (18:3)	Lipid	57%	55	0.00 [0.00:0.00]	0.22 [0.05:0.40]	0.78 [0.60:0.95]
M53176	1-linoleoyl-2-linolenoyl-GPC (18:2/18:3)*	Lipid	27%		0.11 [-0.16:0.39]	0.00 [0.00:0.00]	0.89 [0.61:1.16]
M54896	1-linoleoyl-2-linolenoyl-digalactosylglycerol (18:2/18:3)*	Lipid	28%		0.21 [-0.04:0.47]	0.00 [0.00:0.00]	0.79 [0.53:1.04]
M54898	1-linoleoyl-2-linolenoyl-galactosylglycerol (18:2/18:3)*	Lipid	21%		0.36 [0.07:0.65]	0.00 [0.00:0.00]	0.64 [0.35:0.93]
M34419	1-linoleoyl-GPC (18:2)	Lipid	75%	30.2	0.00 [0.00:0.00]	0.30 [0.11:0.49]	0.70 [0.51:0.89]
M36600	1-linoleoyl-GPE (18:2)*	Lipid	43%		0.00 [0.00:0.00]	0.21 [0.03:0.39]	0.79 [0.61:0.97]
M27447	1-linoleoylglycerol (18:2)	Lipid	94%	55.7	0.00 [0.00:0.00]	0.14 [0.02:0.25]	0.86 [0.75:0.98]
M34391	1-margaroylglycerol (17:0)	Lipid	71%	29	0.17 [-0.08:0.41]	0.00 [0.00:0.00]	0.83 [0.59:1.08]
M35625	1-myristoylglycerol (14:0)	Lipid	41%		0.12 [-0.11:0.35]	0.00 [0.00:0.00]	0.88 [0.65:1.11]
M52453	1-oleoyl-2-linoleoyl-GPC (18:1/18:2)*	Lipid	82%	43.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46798	1-oleoyl-2-linoleoyl-glycerol (18:1/18:2)	Lipid	60%	31.5	0.00 [0.00:0.00]	0.13 [-0.05:0.31]	0.87 [0.69:1.05]
M46799	1-oleoyl-3-linoleoyl-glycerol (18:1/18:2)	Lipid	95%	27.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48258	1-oleoyl-GPC (18:1)	Lipid	74%		0.54 [0.33:0.75]	0.00 [0.00:0.00]	0.46 [0.25:0.67]
M35628	1-oleoyl-GPE (18:1)	Lipid	70%	27.5	0.00 [0.00:0.00]	0.36 [0.18:0.53]	0.64 [0.47:0.82]
M21184	1-oleoylglycerol (18:1)	Lipid	52%		0.00 [0.00:0.00]	0.16 [-0.02:0.34]	0.84 [0.66:1.02]
M45968	1-oleoylglycerophosphoglycerol*	Lipid	40%		0.00 [0.00:0.00]	0.11 [-0.07:0.29]	0.89 [0.71:1.07]
M52462	1-palmitoyl-2-arachidonoyl-GPC (16:0/20:4)	Lipid	53%		0.61 [0.43:0.78]	0.00 [0.00:0.00]	0.39 [0.22:0.57]
M54893	1-palmitoyl-2-linolenoyl-digalactosylglycerol (16:0/18:3)	Lipid	33%		0.00 [0.00:0.00]	0.13 [-0.06:0.32]	0.87 [0.68:1.06]
M42446	1-palmitoyl-2-linoleoyl-GPC (16:0/18:2)	Lipid	97%		0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42449	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	Lipid	22%		0.00 [-0.31:0.31]	0.00 [0.00:0.00]	1.00 [0.69:1.31]
M52450	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2)	Lipid	24%		0.00 [0.00:0.00]	0.01 [-0.21:0.23]	0.99 [0.77:1.21]
M54887	1-palmitoyl-2-linoleoyl-digalactosylglycerol (16:0/18:2)*	Lipid	76%	20.9	0.56 [0.35:0.77]	0.00 [0.00:0.00]	0.44 [0.23:0.65]

M54901	1-palmitoyl-2-linoleoyl-galactosylglycerol (16:0/18:2)*	Lipid	37%		0.00 [0.00:0.00]	0.16 [-0.03:0.36]	0.84 [0.64:1.03]
M52633	1-palmitoyl-2-linoleoyl-glycerol (16:0/18:2)*	Lipid	43%	38.6	0.00 [0.00:0.00]	0.01 [-0.17:0.19]	0.99 [0.81:1.17]
M52461	1-palmitoyl-2-oleoyl-GPC (16:0/18:1)	Lipid	96%	80.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M19263	1-palmitoyl-2-oleoyl-GPE (16:0/18:1)	Lipid	26%		0.00 [0.00:0.00]	0.12 [-0.10:0.34]	0.88 [0.66:1.10]
M52634	1-palmitoyl-3-linoleoyl-glycerol (16:0/18:2)*	Lipid	89%	28.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33955	1-palmitoyl-GPC (16:0)	Lipid	99%	63.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35631	1-palmitoyl-GPE (16:0)	Lipid	94%	18.3	0.00 [0.00:0.00]	0.12 [-0.00:0.24]	0.88 [0.76:1.00]
M35305	1-palmitoyl-GPI (16:0)*	Lipid	57%	42.6	0.00 [0.00:0.00]	0.19 [0.02:0.37]	0.81 [0.63:0.98]
M21127	1-palmitoylglycerol (16:0)	Lipid	89%	41.9	0.21 [0.07:0.36]	0.00 [0.00:0.00]	0.79 [0.64:0.93]
M45970	1-palmitoylglycerophosphoglycerol*	Lipid	85%	14.1	0.00 [0.00:0.00]	0.17 [0.04:0.29]	0.83 [0.71:0.96]
M47898	1-pentadecanoylglycerol (1-monopentadecanoin)	Lipid	55%		0.00 [0.00:0.00]	0.22 [0.05:0.40]	0.78 [0.60:0.95]
M33961	1-stearoyl-GPC (18:0)	Lipid	90%	41.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42398	1-stearoyl-GPE (18:0)	Lipid	84%	16.7	0.00 [0.00:0.00]	0.12 [-0.02:0.25]	0.88 [0.75:1.02]
M19324	1-stearoyl-GPI (18:0)	Lipid	60%	33.1	0.00 [0.00:0.00]	0.17 [-0.01:0.35]	0.83 [0.65:1.01]
M34437	1-stearoylglycerophosphoglycerol	Lipid	44%		0.00 [0.00:0.00]	0.20 [0.02:0.37]	0.80 [0.63:0.98]
M45966	1-stearoylglycerophosphoserine*	Lipid	78%	31	0.29 [0.02:0.55]	0.00 [0.00:0.00]	0.71 [0.45:0.98]
M33971	10-heptadecenoate (17:1n7)	Lipid	100%	21.6	0.13 [-0.00:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.00]
M47123	10-hydroxystearate	Lipid	100%	5.1	0.15 [0.01:0.29]	0.00 [0.00:0.00]	0.85 [0.71:0.99]
M33972	10-nonadecenoate (19:1n9)	Lipid	52%		0.00 [0.00:0.00]	0.35 [0.18:0.53]	0.65 [0.47:0.82]
M38167	11-ketoetiocholanolone sulfate	Lipid	29%	18.6	0.15 [-0.09:0.39]	0.00 [0.00:0.00]	0.85 [0.61:1.09]
M38395	12,13-DiHOME	Lipid	89%	16.5	0.20 [0.05:0.35]	0.00 [0.00:0.00]	0.80 [0.65:0.95]
M44644	12-dehydrocholate	Lipid	63%	10.2	0.13 [-0.11:0.37]	0.00 [0.00:0.00]	0.87 [0.63:1.11]
M43535	12-hydroxystearate	Lipid	80%		0.00 [0.00:0.00]	0.13 [-0.11:0.36]	0.87 [0.64:1.11]
M37752	13-HODE + 9-HODE	Lipid	96%	27.3	0.00 [0.00:0.00]	0.10 [-0.01:0.22]	0.90 [0.78:1.01]
M46109	13-HOTrE	Lipid	55%	18.9	0.00 [0.00:0.00]	0.16 [-0.01:0.34]	0.84 [0.66:1.01]
M38293	13-methylmyristic acid	Lipid	95%	27.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38768	15-methylpalmitate	Lipid	94%	29.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38296	17-methylstearate	Lipid	95%	35.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M43761	2-aminoheptanoate	Lipid	79%	14.7	0.35 [0.09:0.61]	0.00 [0.00:0.00]	0.65 [0.39:0.91]
M42489	2-hydroxydecanoate	Lipid	91%	9.9	0.12 [-0.03:0.27]	0.00 [0.00:0.00]	0.88 [0.73:1.03]
M52294	2-hydroxyglutarate	Lipid	100%	7.1	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M32413	2-hydroxymyristate	Lipid	74%		0.00 [0.00:0.00]	0.11 [-0.10:0.32]	0.89 [0.68:1.10]
M35675	2-hydroxypalmitate	Lipid	98%	30.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M17945	2-hydroxystearate	Lipid	80%	32	0.00 [0.00:0.00]	0.14 [-0.09:0.36]	0.86 [0.64:1.09]
M32506	2-linoleoylglycerol (18:2)	Lipid	76%	37	0.00 [0.00:0.00]	0.09 [-0.12:0.31]	0.91 [0.69:1.12]
M35482	2-methylmalonyl carnitine	Lipid	79%	21.6	0.00 [0.00:0.00]	0.11 [-0.13:0.34]	0.89 [0.66:1.13]
M21232	2-oleoylglycerol (18:1)	Lipid	68%	49.4	0.00 [0.00:0.00]	0.16 [-0.03:0.35]	0.84 [0.65:1.03]
M31787	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (CMPF)	Lipid	38%		0.25 [0.02:0.48]	0.00 [0.00:0.00]	0.75 [0.52:0.98]
M54723	3-carboxyadipate	Lipid	97%	10.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00531	3-hydroxy-3-methylglutarate	Lipid	99%	11	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00542	3-hydroxybutyrate (BHBA)	Lipid	91%	10.9	0.13 [-0.02:0.28]	0.00 [0.00:0.00]	0.87 [0.72:1.02]
M53230	3-hydroxyhexanoate	Lipid	24%		0.21 [-0.04:0.45]	0.00 [0.00:0.00]	0.79 [0.55:1.04]

M32457	3-hydroxyaurate	Lipid	75%	25.5	0.21 [-0.06:0.48]	0.00 [0.00:0.00]	0.79 [0.52:1.06]
M21158	3-hydroxymyristate	Lipid	92%	17.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01556	3-hydroxypropanoate	Lipid	29%		0.05 [-0.20:0.30]	0.00 [0.00:0.00]	0.95 [0.70:1.20]
M31943	3-hydroxysebacate	Lipid	55%		0.00 [0.00:0.00]	0.12 [-0.06:0.30]	0.88 [0.70:1.06]
M52938	3-hydroxystearate	Lipid	84%	30.2	0.00 [0.00:0.00]	0.13 [-0.00:0.26]	0.87 [0.74:1.00]
M34381	3-ketosphinganine	Lipid	87%	19.2	0.28 [0.12:0.43]	0.00 [0.00:0.00]	0.72 [0.57:0.88]
M36749	3-methyladipate	Lipid	84%	22.5	0.18 [0.02:0.34]	0.00 [0.00:0.00]	0.82 [0.66:0.98]
M54676	3-methylglutarate/2-methylglutarate	Lipid	100%	13.7	0.00 [0.00:0.00]	0.11 [0.00:0.22]	0.89 [0.78:1.00]
M43507	3b-hydroxy-5-cholenoic acid	Lipid	86%	20.3	0.00 [0.00:0.00]	0.17 [0.04:0.29]	0.83 [0.71:0.96]
M37207	4-androsten-3alpha,17alpha-diol monosulfate (2)	Lipid	40%	10.2	0.10 [-0.13:0.33]	0.00 [0.00:0.00]	0.90 [0.67:1.13]
M37202	4-androsten-3beta,17beta-diol disulfate (1)*	Lipid	32%	12.8	0.00 [0.00:0.00]	0.11 [-0.08:0.30]	0.89 [0.70:1.08]
M37203	4-androsten-3beta,17beta-diol disulfate (2)*	Lipid	36%	9.3	0.15 [-0.08:0.38]	0.00 [0.00:0.00]	0.85 [0.62:1.08]
M37211	4-androsten-3beta,17beta-diol monosulfate (1)	Lipid	25%	11.1	0.00 [0.00:0.00]	0.16 [-0.04:0.36]	0.84 [0.64:1.04]
M37210	4-androsten-3beta,17beta-diol monosulfate (2)	Lipid	33%	22	0.04 [-0.21:0.29]	0.00 [0.00:0.00]	0.96 [0.71:1.21]
M38125	4-cholesten-3-one	Lipid	100%	13	0.17 [0.03:0.30]	0.00 [0.00:0.00]	0.83 [0.70:0.97]
M33968	5-dodecenoate (12:1n7)	Lipid	100%	12.5	0.24 [0.09:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.91]
M31938	5-hydroxyhexanoate	Lipid	95%	7.8	0.16 [0.02:0.31]	0.00 [0.00:0.00]	0.84 [0.69:0.98]
M37188	5alpha-androstan-3beta,17alpha-diol monosulfate (1)	Lipid	49%	13.7	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37191	5alpha-androstan-3beta,17beta-diol monosulfate (1)	Lipid	65%	10.1	0.00 [0.00:0.00]	0.19 [0.01:0.37]	0.81 [0.63:0.99]
M37199	5alpha-pregnan-3beta,20alpha-diol monosulfate (1)	Lipid	67%	12.9	0.07 [-0.18:0.33]	0.00 [0.00:0.00]	0.93 [0.67:1.18]
M37196	5alpha-pregnan-3beta,20beta-diol monosulfate (1)	Lipid	22%		0.05 [-0.22:0.31]	0.00 [0.00:0.00]	0.95 [0.69:1.22]
M46336	6-oxolithocholate	Lipid	89%	17.8	0.16 [0.00:0.31]	0.00 [0.00:0.00]	0.84 [0.69:1.00]
M31906	7,12-diketolithocholate	Lipid	20%	13.7	0.19 [-0.07:0.45]	0.00 [0.00:0.00]	0.81 [0.55:1.07]
M31904	7-ketodeoxycholate	Lipid	75%	8.5	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M43830	7-ketolithocholate	Lipid	23%		0.36 [0.12:0.61]	0.00 [0.00:0.00]	0.64 [0.39:0.88]
M38399	9,10-DiHOME	Lipid	92%	12.1	0.25 [0.10:0.40]	0.00 [0.00:0.00]	0.75 [0.60:0.90]
M17772	N-acetylsphingosine	Lipid	40%	15	0.00 [0.00:0.00]	0.12 [-0.05:0.30]	0.88 [0.70:1.05]
M32462	N-linoleoylglycine	Lipid	22%		0.04 [-0.23:0.32]	0.00 [0.00:0.00]	0.96 [0.68:1.23]
M42092	N-palmitoyl glycine	Lipid	55%		0.00 [0.00:0.00]	0.11 [-0.07:0.28]	0.89 [0.72:1.07]
M52604	N-palmitoyl-sphinganine (d18:0/16:0)	Lipid	100%	9.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M44877	N-palmitoyl-sphingosine (d18:1/16:0)	Lipid	100%	10.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52238	N-stearoyl-sphingadienine (d18:2/18:0)	Lipid	81%	12	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32198	acetylcarnitine	Lipid	72%		0.00 [0.00:0.00]	0.09 [-0.11:0.30]	0.91 [0.70:1.11]
M21134	adipate	Lipid	100%	11.6	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M32980	adrenate (22:4n6)	Lipid	72%	46.7	0.08 [-0.20:0.35]	0.00 [0.00:0.00]	0.92 [0.65:1.20]
M01118	arachidate (20:0)	Lipid	100%	45.5	0.17 [0.02:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.98]
M01110	arachidonate (20:4n6)	Lipid	99%	18.3	0.13 [-0.01:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.01]
M18362	azelate (nonanedioate)	Lipid	100%	6.7	0.25 [0.12:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.88]
M27414	beta-sitosterol	Lipid	97%	14.3	0.00 [0.00:0.00]	0.18 [0.07:0.30]	0.82 [0.70:0.93]
M31850	butyrylglycine	Lipid	57%	19	0.09 [-0.14:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.14]
M33997	campesterol	Lipid	88%	16	0.00 [0.00:0.00]	0.13 [0.00:0.26]	0.87 [0.74:1.00]

M01642	caprate (10:0)	Lipid	100%	9.6	0.00 [0.00:0.00]	0.11 [-0.01:0.22]	0.89 [0.78:1.01]
M32489	caproate (6:0)	Lipid	96%	11.8	0.16 [0.01:0.31]	0.00 [0.00:0.00]	0.84 [0.69:0.99]
M32492	caprylate (8:0)	Lipid	88%	9.8	0.00 [0.00:0.00]	0.10 [-0.02:0.23]	0.90 [0.77:1.02]
M15500	carnitine	Lipid	100%	13.5	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M01563	chenodeoxycholate	Lipid	20%		0.24 [-0.03:0.51]	0.00 [0.00:0.00]	0.76 [0.49:1.03]
M22842	cholate	Lipid	96%	8.3	0.18 [0.04:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.96]
M00063	cholesterol	Lipid	99%	14.5	0.00 [0.00:0.00]	0.09 [-0.02:0.20]	0.91 [0.80:1.02]
M15506	choline	Lipid	100%	4.6	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M34396	choline phosphate	Lipid	80%	25.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M45986	coprostanol	Lipid	94%	13.5	0.00 [0.00:0.00]	0.10 [-0.02:0.22]	0.90 [0.78:1.02]
M40040	cortolone	Lipid	38%		0.07 [-0.16:0.30]	0.00 [0.00:0.00]	0.93 [0.70:1.16]
M32425	dehydroisoandrosterone sulfate (DHEA-S)	Lipid	41%	6	0.00 [0.00:0.00]	0.15 [-0.02:0.33]	0.85 [0.67:1.02]
M31891	dehydrolithocholate	Lipid	100%	5.7	0.13 [-0.01:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.01]
M36747	deoxycarnitine	Lipid	100%	4.1	0.12 [-0.02:0.27]	0.00 [0.00:0.00]	0.88 [0.73:1.02]
M01114	deoxycholate	Lipid	99%	4.7	0.12 [-0.03:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.03]
M52969	deoxycholic acid sulfate	Lipid	42%	71.7	0.00 [0.00:0.00]	0.29 [0.12:0.46]	0.71 [0.54:0.88]
M17805	dihomo-linoleate (20:2n6)	Lipid	100%	31.7	0.21 [0.07:0.35]	0.00 [0.00:0.00]	0.79 [0.65:0.93]
M35718	dihomo-linolenate (20:3n3 or n6)	Lipid	99%	25	0.23 [0.09:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.91]
M42978	dimethylmalonic acid	Lipid	90%	24.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32415	docosadienoate (22:2n6)	Lipid	100%	34.9	0.22 [0.08:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.92]
M44675	docosahexaenoate (DHA; 22:6n3)	Lipid	99%	22.8	0.11 [-0.03:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.03]
M32504	docosapentaenoate (n3 DPA; 22:5n3)	Lipid	97%	27.6	0.25 [0.12:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.88]
M32388	dodecanedioate	Lipid	99%	7.4	0.40 [0.28:0.52]	0.00 [0.00:0.00]	0.60 [0.48:0.72]
M18467	eicosapentaenoate (EPA; 20:5n3)	Lipid	95%	13.6	0.16 [0.01:0.31]	0.00 [0.00:0.00]	0.84 [0.69:0.99]
M33587	eicosenoate (20:1)	Lipid	100%	31.6	0.19 [0.04:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.96]
M33973	epiandrosterone sulfate	Lipid	25%		0.00 [0.00:0.00]	0.12 [-0.09:0.33]	0.88 [0.67:1.09]
M27553	ergosterol	Lipid	60%	15.3	0.32 [0.11:0.54]	0.00 [0.00:0.00]	0.68 [0.46:0.89]
M01552	erucate (22:1n9)	Lipid	100%	31.5	0.14 [-0.00:0.29]	0.00 [0.00:0.00]	0.86 [0.71:1.00]
M15122	glycerol	Lipid	100%	13.5	0.00 [0.00:0.00]	0.13 [0.02:0.24]	0.87 [0.76:0.98]
M43847	glycerol 3-phosphate	Lipid	100%	8.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37455	glycerophosphoethanolamine	Lipid	99%	7.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48857	glycerophosphoglycerol	Lipid	93%	20.6	0.29 [0.15:0.44]	0.00 [0.00:0.00]	0.71 [0.56:0.85]
M52307	glycerophosphoinositol*	Lipid	95%	10.1	0.13 [-0.03:0.29]	0.00 [0.00:0.00]	0.87 [0.71:1.03]
M15990	glycerophosphorylcholine (GPC)	Lipid	74%		0.00 [0.00:0.00]	0.34 [0.16:0.53]	0.66 [0.47:0.84]
M32346	glycochenodeoxycholate	Lipid	92%	17.4	0.13 [-0.02:0.29]	0.00 [0.00:0.00]	0.87 [0.71:1.02]
M18476	glycocholate	Lipid	96%	32.6	0.00 [0.00:0.00]	0.16 [0.05:0.28]	0.84 [0.72:0.95]
M32599	glycochenolate sulfate*	Lipid	58%	18.1	0.00 [0.00:0.00]	0.29 [0.12:0.46]	0.71 [0.54:0.88]
M18477	glycodeoxycholate	Lipid	97%	15.1	0.00 [0.00:0.00]	0.20 [0.08:0.31]	0.80 [0.69:0.92]
M52975	glycodeoxycholate sulfate	Lipid	25%		0.18 [-0.09:0.44]	0.00 [0.00:0.00]	0.82 [0.56:1.09]
M31912	glycolithocholate	Lipid	59%		0.00 [0.00:0.00]	0.04 [-0.14:0.22]	0.96 [0.78:1.14]
M32620	glycolithocholate sulfate*	Lipid	83%	13.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53013	glycosyl-N-palmitoyl-sphingosine	Lipid	66%	15.4	0.00 [0.00:0.00]	0.31 [0.14:0.48]	0.69 [0.52:0.86]
M52234	glycosyl-N-stearoyl-sphingosine	Lipid	35%		0.24 [-0.00:0.49]	0.00 [0.00:0.00]	0.76 [0.51:1.00]
M39379	glycoursodeoxycholate	Lipid	64%	18.7	0.11 [-0.12:0.35]	0.00 [0.00:0.00]	0.89 [0.65:1.12]
M01644	heptanoate (7:0)	Lipid	93%	12.5	0.16 [0.01:0.32]	0.00 [0.00:0.00]	0.84 [0.68:0.99]
M46619	hexadecadienoate (16:2)	Lipid	98%	8.6	0.00 [0.00:0.00]	0.18 [0.07:0.29]	0.82 [0.71:0.93]

M35678	hexadecanedioate	Lipid	100%	6.9	0.14 [0.00:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.00]
M53215	hexadecatrienoate (16:3n3)	Lipid	96%	7.9	0.24 [0.10:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.90]
M35436	hexanoylglycine	Lipid	43%	16.9	0.19 [-0.04:0.41]	0.00 [0.00:0.00]	0.81 [0.59:1.04]
M34093	hyocholate	Lipid	91%	16.3	0.00 [0.00:0.00]	0.13 [0.01:0.26]	0.87 [0.74:0.99]
M22273	isocaproate	Lipid	48%	39.2	0.00 [0.00:0.00]	0.12 [-0.06:0.29]	0.88 [0.71:1.06]
M46740	isoursodeoxycholate	Lipid	100%	7.8	0.13 [-0.00:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.00]
M53010	lactosyl-N-palmitoyl-sphingosine	Lipid	68%	12	0.00 [0.00:0.00]	0.38 [0.21:0.56]	0.62 [0.44:0.79]
M01128	lanosterol	Lipid	90%	24.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01645	laurate (12:0)	Lipid	100%	4.6	0.00 [0.00:0.00]	0.08 [-0.03:0.19]	0.92 [0.81:1.03]
M32455	linoleamide (18:2n6)	Lipid	99%	44.5	0.00 [0.00:0.00]	0.21 [0.10:0.32]	0.79 [0.68:0.90]
M01105	linoleate (18:2n6)	Lipid	100%	17.6	0.00 [0.00:0.00]	0.14 [0.02:0.25]	0.86 [0.75:0.98]
M34035	linolenate [alpha or gamma; (18:3n3 or 6)]	Lipid	100%	11.5	0.00 [0.00:0.00]	0.11 [0.00:0.22]	0.89 [0.78:1.00]
M52249	linolenoyl-linolenoyl-glycerol (18:3/18:3)*	Lipid	43%	24.3	0.12 [-0.11:0.35]	0.00 [0.00:0.00]	0.88 [0.65:1.11]
M52608	linoleoyl ethanolamide	Lipid	98%	27.1	0.24 [0.11:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.89]
M52413	linoleoyl-arachidonoyl-glycerol (18:2/20:4)*	Lipid	98%	9.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52315	linoleoyl-linolenoyl-glycerol (18:2/18:3)*	Lipid	79%	23.5	0.00 [0.00:0.00]	0.31 [0.11:0.51]	0.69 [0.49:0.89]
M01483	lithocholate	Lipid	100%	5.4	0.15 [-0.01:0.30]	0.00 [0.00:0.00]	0.85 [0.70:1.01]
M20676	maleate	Lipid	99%	14.5	0.00 [0.00:0.00]	0.11 [-0.00:0.22]	0.89 [0.78:1.00]
M15872	malonate	Lipid	99%	9.3	0.21 [0.07:0.34]	0.00 [0.00:0.00]	0.79 [0.66:0.93]
M01121	margarate (17:0)	Lipid	92%	50.8	0.00 [0.00:0.00]	0.12 [0.00:0.24]	0.88 [0.76:1.00]
M01496	methylmalonate (MMA)	Lipid	80%		0.00 [0.00:0.00]	0.41 [0.21:0.61]	0.59 [0.39:0.79]
M39583	mevalonate	Lipid	88%	17.6	0.19 [0.04:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.96]
M48118	mevalonolactone	Lipid	75%	32.2	0.02 [-0.25:0.29]	0.00 [0.00:0.00]	0.98 [0.71:1.25]
M01124	myo-inositol	Lipid	98%	18.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01365	myristate (14:0)	Lipid	100%	16.7	0.17 [0.02:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.98]
M32418	myristoleate (14:1n5)	Lipid	100%	6.3	0.18 [0.04:0.33]	0.00 [0.00:0.00]	0.82 [0.67:0.96]
M01356	nonadecanoate (19:0)	Lipid	100%	42.9	0.00 [0.00:0.00]	0.11 [-0.00:0.22]	0.89 [0.78:1.00]
M36754	octadecanedioate	Lipid	87%	9.4	0.33 [0.19:0.48]	0.00 [0.00:0.00]	0.67 [0.52:0.81]
M52285	oleate/vaccenate (18:1)	Lipid	100%	21.7	0.00 [0.00:0.00]	0.09 [-0.03:0.20]	0.91 [0.80:1.03]
M38102	oleoyl ethanolamide	Lipid	97%	26.1	0.23 [0.10:0.36]	0.00 [0.00:0.00]	0.77 [0.64:0.90]
M35160	oleoylcarnitine	Lipid	44%	17.6	0.20 [-0.03:0.43]	0.00 [0.00:0.00]	0.80 [0.57:1.03]
M01336	palmitate (16:0)	Lipid	100%	35.6	0.00 [0.00:0.00]	0.13 [0.02:0.24]	0.87 [0.76:0.98]
M33447	palmitoleate (16:1n7)	Lipid	100%	15.9	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M52434	palmitoyl dihydro sphingomyelin (d18:0/16:0)*	Lipid	72%	20.9	0.14 [-0.10:0.39]	0.00 [0.00:0.00]	0.86 [0.61:1.10]
M38165	palmitoyl ethanolamide	Lipid	100%	8.6	0.19 [0.06:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.94]
M37506	palmitoyl sphingomyelin (d18:1/16:0)	Lipid	95%	30.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52245	palmitoyl-linolenoyl-glycerol (16:0/18:3)*	Lipid	50%	29.3	0.24 [0.01:0.46]	0.00 [0.00:0.00]	0.76 [0.54:0.99]
M44681	palmitoylcarnitine	Lipid	72%	19.7	0.47 [0.25:0.70]	0.00 [0.00:0.00]	0.53 [0.30:0.75]
M01361	pentadecanoate (15:0)	Lipid	75%		0.28 [0.02:0.54]	0.00 [0.00:0.00]	0.72 [0.46:0.98]
M01510	phytosphingosine	Lipid	100%	13.7	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M15704	pimelate (heptanedioate)	Lipid	65%		0.21 [-0.04:0.45]	0.00 [0.00:0.00]	0.79 [0.55:1.04]
M32619	pregn steroid monosulfate*	Lipid	20%	12.4	0.14 [-0.14:0.41]	0.00 [0.00:0.00]	0.86 [0.59:1.14]
M32562	pregnen-diol disulfate*	Lipid	27%	25.2	0.05 [-0.21:0.31]	0.00 [0.00:0.00]	0.95 [0.69:1.21]
M38271	pristanate	Lipid	91%	26.7	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M31932	propionylglycine	Lipid	91%	15	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32398	sebacate (decanedioate)	Lipid	100%	5.1	0.19 [0.06:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.94]

M17769	sphinganine	Lipid	100%	17.6	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M17747	sphingosine	Lipid	100%	10.1	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M01358	stearate (18:0)	Lipid	100%	44.7	0.19 [0.04:0.34]	0.00 [0.00:0.00]	0.81 [0.66:0.96]
M33969	stearidonate (18:4n3)	Lipid	22%	23.4	0.00 [0.00:0.00]	0.25 [0.05:0.45]	0.75 [0.55:0.95]
M38625	stearoyl ethanolamide	Lipid	100%	13.4	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M34409	stearoylcarnitine	Lipid	49%		0.54 [0.36:0.72]	0.00 [0.00:0.00]	0.46 [0.28:0.64]
M21183	stigmasterol	Lipid	34%		0.00 [0.00:0.00]	0.13 [-0.06:0.31]	0.87 [0.69:1.06]
M15730	suberate (octanedioate)	Lipid	100%	10.6	0.23 [0.10:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.90]
M18494	taurochenodeoxycholate	Lipid	63%	34	0.13 [-0.10:0.37]	0.00 [0.00:0.00]	0.87 [0.63:1.10]
M18497	taurocholate	Lipid	54%		0.17 [-0.06:0.39]	0.00 [0.00:0.00]	0.83 [0.61:1.06]
M32807	taurochenolate sulfate*	Lipid	32%		0.15 [-0.09:0.38]	0.00 [0.00:0.00]	0.85 [0.62:1.09]
M12261	taurodeoxycholate	Lipid	59%	24.4	0.20 [-0.03:0.42]	0.00 [0.00:0.00]	0.80 [0.58:1.03]
M36850	tauroolithocholate 3-sulfate	Lipid	35%		0.15 [-0.09:0.40]	0.00 [0.00:0.00]	0.85 [0.60:1.09]
M35669	tetradecanedioate	Lipid	75%	28.4	0.00 [0.00:0.00]	0.27 [0.07:0.47]	0.73 [0.53:0.93]
M40406	trimethylamine N-oxide	Lipid	100%	9.7	0.23 [0.09:0.36]	0.00 [0.00:0.00]	0.77 [0.64:0.91]
M42395	undecanedioate	Lipid	100%	8.5	0.18 [0.03:0.33]	0.00 [0.00:0.00]	0.82 [0.67:0.97]
M01605	ursodeoxycholate	Lipid	71%	13.2	0.00 [0.00:0.00]	0.07 [-0.14:0.28]	0.93 [0.72:1.14]
M52970	ursodeoxycholate sulfate (1)	Lipid	47%	9.4	0.23 [0.01:0.45]	0.00 [0.00:0.00]	0.77 [0.55:0.99]
M33443	valerate	Lipid	99%	13.1	0.13 [-0.01:0.26]	0.00 [0.00:0.00]	0.87 [0.74:1.01]
M01527	1-methyladenine	Nucleotide	100%	6.5	0.11 [-0.03:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.03]
M47391	2'-O-methyluridine	Nucleotide	95%	7.7	0.17 [0.02:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.98]
M01553	2'-deoxyadenosine	Nucleotide	95%	30.5	0.00 [0.00:0.00]	0.15 [0.03:0.26]	0.85 [0.74:0.97]
M15949	2'-deoxycytidine	Nucleotide	98%	10.8	0.00 [0.00:0.00]	0.09 [-0.02:0.21]	0.91 [0.79:1.02]
M00533	2'-deoxycytidine 5'-monophosphate	Nucleotide	40%		0.18 [-0.05:0.41]	0.00 [0.00:0.00]	0.82 [0.59:1.05]
M01411	2'-deoxyguanosine	Nucleotide	100%	7.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15076	2'-deoxyinosine	Nucleotide	100%	10.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01412	2'-deoxyuridine	Nucleotide	100%	5.4	0.17 [0.03:0.30]	0.00 [0.00:0.00]	0.83 [0.70:0.97]
M02959	3'-CMP	Nucleotide	27%		0.00 [0.00:0.00]	0.02 [-0.19:0.23]	0.98 [0.77:1.19]
M01566	3-aminoisobutyrate	Nucleotide	51%	27.1	0.18 [-0.05:0.41]	0.00 [0.00:0.00]	0.82 [0.59:1.05]
M03155	3-ureidopropionate	Nucleotide	100%	4.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M22118	4-ureidobutyrate	Nucleotide	100%	10.2	0.00 [0.00:0.00]	0.12 [0.01:0.23]	0.88 [0.77:0.99]
M01418	5,6-dihydrothymine	Nucleotide	41%	16.3	0.16 [-0.06:0.39]	0.00 [0.00:0.00]	0.84 [0.61:1.06]
M35136	5-methyluridine (ribothymidine)	Nucleotide	97%	5.8	0.15 [-0.00:0.30]	0.00 [0.00:0.00]	0.85 [0.70:1.00]
M35114	7-methylguanine	Nucleotide	100%	5.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38672	8-hydroxyguanine	Nucleotide	85%	7.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37432	N-acetyl-beta-alanine	Nucleotide	40%		0.04 [-0.20:0.27]	0.00 [0.00:0.00]	0.96 [0.73:1.20]
M01594	N-carbamoylaspartate	Nucleotide	84%	8.5	0.28 [0.12:0.44]	0.00 [0.00:0.00]	0.72 [0.56:0.88]
M15650	N1-methyladenosine	Nucleotide	35%		0.00 [0.00:0.00]	0.11 [-0.07:0.30]	0.89 [0.70:1.07]
M42081	N6,N6-dimethyladenosine	Nucleotide	74%	8.5	0.27 [0.02:0.53]	0.00 [0.00:0.00]	0.73 [0.47:0.98]
M35157	N6-carbamoylthreonyladenosine	Nucleotide	38%		0.31 [0.09:0.53]	0.00 [0.00:0.00]	0.69 [0.47:0.91]
M22120	N6-dimethylallyl adenine	Nucleotide	91%	11.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00554	adenine	Nucleotide	100%	7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00555	adenosine	Nucleotide	91%	26	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32342	adenosine 5'-monophosphate (AMP)	Nucleotide	24%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01107	allantoin	Nucleotide	69%	7	0.00 [0.00:0.00]	0.24 [0.06:0.42]	0.76 [0.58:0.94]
M00055	beta-alanine	Nucleotide	95%	45.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00514	cytidine	Nucleotide	96%	6.4	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]

M37465	cytidine 2',3'-cyclic monophosphate	Nucleotide	41%	14.9	0.18 [-0.04:0.41]	0.00 [0.00:0.00]	0.82 [0.59:1.04]
M00573	cytosine	Nucleotide	100%	8.5	0.14 [0.01:0.28]	0.00 [0.00:0.00]	0.86 [0.72:0.99]
M00601	dihydroorotate	Nucleotide	92%	14.5	0.00 [0.00:0.00]	0.22 [0.11:0.34]	0.78 [0.66:0.89]
M32352	guanine	Nucleotide	100%	6.4	0.11 [-0.02:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.02]
M01573	guanosine	Nucleotide	99%	7.3	0.22 [0.09:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.91]
M37139	guanosine-2',3'-cyclic monophosphate	Nucleotide	22%		0.22 [-0.05:0.49]	0.00 [0.00:0.00]	0.78 [0.51:1.05]
M03127	hypoxanthine	Nucleotide	100%	6.2	0.10 [-0.04:0.25]	0.00 [0.00:0.00]	0.90 [0.75:1.04]
M01123	inosine	Nucleotide	94%	7.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M37070	methylphosphate	Nucleotide	100%	14.6	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M01505	orotate	Nucleotide	100%	10.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33442	pseudouridine	Nucleotide	100%	5.5	0.15 [0.01:0.29]	0.00 [0.00:0.00]	0.85 [0.71:0.99]
M02183	thymidine	Nucleotide	100%	7.5	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M00604	thymine	Nucleotide	100%	6.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00605	uracil	Nucleotide	100%	5.2	0.15 [0.00:0.29]	0.00 [0.00:0.00]	0.85 [0.71:1.00]
M01604	urate	Nucleotide	100%	4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00606	uridine	Nucleotide	100%	9.6	0.23 [0.09:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.91]
M03147	xanthine	Nucleotide	100%	4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15136	xanthosine	Nucleotide	78%	7	0.08 [-0.22:0.38]	0.00 [0.00:0.00]	0.92 [0.62:1.22]
M53165	alanyl-glutamyl-meso-diaminopimelate	Peptide	51%		0.00 [0.00:0.00]	0.06 [-0.12:0.24]	0.94 [0.76:1.12]
M37093	alanylleucine	Peptide	99%	12.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15747	anserine	Peptide	95%	8.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M01768	carnosine	Peptide	47%	11.7	0.09 [-0.14:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.14]
M52278	gamma-glutamyl-alpha-lysine	Peptide	99%	8.7	0.24 [0.10:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.90]
M33934	gamma-glutamyl-epsilon-lysine	Peptide	99%	8.2	0.00 [0.00:0.00]	0.11 [-0.00:0.22]	0.89 [0.78:1.00]
M37063	gamma-glutamylalanine	Peptide	99%	5.3	0.24 [0.11:0.36]	0.00 [0.00:0.00]	0.76 [0.64:0.89]
M36738	gamma-glutamylglutamate	Peptide	95%	20.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33949	gamma-glutamylglycine	Peptide	81%	11.3	0.00 [0.00:0.00]	0.15 [0.01:0.29]	0.85 [0.71:0.99]
M18245	gamma-glutamylhistidine	Peptide	54%	18.8	0.09 [-0.14:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.14]
M34457	gamma-glutamylisoleucine*	Peptide	98%	8.8	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M18369	gamma-glutamylleucine	Peptide	99%	5.3	0.20 [0.06:0.33]	0.00 [0.00:0.00]	0.80 [0.67:0.94]
M44872	gamma-glutamylmethionine	Peptide	98%	8.3	0.00 [0.00:0.00]	0.20 [0.08:0.31]	0.80 [0.69:0.92]
M33422	gamma-glutamylphenylalanine	Peptide	98%	5.8	0.00 [0.00:0.00]	0.22 [0.11:0.33]	0.78 [0.67:0.89]
M02734	gamma-glutamyltyrosine	Peptide	87%	10.6	0.16 [0.01:0.32]	0.00 [0.00:0.00]	0.84 [0.68:0.99]
M43829	gamma-glutamylvaline	Peptide	79%		0.12 [-0.15:0.38]	0.00 [0.00:0.00]	0.88 [0.62:1.15]
M42994	glutamine-leucine	Peptide	22%		0.31 [0.05:0.58]	0.00 [0.00:0.00]	0.69 [0.42:0.95]
M36659	glycylisoleucine	Peptide	100%	5.6	0.00 [0.00:0.00]	0.18 [0.07:0.29]	0.82 [0.71:0.93]
M34398	glycylleucine	Peptide	100%	6.8	0.00 [0.00:0.00]	0.09 [-0.02:0.20]	0.91 [0.80:1.02]
M18357	glycylvaline	Peptide	100%	8.7	0.23 [0.09:0.36]	0.00 [0.00:0.00]	0.77 [0.64:0.91]
M42027	histidylalanine	Peptide	24%		0.00 [0.00:0.00]	0.18 [-0.04:0.40]	0.82 [0.60:1.04]
M40008	isoleucylglycine	Peptide	100%	7.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40010	leucylalanine	Peptide	99%	14.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48189	leucylglutamine*	Peptide	92%	23.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40045	leucylglycine	Peptide	98%	12.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40020	lysylleucine	Peptide	62%		0.27 [0.05:0.49]	0.00 [0.00:0.00]	0.73 [0.51:0.95]
M35126	phenylacetylglutamine	Peptide	46%	7	0.08 [-0.15:0.30]	0.00 [0.00:0.00]	0.92 [0.70:1.15]
M41374	phenylalanylalanine	Peptide	98%	16.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M41370	phenylalanylglycine	Peptide	96%	13.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]

M47231	phenylalanylthreonine	Peptide	97%	12	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40703	prolylglycine	Peptide	73%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M31530	threonylphenylalanine	Peptide	95%	13.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M43028	tryptophylglycine	Peptide	85%	15.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42079	valylglutamine	Peptide	98%	11.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40475	valylglycine	Peptide	100%	7.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M39994	valylleucine	Peptide	99%	11.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46500	X - 02249	Unknown	99%	14.8	0.12 [-0.03:0.28]	0.00 [0.00:0.00]	0.88 [0.72:1.03]
M46355	X - 09789	Unknown	67%	15.9	0.34 [0.11:0.57]	0.00 [0.00:0.00]	0.66 [0.43:0.89]
M47581	X - 10457	Unknown	87%	21.4	0.00 [0.00:0.00]	0.11 [-0.01:0.24]	0.89 [0.76:1.01]
M46347	X - 11381	Unknown	34%		0.00 [0.00:0.00]	0.16 [-0.02:0.34]	0.84 [0.66:1.02]
M46597	X - 11429	Unknown	93%	5.9	0.00 [0.00:0.00]	0.19 [0.07:0.31]	0.81 [0.69:0.93]
M46599	X - 11440	Unknown	25%	14.4	0.07 [-0.18:0.32]	0.00 [0.00:0.00]	0.93 [0.68:1.18]
M46604	X - 11538	Unknown	62%		0.00 [0.00:0.00]	0.03 [-0.16:0.21]	0.97 [0.79:1.16]
M47431	X - 11612	Unknown	88%	7	0.17 [0.01:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.99]
M47497	X - 11640	Unknown	28%	9.3	0.15 [-0.11:0.40]	0.00 [0.00:0.00]	0.85 [0.60:1.11]
M47905	X - 12026	Unknown	36%	6	0.12 [-0.12:0.35]	0.00 [0.00:0.00]	0.88 [0.65:1.12]
M47686	X - 12096	Unknown	76%	5.2	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47685	X - 12097	Unknown	87%	7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47687	X - 12100	Unknown	96%	9.9	0.18 [0.05:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.95]
M47642	X - 12101	Unknown	97%	6.5	0.00 [0.00:0.00]	0.15 [0.04:0.26]	0.85 [0.74:0.96]
M47695	X - 12117	Unknown	76%	23.3	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47643	X - 12125	Unknown	31%		0.00 [0.00:0.00]	0.16 [-0.02:0.35]	0.84 [0.65:1.02]
M47706	X - 12199	Unknown	64%	19	0.00 [0.00:0.00]	0.22 [0.04:0.40]	0.78 [0.60:0.96]
M47639	X - 12456	Unknown	24%		0.00 [0.00:0.00]	0.13 [-0.07:0.34]	0.87 [0.66:1.07]
M47437	X - 12680	Unknown	89%	9.1	0.00 [0.00:0.00]	0.12 [-0.00:0.25]	0.88 [0.75:1.00]
M47718	X - 12688	Unknown	62%	12.9	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47954	X - 12879	Unknown	71%	9.7	0.16 [-0.09:0.42]	0.00 [0.00:0.00]	0.84 [0.58:1.09]
M47203	X - 13007	Unknown	98%	6.4	0.18 [0.03:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.97]
M47439	X - 13507	Unknown	89%	5.9	0.17 [0.01:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.99]
M47791	X - 13696	Unknown	25%	12.4	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M46646	X - 13835	Unknown	85%	7.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46632	X - 14056	Unknown	99%	6.3	0.00 [0.00:0.00]	0.10 [-0.01:0.21]	0.90 [0.79:1.01]
M47211	X - 14095	Unknown	78%	11.1	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47217	X - 14141	Unknown	99%	8.8	0.00 [0.00:0.00]	0.11 [0.00:0.23]	0.89 [0.77:1.00]
M47219	X - 14196	Unknown	87%	9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47222	X - 14237	Unknown	54%	14.7	0.31 [0.09:0.53]	0.00 [0.00:0.00]	0.69 [0.47:0.91]
M47223	X - 14254	Unknown	98%	7.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47224	X - 14263	Unknown	100%	6.7	0.20 [0.07:0.33]	0.00 [0.00:0.00]	0.80 [0.67:0.93]
M47255	X - 14264	Unknown	80%	25	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47226	X - 14302	Unknown	100%	5.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47225	X - 14314	Unknown	100%	6.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47227	X - 14337	Unknown	92%	14.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46463	X - 14364	Unknown	98%	5.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47230	X - 14383	Unknown	98%	7.7	0.17 [0.03:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.97]
M47233	X - 14392	Unknown	96%	13.2	0.00 [0.00:0.00]	0.21 [0.09:0.32]	0.79 [0.68:0.91]
M47237	X - 14416	Unknown	71%		0.00 [0.00:0.00]	0.30 [0.12:0.48]	0.70 [0.52:0.88]
M47239	X - 14454	Unknown	97%	8.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47247	X - 14502	Unknown	86%	13.1	0.00 [0.00:0.00]	0.16 [0.04:0.29]	0.84 [0.71:0.96]
M47218	X - 14697	Unknown	100%	8.2	0.00 [0.00:0.00]	0.19 [0.08:0.30]	0.81 [0.70:0.92]

M47787	X - 14838	Unknown	100%	4	0.23 [0.08:0.38]	0.00 [0.00:0.00]	0.77 [0.62:0.92]
M47254	X - 14900	Unknown	67%		0.18 [-0.06:0.42]	0.00 [0.00:0.00]	0.82 [0.58:1.06]
M47204	X - 14904	Unknown	98%	6.5	0.14 [0.00:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.00]
M47619	X - 15136	Unknown	89%	9.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47259	X - 15150	Unknown	37%		0.12 [-0.12:0.36]	0.00 [0.00:0.00]	0.88 [0.64:1.12]
M46661	X - 15245	Unknown	54%	41.4	0.20 [-0.02:0.43]	0.00 [0.00:0.00]	0.80 [0.57:1.02]
M46283	X - 15461	Unknown	100%	10.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46473	X - 15497	Unknown	70%	9.3	0.18 [-0.07:0.43]	0.00 [0.00:0.00]	0.82 [0.57:1.07]
M47261	X - 15608	Unknown	57%		0.00 [0.00:0.00]	0.23 [0.06:0.40]	0.77 [0.60:0.94]
M47800	X - 15666	Unknown	91%	10.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47263	X - 15806	Unknown	58%		0.00 [0.00:0.00]	0.18 [-0.00:0.35]	0.82 [0.65:1.00]
M47265	X - 15843	Unknown	97%	7.3	0.13 [-0.02:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.02]
M47266	X - 15853	Unknown	99%	5.7	0.20 [0.06:0.34]	0.00 [0.00:0.00]	0.80 [0.66:0.94]
M47267	X - 15854	Unknown	92%	10	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47268	X - 15856	Unknown	99%	4.7	0.26 [0.12:0.40]	0.00 [0.00:0.00]	0.74 [0.60:0.88]
M47275	X - 16343	Unknown	95%	12.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47277	X - 16391	Unknown	88%	15.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46677	X - 16654	Unknown	42%	77.8	0.07 [-0.16:0.30]	0.00 [0.00:0.00]	0.93 [0.70:1.16]
M46517	X - 16946	Unknown	59%	25.2	0.18 [-0.05:0.40]	0.00 [0.00:0.00]	0.82 [0.60:1.05]
M47545	X - 17009	Unknown	99%	5.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46689	X - 17145	Unknown	96%	5.2	0.19 [0.05:0.33]	0.00 [0.00:0.00]	0.81 [0.67:0.95]
M47806	X - 17162	Unknown	95%	9.4	0.24 [0.10:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.90]
M40097	X - 17299	Unknown	88%	8.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47809	X - 17303	Unknown	83%	8.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46989	X - 17348	Unknown	31%	13.3	0.16 [-0.07:0.39]	0.00 [0.00:0.00]	0.84 [0.61:1.07]
M47999	X - 17349	Unknown	52%	10.4	0.00 [0.00:0.00]	0.22 [0.04:0.39]	0.78 [0.61:0.96]
M46705	X - 17438	Unknown	99%	7.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46706	X - 17469	Unknown	37%	26.4	0.14 [-0.09:0.37]	0.00 [0.00:0.00]	0.86 [0.63:1.09]
M46707	X - 17653	Unknown	94%	13.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47280	X - 17739	Unknown	95%	8.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47283	X - 17749	Unknown	98%	6.6	0.00 [0.00:0.00]	0.15 [0.04:0.27]	0.85 [0.73:0.96]
M47291	X - 17807	Unknown	100%	5.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47298	X - 17852	Unknown	78%	12.7	0.29 [0.03:0.54]	0.00 [0.00:0.00]	0.71 [0.46:0.97]
M47307	X - 17877	Unknown	94%	10.4	0.00 [0.00:0.00]	0.10 [-0.02:0.22]	0.90 [0.78:1.02]
M47316	X - 17910	Unknown	85%	18.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47317	X - 17919	Unknown	86%	13.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47320	X - 17960	Unknown	98%	6.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47323	X - 17969	Unknown	97%	14.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47328	X - 17978	Unknown	86%	16.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47330	X - 17983	Unknown	67%		0.04 [-0.20:0.28]	0.00 [0.00:0.00]	0.96 [0.72:1.20]
M47335	X - 18162	Unknown	62%		0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M47337	X - 18165	Unknown	81%	16.2	0.16 [-0.01:0.33]	0.00 [0.00:0.00]	0.84 [0.67:1.01]
M47836	X - 18307	Unknown	45%	11	0.11 [-0.11:0.33]	0.00 [0.00:0.00]	0.89 [0.67:1.11]
M47346	X - 18410	Unknown	51%	5.6	0.13 [-0.10:0.36]	0.00 [0.00:0.00]	0.87 [0.64:1.10]
M47347	X - 18889	Unknown	71%	17	0.05 [-0.21:0.31]	0.00 [0.00:0.00]	0.95 [0.69:1.21]
M47352	X - 19220	Unknown	50%	19.4	0.23 [0.00:0.45]	0.00 [0.00:0.00]	0.77 [0.55:1.00]
M47353	X - 19232	Unknown	100%	5.6	0.00 [0.00:0.00]	0.17 [0.06:0.28]	0.83 [0.72:0.94]
M47673	X - 19299	Unknown	80%	5.7	0.00 [0.00:0.00]	0.12 [-0.11:0.34]	0.88 [0.66:1.11]
M47675	X - 19497	Unknown	67%	8.8	0.00 [0.00:0.00]	0.20 [0.01:0.38]	0.80 [0.62:0.99]
M47358	X - 19751	Unknown	79%	17.3	0.00 [0.00:0.00]	0.26 [0.05:0.47]	0.74 [0.53:0.95]

M47359	X - 19763	Unknown	66%	10.2	0.00 [0.00:0.00]	0.19 [0.01:0.37]	0.81 [0.63:0.99]
M47380	X - 19931	Unknown	92%	7.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47381	X - 19932	Unknown	49%		0.09 [-0.13:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.13]
M47197	X - 20100	Unknown	96%	8.5	0.23 [0.09:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.91]
M47196	X - 20172	Unknown	90%	15	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47195	X - 20185	Unknown	99%	6.1	0.00 [0.00:0.00]	0.14 [0.03:0.26]	0.86 [0.74:0.97]
M47194	X - 20197	Unknown	96%	12.9	0.17 [0.02:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.98]
M47183	X - 20747	Unknown	94%	15.9	0.00 [0.00:0.00]	0.12 [0.00:0.24]	0.88 [0.76:1.00]
M46285	X - 21283	Unknown	42%		0.28 [0.05:0.50]	0.00 [0.00:0.00]	0.72 [0.50:0.95]
M46371	X - 21327	Unknown	79%	25.5	0.16 [-0.10:0.43]	0.00 [0.00:0.00]	0.84 [0.57:1.10]
M46398	X - 21353	Unknown	25%		0.04 [-0.25:0.34]	0.00 [0.00:0.00]	0.96 [0.66:1.25]
M46455	X - 21410	Unknown	46%	16	0.12 [-0.10:0.34]	0.00 [0.00:0.00]	0.88 [0.66:1.10]
M46487	X - 21442	Unknown	24%	13.9	0.35 [0.09:0.61]	0.00 [0.00:0.00]	0.65 [0.39:0.91]
M46493	X - 21448	Unknown	92%	18.4	0.16 [0.01:0.31]	0.00 [0.00:0.00]	0.84 [0.69:0.99]
M46515	X - 21470	Unknown	34%	12.6	0.00 [0.00:0.00]	0.14 [-0.04:0.33]	0.86 [0.67:1.04]
M46738	X - 21664	Unknown	100%	5.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M46898	X - 21729	Unknown	99%	11.9	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M46964	X - 21788	Unknown	32%	11.5	0.00 [0.00:0.00]	0.20 [0.02:0.39]	0.80 [0.61:0.98]
M46972	X - 21796	Unknown	100%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47205	X - 21959	Unknown	52%	24.2	0.16 [-0.07:0.39]	0.00 [0.00:0.00]	0.84 [0.61:1.07]
M47276	X - 22030	Unknown	95%	9.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47308	X - 22062	Unknown	63%		0.07 [-0.17:0.30]	0.00 [0.00:0.00]	0.93 [0.70:1.17]
M47388	X - 22142	Unknown	91%	15.4	0.30 [0.17:0.44]	0.00 [0.00:0.00]	0.70 [0.56:0.83]
M47392	X - 22146	Unknown	61%	15.9	0.05 [-0.19:0.28]	0.00 [0.00:0.00]	0.95 [0.72:1.19]
M48186	X - 22835	Unknown	89%	8.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48191	X - 22836	Unknown	55%	22.2	0.18 [-0.04:0.41]	0.00 [0.00:0.00]	0.82 [0.59:1.04]
M48660	X - 23115	Unknown	62%	35.7	0.00 [0.00:0.00]	0.29 [0.11:0.47]	0.71 [0.53:0.89]
M48773	X - 23159	Unknown	46%	31	0.28 [0.07:0.50]	0.00 [0.00:0.00]	0.72 [0.50:0.93]
M48774	X - 23160	Unknown	28%	10.4	0.00 [0.00:0.00]	0.10 [-0.09:0.30]	0.90 [0.70:1.09]
M48853	X - 23173	Unknown	95%	11.2	0.15 [0.00:0.29]	0.00 [0.00:0.00]	0.85 [0.71:1.00]
M48889	X - 23193	Unknown	65%		0.00 [0.00:0.00]	0.12 [-0.08:0.32]	0.88 [0.68:1.08]
M48892	X - 23196	Unknown	93%	18.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48973	X - 23277	Unknown	70%	18.5	0.00 [0.00:0.00]	0.01 [-0.18:0.20]	0.99 [0.80:1.18]
M48994	X - 23295	Unknown	57%	27.9	0.00 [0.00:0.00]	0.16 [-0.02:0.33]	0.84 [0.67:1.02]
M49008	X - 23308	Unknown	98%	24.4	0.00 [0.00:0.00]	0.15 [0.03:0.26]	0.85 [0.74:0.97]
M49228	X - 23369	Unknown	99%	6.8	0.16 [0.03:0.30]	0.00 [0.00:0.00]	0.84 [0.70:0.97]
M49298	X - 23438	Unknown	100%	5.1	0.12 [-0.03:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.03]
M49311	X - 23451	Unknown	27%		0.00 [0.00:0.00]	0.30 [0.11:0.48]	0.70 [0.52:0.89]
M49316	X - 23456	Unknown	22%	14	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49329	X - 23469	Unknown	85%	8.9	0.00 [0.00:0.00]	0.22 [0.10:0.35]	0.78 [0.65:0.90]
M49330	X - 23470	Unknown	29%		0.24 [-0.00:0.49]	0.00 [0.00:0.00]	0.76 [0.51:1.00]
M49335	X - 23475	Unknown	73%	25.5	0.00 [0.00:0.00]	0.24 [0.03:0.45]	0.76 [0.55:0.97]
M49342	X - 23482	Unknown	99%	5.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49383	X - 23507	Unknown	96%	5.3	0.00 [0.00:0.00]	0.14 [0.03:0.26]	0.86 [0.74:0.97]
M49457	X - 23581	Unknown	95%	14.2	0.00 [0.00:0.00]	0.13 [0.02:0.25]	0.87 [0.75:0.98]
M49459	X - 23583	Unknown	98%	10.8	0.13 [-0.02:0.28]	0.00 [0.00:0.00]	0.87 [0.72:1.02]
M49460	X - 23584	Unknown	58%		0.02 [-0.21:0.26]	0.00 [0.00:0.00]	0.98 [0.74:1.21]
M49461	X - 23585	Unknown	95%	4.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49463	X - 23587	Unknown	99%	6.1	0.23 [0.09:0.37]	0.00 [0.00:0.00]	0.77 [0.63:0.91]
M49476	X - 23600	Unknown	100%	4.9	0.00 [0.00:0.00]	0.27 [0.16:0.37]	0.73 [0.63:0.84]

M49513	X - 23637	Unknown	91%	31.9	0.15 [-0.01:0.31]	0.00 [0.00:0.00]	0.85 [0.69:1.01]
M49515	X - 23639	Unknown	88%	24.4	0.12 [-0.03:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.03]
M49529	X - 23652	Unknown	99%	6.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49532	X - 23655	Unknown	99%	5.4	0.11 [-0.03:0.26]	0.00 [0.00:0.00]	0.89 [0.74:1.03]
M49534	X - 23657	Unknown	92%	3.6	0.16 [-0.00:0.31]	0.00 [0.00:0.00]	0.84 [0.69:1.00]
M49539	X - 23662	Unknown	99%	4.5	0.00 [0.00:0.00]	0.08 [-0.03:0.20]	0.92 [0.80:1.03]
M49542	X - 23665	Unknown	100%	4.9	0.00 [0.00:0.00]	0.15 [0.04:0.26]	0.85 [0.74:0.96]
M49588	X - 23710	Unknown	54%	21.2	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M49626	X - 23728	Unknown	71%	28.3	0.34 [0.11:0.58]	0.00 [0.00:0.00]	0.66 [0.42:0.89]
M49627	X - 23729	Unknown	100%	5.6	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M49630	X - 23732	Unknown	30%	7.8	0.00 [0.00:0.00]	0.03 [-0.17:0.24]	0.97 [0.76:1.17]
M49631	X - 23733	Unknown	61%	13.8	0.11 [-0.13:0.35]	0.00 [0.00:0.00]	0.89 [0.65:1.13]
M49632	X - 23734	Unknown	54%		0.40 [0.19:0.60]	0.00 [0.00:0.00]	0.60 [0.40:0.81]
M49634	X - 23736	Unknown	95%	12.9	0.24 [0.11:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.89]
M49635	X - 23737	Unknown	83%		0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49636	X - 23738	Unknown	99%	14.8	0.00 [0.00:0.00]	0.16 [0.05:0.27]	0.84 [0.73:0.95]
M49645	X - 23747	Unknown	99%	5.2	0.24 [0.09:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.91]
M49646	X - 23748	Unknown	100%	7.4	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M49650	X - 23752	Unknown	78%	20.5	0.22 [-0.04:0.49]	0.00 [0.00:0.00]	0.78 [0.51:1.04]
M49651	X - 23753	Unknown	100%	24.7	0.00 [0.00:0.00]	0.17 [0.06:0.28]	0.83 [0.72:0.94]
M49665	X - 23767	Unknown	65%		0.23 [-0.01:0.46]	0.00 [0.00:0.00]	0.77 [0.54:1.01]
M49675	X - 23776	Unknown	99%	4.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49679	X - 23780	Unknown	72%	15	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M49681	X - 23782	Unknown	100%	7.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49834	X - 23925	Unknown	95%	10.2	0.15 [0.01:0.30]	0.00 [0.00:0.00]	0.85 [0.70:0.99]
M49883	X - 23974	Unknown	77%	30.6	0.00 [0.00:0.00]	0.14 [-0.07:0.35]	0.86 [0.65:1.07]
M52052	X - 24023	Unknown	83%	23.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52056	X - 24027	Unknown	100%	8.8	0.12 [-0.03:0.26]	0.00 [0.00:0.00]	0.88 [0.74:1.03]
M52106	X - 24077	Unknown	88%	9.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52206	X - 24177	Unknown	99%	6.1	0.00 [0.00:0.00]	0.15 [0.03:0.26]	0.85 [0.74:0.97]
M52243	X - 24207	Unknown	100%	19.4	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M52247	X - 24211	Unknown	81%	27.8	0.20 [0.03:0.37]	0.00 [0.00:0.00]	0.80 [0.63:0.97]
M52248	X - 24212	Unknown	90%	27.5	0.00 [0.00:0.00]	0.15 [0.03:0.27]	0.85 [0.73:0.97]
M52251	X - 24215	Unknown	60%	19.9	0.00 [0.00:0.00]	0.06 [-0.12:0.24]	0.94 [0.76:1.12]
M52252	X - 24216	Unknown	70%	10.5	0.34 [0.10:0.58]	0.00 [0.00:0.00]	0.66 [0.42:0.90]
M52257	X - 24220	Unknown	100%	5.4	0.00 [0.00:0.00]	0.14 [0.03:0.25]	0.86 [0.75:0.97]
M52268	X - 24231	Unknown	83%	8.4	0.24 [0.08:0.40]	0.00 [0.00:0.00]	0.76 [0.60:0.92]
M52271	X - 24234	Unknown	27%		0.13 [-0.13:0.38]	0.00 [0.00:0.00]	0.87 [0.62:1.13]
M52276	X - 24238	Unknown	100%	7.1	0.14 [0.00:0.27]	0.00 [0.00:0.00]	0.86 [0.73:1.00]
M52286	X - 24243	Unknown	61%	55.3	0.00 [0.00:0.00]	0.25 [0.07:0.43]	0.75 [0.57:0.93]
M52289	X - 24246	Unknown	61%	7.9	0.00 [0.00:0.00]	0.25 [0.08:0.43]	0.75 [0.57:0.92]
M52637	X - 24408	Unknown	94%	8	0.22 [0.07:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.93]
M52639	X - 24410	Unknown	98%	11.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52641	X - 24412	Unknown	56%	17.2	0.27 [0.05:0.49]	0.00 [0.00:0.00]	0.73 [0.51:0.95]
M52642	X - 24413	Unknown	81%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52655	X - 24425	Unknown	100%	6.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52661	X - 24431	Unknown	26%		0.00 [0.00:0.00]	0.15 [-0.05:0.35]	0.85 [0.65:1.05]
M52766	X - 24449	Unknown	71%	21.2	0.34 [0.11:0.57]	0.00 [0.00:0.00]	0.66 [0.43:0.89]
M52772	X - 24455	Unknown	99%	6.9	0.11 [-0.04:0.26]	0.00 [0.00:0.00]	0.89 [0.74:1.04]
M52773	X - 24456	Unknown	48%	19.9	0.00 [0.00:0.00]	0.11 [-0.07:0.29]	0.89 [0.71:1.07]

M52782	X - 24465	Unknown	97%	34.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52791	X - 24474	Unknown	99%	14.9	0.16 [0.02:0.29]	0.00 [0.00:0.00]	0.84 [0.71:0.98]
M52833	X - 24512	Unknown	94%	23.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52850	X - 24529	Unknown	100%	5.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52867	X - 24546	Unknown	37%	12	0.00 [0.00:0.00]	0.17 [-0.01:0.35]	0.83 [0.65:1.01]
M52871	X - 24550	Unknown	31%	18.7	0.00 [-0.24:0.24]	0.00 [0.00:0.00]	1.00 [0.76:1.24]
M52879	X - 24558	Unknown	45%	12.2	0.00 [0.00:0.00]	0.09 [-0.09:0.27]	0.91 [0.73:1.09]
M53023	X - 24608	Unknown	93%	8.2	0.13 [-0.02:0.28]	0.00 [0.00:0.00]	0.87 [0.72:1.02]
M53086	X - 24658	Unknown	22%	12.1	0.00 [0.00:0.00]	0.10 [-0.11:0.32]	0.90 [0.68:1.11]
M53106	X - 24678	Unknown	100%	14.8	0.28 [0.15:0.41]	0.00 [0.00:0.00]	0.72 [0.59:0.85]
M53110	X - 24682	Unknown	75%	51.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53111	X - 24683	Unknown	98%	12.3	0.15 [0.01:0.29]	0.00 [0.00:0.00]	0.85 [0.71:0.99]
M53114	X - 24686	Unknown	100%	11.3	0.27 [0.14:0.41]	0.00 [0.00:0.00]	0.73 [0.59:0.86]
M53121	X - 24693	Unknown	23%		0.13 [-0.14:0.40]	0.00 [0.00:0.00]	0.87 [0.60:1.14]
M53125	X - 24697	Unknown	100%	13.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53127	X - 24699	Unknown	88%	13.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53156	X - 24727	Unknown	35%		0.00 [0.00:0.00]	0.16 [-0.03:0.34]	0.84 [0.66:1.03]
M53158	X - 24729	Unknown	86%	16.9	0.00 [0.00:0.00]	0.15 [0.02:0.28]	0.85 [0.72:0.98]
M53172	X - 24736	Unknown	48%		0.00 [0.00:0.00]	0.15 [-0.03:0.32]	0.85 [0.68:1.03]
M53214	X - 24738	Unknown	42%	8.8	0.11 [-0.12:0.34]	0.00 [0.00:0.00]	0.89 [0.66:1.12]
M53234	X - 24743	Unknown	59%		0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M54687	X - 24753	Unknown	91%	11.5	0.22 [0.07:0.36]	0.00 [0.00:0.00]	0.78 [0.64:0.93]
M54701	X - 24763	Unknown	76%	22.5	0.08 [-0.19:0.35]	0.00 [0.00:0.00]	0.92 [0.65:1.19]
M54704	X - 24766	Unknown	98%	8.1	0.16 [0.02:0.29]	0.00 [0.00:0.00]	0.84 [0.71:0.98]
M54705	X - 24767	Unknown	59%	10.9	0.15 [-0.08:0.37]	0.00 [0.00:0.00]	0.85 [0.63:1.08]
M54831	X - 24803	Unknown	100%	18.3	0.14 [0.01:0.28]	0.00 [0.00:0.00]	0.86 [0.72:0.99]
M54832	X - 24804	Unknown	100%	7.5	0.00 [0.00:0.00]	0.10 [-0.01:0.21]	0.90 [0.79:1.01]
M54834	X - 24806	Unknown	100%	12.9	0.13 [-0.01:0.27]	0.00 [0.00:0.00]	0.87 [0.73:1.01]
M54837	X - 24809	Unknown	48%	19.6	0.00 [0.00:0.00]	0.27 [0.10:0.44]	0.73 [0.56:0.90]
M54838	X - 24810	Unknown	24%		0.00 [0.00:0.00]	0.06 [-0.15:0.27]	0.94 [0.73:1.15]
M54839	X - 24811	Unknown	98%	9	0.18 [0.03:0.33]	0.00 [0.00:0.00]	0.82 [0.67:0.97]
M54841	X - 24813	Unknown	99%	10.4	0.18 [0.04:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.96]
M54857	X - 24829	Unknown	99%	6.7	0.21 [0.07:0.36]	0.00 [0.00:0.00]	0.79 [0.64:0.93]
M54859	X - 24831	Unknown	100%	21.4	0.18 [0.05:0.32]	0.00 [0.00:0.00]	0.82 [0.68:0.95]
M54860	X - 24832	Unknown	91%	22.9	0.24 [0.09:0.38]	0.00 [0.00:0.00]	0.76 [0.62:0.91]
M54881	X - 24853	Unknown	48%	8.6	0.21 [-0.02:0.43]	0.00 [0.00:0.00]	0.79 [0.57:1.02]
M54882	X - 24854	Unknown	34%	6.8	0.06 [-0.17:0.30]	0.00 [0.00:0.00]	0.94 [0.70:1.17]
M54883	X - 24855	Unknown	99%	7.6	0.00 [0.00:0.00]	0.13 [0.02:0.24]	0.87 [0.76:0.98]
M34404	1,3,7-trimethylurate	Xenobiotics	100%	11.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M32391	1,3-dimethylurate	Xenobiotics	94%	4.9	0.25 [0.10:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.90]
M45434	1,3-propanediol	Xenobiotics	86%	25.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M34400	1,7-dimethylurate	Xenobiotics	88%	5.2	0.18 [0.02:0.34]	0.00 [0.00:0.00]	0.82 [0.66:0.98]
M40506	1-(3-aminopropyl)-2-pyrrolidone	Xenobiotics	62%	25.3	0.00 [0.00:0.00]	0.04 [-0.14:0.22]	0.96 [0.78:1.14]
M43449	1-methyl-beta-carboline-3-carboxylic acid	Xenobiotics	84%	11.1	0.00 [0.00:0.00]	0.12 [-0.02:0.25]	0.88 [0.75:1.02]
M34395	1-methylurate	Xenobiotics	67%	18	0.37 [0.15:0.59]	0.00 [0.00:0.00]	0.63 [0.41:0.85]
M34389	1-methylxanthine	Xenobiotics	58%	5.8	0.09 [-0.14:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.14]
M40464	1H-quinolin-2-one	Xenobiotics	53%	7.3	0.12 [-0.10:0.35]	0.00 [0.00:0.00]	0.88 [0.65:1.10]
M38276	2,3-dihydroxyisovalerate	Xenobiotics	95%	8.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35892	2,4,6-trihydroxybenzoate	Xenobiotics	84%	14.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]

M47113	2,4-dihydroxyhydrocinnamic acid	Xenobiotics	34%	21.9	0.01 [-0.23:0.25]	0.00 [0.00:0.00]	0.99 [0.75:1.23]
M42975	2,8-quinolinediol	Xenobiotics	30%	24.1	0.15 [-0.08:0.39]	0.00 [0.00:0.00]	0.85 [0.61:1.08]
M53232	2-acetamidobutanoate	Xenobiotics	76%	22.3	0.50 [0.28:0.72]	0.00 [0.00:0.00]	0.50 [0.28:0.72]
M15667	2-isopropylmalate	Xenobiotics	99%	16.5	0.00 [0.00:0.00]	0.15 [0.03:0.26]	0.85 [0.74:0.97]
M48141	2-keto-3-deoxy-gluconate	Xenobiotics	93%	21.9	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M40479	2-oxindole-3-acetate	Xenobiotics	98%	5.8	0.11 [-0.03:0.25]	0.00 [0.00:0.00]	0.89 [0.75:1.03]
M40452	2-oxo-1-pyrrolidinepropionate	Xenobiotics	99%	22	0.17 [0.03:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.97]
M43400	2-piperidinone	Xenobiotics	100%	17.6	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M31675	2-pyrrolidinone	Xenobiotics	56%		0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M18292	3,4-dihydroxybenzoate	Xenobiotics	86%	24	0.21 [0.03:0.38]	0.00 [0.00:0.00]	0.79 [0.62:0.97]
M37508	3,5-dihydroxybenzoic acid	Xenobiotics	70%	14.3	0.05 [-0.22:0.32]	0.00 [0.00:0.00]	0.95 [0.68:1.22]
M34399	3,7-dimethylurate	Xenobiotics	92%	10	0.00 [0.00:0.00]	0.10 [-0.02:0.22]	0.90 [0.78:1.02]
M35634	3-(2-hydroxyphenyl)propionate	Xenobiotics	56%	21.1	0.00 [0.00:0.00]	0.13 [-0.04:0.31]	0.87 [0.69:1.04]
M15673	3-hydroxybenzoate	Xenobiotics	45%		0.41 [0.21:0.62]	0.00 [0.00:0.00]	0.59 [0.38:0.79]
M21169	3-hydroxypyridine	Xenobiotics	100%	9.7	0.14 [-0.00:0.28]	0.00 [0.00:0.00]	0.86 [0.72:1.00]
M43496	3-hydroxyquinine	Xenobiotics	24%	13.8	0.00 [0.00:0.00]	0.36 [0.18:0.55]	0.64 [0.45:0.82]
M48252	3-methylurate*	Xenobiotics	29%		0.00 [0.00:0.00]	0.11 [-0.09:0.30]	0.89 [0.70:1.09]
M32445	3-methylxanthine	Xenobiotics	59%	11.6	0.16 [-0.06:0.39]	0.00 [0.00:0.00]	0.84 [0.61:1.06]
M12032	4-acetamidophenol	Xenobiotics	32%	8.5	0.50 [0.29:0.70]	0.00 [0.00:0.00]	0.50 [0.30:0.71]
M21133	4-hydroxybenzoate	Xenobiotics	56%	28.2	0.41 [0.21:0.61]	0.00 [0.00:0.00]	0.59 [0.39:0.79]
M34424	5-acetylamino-6-amino-3-methyluracil	Xenobiotics	99%	5.1	0.00 [0.00:0.00]	0.30 [0.20:0.41]	0.70 [0.59:0.80]
M34401	5-acetylamino-6-formylamino-3-methyluracil	Xenobiotics	67%	16.4	0.49 [0.28:0.70]	0.00 [0.00:0.00]	0.51 [0.30:0.72]
M43231	6-oxopiperidine-2-carboxylic acid	Xenobiotics	100%	26.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M39598	7-methylurate	Xenobiotics	60%	25.6	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M34390	7-methylxanthine	Xenobiotics	59%	16.5	0.04 [-0.19:0.28]	0.00 [0.00:0.00]	0.96 [0.72:1.19]
M38749	N-carbamylglutamate	Xenobiotics	93%	9.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M47101	N-methylpipercolate	Xenobiotics	100%	4.1	0.25 [0.11:0.39]	0.00 [0.00:0.00]	0.75 [0.61:0.89]
M43506	N-propionylmethionine	Xenobiotics	97%	9	0.00 [0.00:0.00]	0.14 [0.03:0.26]	0.86 [0.74:0.97]
M45413	O-sulfo-L-tyrosine	Xenobiotics	76%	7.7	0.00 [0.00:0.00]	0.42 [0.23:0.61]	0.58 [0.39:0.77]
M48569	acesulfame	Xenobiotics	32%	8	0.00 [0.00:0.00]	0.20 [0.01:0.39]	0.80 [0.61:0.99]
M21189	apigenin	Xenobiotics	23%	19	0.12 [-0.16:0.39]	0.00 [0.00:0.00]	0.88 [0.61:1.16]
M38652	astaxanthin	Xenobiotics	27%		0.00 [0.00:0.00]	0.06 [-0.15:0.27]	0.94 [0.73:1.15]
M15778	benzoate	Xenobiotics	97%	25.8	0.00 [0.00:0.00]	0.13 [0.01:0.24]	0.87 [0.76:0.99]
M52273	beta-carotene	Xenobiotics	66%		0.00 [0.00:0.00]	0.29 [0.11:0.46]	0.71 [0.54:0.89]
M49663	beta-cryptoxanthin	Xenobiotics	99%	14.5	0.00 [0.00:0.00]	0.15 [0.04:0.27]	0.85 [0.73:0.96]
M35101	beta-guanidinopropanoate	Xenobiotics	90%	6	0.00 [0.00:0.00]	0.12 [-0.00:0.24]	0.88 [0.76:1.00]
M41609	bufotenine	Xenobiotics	28%	16	0.00 [0.00:0.00]	0.03 [-0.17:0.22]	0.97 [0.78:1.17]
M21177	caffeate	Xenobiotics	88%	7.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00569	caffeine	Xenobiotics	80%	12.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M49647	carotene diol (2)	Xenobiotics	100%	22.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15125	ciliatine (2-aminoethylphosphonate)	Xenobiotics	60%	27.8	0.09 [-0.14:0.32]	0.00 [0.00:0.00]	0.91 [0.68:1.14]
M12115	cinnamate	Xenobiotics	54%	13.2	0.16 [-0.07:0.38]	0.00 [0.00:0.00]	0.84 [0.62:1.07]
M32453	daidzein	Xenobiotics	74%	6.3	0.20 [-0.05:0.45]	0.00 [0.00:0.00]	0.80 [0.55:1.05]
M52267	deoxymugineic acid	Xenobiotics	63%	11	0.02 [-0.22:0.27]	0.00 [0.00:0.00]	0.98 [0.73:1.22]
M15130	diaminopimelate	Xenobiotics	88%	8.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M20691	diethanolamine	Xenobiotics	93%	17.8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M21046	digalacturonic acid	Xenobiotics	66%	11.7	0.00 [0.00:0.00]	0.08 [-0.12:0.27]	0.92 [0.73:1.12]

M40700	diglycerol	Xenobiotics	100%	11.6	0.17 [0.03:0.31]	0.00 [0.00:0.00]	0.83 [0.69:0.97]
M40481	dihydroferulic acid	Xenobiotics	97%	7.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M15135	dipicolinate	Xenobiotics	90%	37.3	0.26 [0.11:0.40]	0.00 [0.00:0.00]	0.74 [0.60:0.89]
M35651	ectoine	Xenobiotics	97%	6.6	0.00 [0.00:0.00]	0.10 [-0.01:0.22]	0.90 [0.78:1.01]
M39630	enterodiol	Xenobiotics	42%	10.7	0.12 [-0.10:0.35]	0.00 [0.00:0.00]	0.88 [0.65:1.10]
M39626	enterolactone	Xenobiotics	99%	5.5	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M17774	epicatechin	Xenobiotics	44%	30.2	0.00 [0.00:0.00]	0.13 [-0.04:0.31]	0.87 [0.69:1.04]
M35630	ferulate	Xenobiotics	99%	6.2	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38313	fucitol	Xenobiotics	51%		0.00 [0.00:0.00]	0.19 [0.02:0.37]	0.81 [0.63:0.98]
M20758	galacturonate	Xenobiotics	100%	5.8	0.32 [0.19:0.46]	0.00 [0.00:0.00]	0.68 [0.54:0.81]
M00587	gluconate	Xenobiotics	92%	17.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M53163	glutamyl-meso-diaminopimelate	Xenobiotics	80%	11.7	0.00 [0.00:0.00]	0.05 [-0.18:0.28]	0.95 [0.72:1.18]
M27536	harmame	Xenobiotics	79%	22.7	0.19 [-0.08:0.46]	0.00 [0.00:0.00]	0.81 [0.54:1.08]
M27514	hesperetin	Xenobiotics	49%	8.3	0.00 [0.00:0.00]	0.10 [-0.07:0.28]	0.90 [0.72:1.07]
M21300	hesperidin	Xenobiotics	23%	77.9	0.21 [-0.06:0.48]	0.00 [0.00:0.00]	0.79 [0.52:1.06]
M43374	indolin-2-one	Xenobiotics	100%	9.5	0.25 [0.12:0.38]	0.00 [0.00:0.00]	0.75 [0.62:0.88]
M22177	levulinate (4-oxovalerate)	Xenobiotics	100%	16.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M42094	luteolinidin	Xenobiotics	32%		0.25 [0.02:0.49]	0.00 [0.00:0.00]	0.75 [0.51:0.98]
M46144	methyl glucopyranoside (alpha + beta)	Xenobiotics	31%		0.29 [0.05:0.52]	0.00 [0.00:0.00]	0.71 [0.48:0.95]
M01584	methyl indole-3-acetate	Xenobiotics	56%		0.26 [0.03:0.48]	0.00 [0.00:0.00]	0.74 [0.52:0.97]
M44663	naringenin	Xenobiotics	49%	18.4	0.00 [0.00:0.00]	0.00 [-0.00:0.00]	1.00 [1.00:1.00]
M43026	nicotianamine	Xenobiotics	94%	10.2	0.19 [0.03:0.34]	0.00 [0.00:0.00]	0.81 [0.66:0.97]
M17665	p-hydroxybenzaldehyde	Xenobiotics	64%	31.3	0.00 [0.00:0.00]	0.07 [-0.12:0.26]	0.93 [0.74:1.12]
M18254	paraxanthine	Xenobiotics	88%	26.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35879	pheophorbide A	Xenobiotics	89%	16.7	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M00598	phytanate	Xenobiotics	99%	29.9	0.19 [0.04:0.34]	0.00 [0.00:0.00]	0.81 [0.66:0.96]
M38183	piperidine	Xenobiotics	89%	21.4	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M33935	piperine	Xenobiotics	88%	18.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M48428	pyrraline	Xenobiotics	99%	4.6	0.24 [0.10:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.90]
M18335	quinatate	Xenobiotics	100%	11.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M21151	saccharin	Xenobiotics	71%	5.2	0.19 [-0.07:0.44]	0.00 [0.00:0.00]	0.81 [0.56:1.07]
M01515	salicylate	Xenobiotics	76%	18	0.00 [0.00:0.00]	0.16 [-0.06:0.38]	0.84 [0.62:1.06]
M38105	secoisolariciresinol	Xenobiotics	26%	9.2	0.00 [-0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M52233	sitostanol	Xenobiotics	88%	20.6	0.00 [0.00:0.00]	0.13 [0.01:0.26]	0.87 [0.74:0.99]
M39788	solanidine	Xenobiotics	98%	8	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M34384	stachydrine	Xenobiotics	100%	4.6	0.26 [0.13:0.39]	0.00 [0.00:0.00]	0.74 [0.61:0.87]
M41888	succinimide	Xenobiotics	99%	30.3	0.24 [0.11:0.37]	0.00 [0.00:0.00]	0.76 [0.63:0.89]
M36649	sucralose	Xenobiotics	55%	7.2	0.00 [0.00:0.00]	0.07 [-0.11:0.25]	0.93 [0.75:1.11]
M46960	sulfate*	Xenobiotics	100%	6.3	0.17 [0.03:0.32]	0.00 [0.00:0.00]	0.83 [0.68:0.97]
M37091	syringic acid	Xenobiotics	59%	10.1	0.00 [0.00:0.00]	0.16 [-0.02:0.34]	0.84 [0.66:1.02]
M15336	tartarate	Xenobiotics	51%		0.03 [-0.20:0.26]	0.00 [0.00:0.00]	0.97 [0.74:1.20]
M22206	theanine	Xenobiotics	67%	14.2	0.27 [0.04:0.49]	0.00 [0.00:0.00]	0.73 [0.51:0.96]
M18392	theobromine	Xenobiotics	62%	12.4	0.16 [-0.07:0.40]	0.00 [0.00:0.00]	0.84 [0.60:1.07]
M18394	theophylline	Xenobiotics	94%	16.1	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M38175	tribuloside	Xenobiotics	26%		0.18 [-0.07:0.43]	0.00 [0.00:0.00]	0.82 [0.57:1.07]
M41515	tyrosol	Xenobiotics	92%	16.3	0.00 [0.00:0.00]	0.00 [0.00:0.00]	1.00 [1.00:1.00]
M35639	vanillate	Xenobiotics	73%	12.8	0.03 [-0.24:0.30]	0.00 [0.00:0.00]	0.97 [0.70:1.24]

Var expl Microb.		Age		Gender		BMI		Microb. Diver
M	p	beta [95%CI]	p	beta [95%CI]	p	beta [95%CI]	p	beta [95%CI]
0.63 (±0.17)	1.65E-04	0.07 [-0.00:0.14]	6.39E-02	0.19 [-0.12:0.50]	2.23E-01	-0.01 [-0.08:0.05]	6.53E-01	0.01 [-0.07:0.09]
0.68 (±0.16)	2.28E-05	0.06 [-0.02:0.13]	1.25E-01	0.08 [-0.21:0.38]	5.70E-01	0.09 [0.03:0.15]	3.61E-03	0.22 [0.14:0.29]
0.75 (±0.16)	1.68E-06	0.03 [0.74:-0.13]	7.42E-01	0.47 [0.12:-0.13]	1.23E-01	0.16 [0.03:0.30]	1.74E-02	-0.37 [0.00:-0.55]
0.01 (±0.09)	9.40E-01	-0.03 [0.73:-0.17]	7.29E-01	0.20 [0.49:-0.37]	4.91E-01	-0.01 [-0.13:0.11]	8.74E-01	0.07 [0.36:-0.09]
0.31 (±0.19)	1.01E-01	0.04 [-0.04:0.12]	3.31E-01	-0.20 [-0.51:0.11]	2.05E-01	0.08 [0.01:0.14]	2.32E-02	0.11 [0.03:0.19]
0.95 (±0.14)	4.83E-12	-0.08 [-0.15:-0.01]	2.95E-02	0.34 [0.06:0.62]	1.91E-02	-0.01 [-0.07:0.05]	7.13E-01	0.27 [0.19:0.34]
0.61 (±0.17)	2.14E-04	-0.10 [0.28:-0.28]	2.76E-01	-0.46 [0.25:-1.24]	2.46E-01	0.07 [-0.07:0.20]	3.28E-01	-0.23 [0.02:-0.42]
0.45 (±0.17)	1.04E-02	-0.05 [-0.13:0.02]	1.43E-01	-0.01 [-0.29:0.28]	9.67E-01	0.08 [0.02:0.14]	6.42E-03	-0.15 [-0.23:-0.07]
0.58 (±0.17)	8.13E-04	0.06 [-0.02:0.13]	1.21E-01	-0.23 [-0.55:0.08]	1.45E-01	0.02 [-0.04:0.08]	5.52E-01	0.03 [-0.05:0.11]
0.54 (±0.17)	1.34E-03	-0.02 [-0.09:0.06]	6.66E-01	0.49 [0.21:0.77]	7.13E-04	-0.03 [-0.09:0.03]	3.83E-01	-0.05 [-0.12:0.03]
0.42 (±0.18)	1.70E-02	0.02 [-0.06:0.09]	6.91E-01	0.12 [-0.19:0.42]	4.50E-01	0.03 [-0.03:0.09]	3.19E-01	-0.03 [-0.11:0.06]
0.82 (±0.15)	6.48E-08	0.01 [-0.07:0.08]	8.88E-01	0.08 [-0.22:0.38]	5.87E-01	0.06 [-0.01:0.12]	7.50E-02	-0.18 [-0.25:-0.10]
0.71 (±0.16)	8.85E-06	0.08 [0.30:-0.07]	3.00E-01	0.34 [0.25:-0.24]	2.48E-01	0.00 [-0.13:0.13]	9.81E-01	0.13 [0.14:-0.04]
0.00 (±0.05)	1.00E+00	-0.03 [0.68:-0.17]	6.84E-01	0.41 [0.16:-0.16]	1.60E-01	0.04 [-0.07:0.16]	4.54E-01	-0.04 [0.66:-0.19]
0.37 (±0.18)	3.34E-02	0.05 [-0.02:0.13]	1.59E-01	-0.14 [-0.43:0.16]	3.72E-01	0.01 [-0.05:0.07]	7.99E-01	0.12 [0.03:0.20]
0.99 (±0.13)	1.33E-13	0.02 [-0.05:0.09]	6.18E-01	0.09 [-0.20:0.39]	5.34E-01	-0.02 [-0.08:0.04]	4.45E-01	-0.34 [-0.41:-0.26]
0.60 (±0.17)	2.95E-04	-0.02 [-0.09:0.05]	5.74E-01	0.06 [-0.23:0.36]	6.67E-01	0.06 [-0.00:0.12]	5.48E-02	-0.01 [-0.09:0.07]
0.81 (±0.16)	2.36E-07	0.01 [-0.07:0.08]	8.08E-01	-0.07 [-0.38:0.23]	6.35E-01	-0.02 [-0.08:0.04]	5.71E-01	-0.23 [-0.30:-0.15]
0.85 (±0.15)	6.44E-09	-0.07 [0.40:-0.24]	3.95E-01	0.28 [0.44:-0.44]	4.43E-01	0.04 [-0.10:0.18]	5.92E-01	-0.12 [0.26:-0.32]
0.32 (±0.19)	8.94E-02	0.04 [-0.05:0.12]	3.97E-01	-0.12 [-0.45:0.21]	4.80E-01	-0.01 [-0.07:0.06]	8.81E-01	0.08 [0.00:0.17]
0.72 (±0.16)	1.09E-05	0.07 [-0.01:0.14]	1.01E-01	-0.11 [-0.43:0.21]	4.97E-01	0.01 [-0.06:0.07]	7.97E-01	0.17 [0.09:0.24]
0.46 (±0.17)	6.54E-03	-0.08 [0.35:-0.24]	3.53E-01	-0.02 [0.94:-0.66]	9.45E-01	0.03 [-0.10:0.16]	6.80E-01	-0.48 [0.00:-0.68]
0.67 (±0.19)	3.84E-04	-0.03 [-0.11:0.05]	4.42E-01	-0.45 [-0.77:-0.14]	4.23E-03	0.01 [-0.05:0.08]	7.11E-01	-0.22 [-0.31:-0.14]
1.00 (±0.12)	2.09E-17	-0.03 [-0.11:0.04]	4.16E-01	0.29 [-0.01:0.60]	6.07E-02	-0.00 [-0.06:0.06]	9.84E-01	0.08 [0.00:0.16]
0.97 (±0.14)	3.12E-12	0.07 [0.00:0.14]	4.89E-02	-0.14 [-0.43:0.15]	3.32E-01	-0.02 [-0.08:0.04]	5.75E-01	-0.12 [-0.20:-0.04]
0.91 (±0.14)	1.80E-10	-0.01 [-0.08:0.06]	8.25E-01	0.11 [-0.18:0.40]	4.52E-01	-0.00 [-0.06:0.06]	9.61E-01	-0.31 [-0.38:-0.23]
0.84 (±0.15)	1.65E-08	0.01 [-0.06:0.09]	6.95E-01	-0.07 [-0.37:0.22]	6.24E-01	-0.04 [-0.10:0.02]	1.63E-01	-0.16 [-0.24:-0.08]
0.58 (±0.19)	2.36E-03	-0.02 [-0.10:0.06]	6.13E-01	-0.15 [-0.47:0.17]	3.69E-01	-0.03 [-0.10:0.03]	3.46E-01	-0.14 [-0.22:-0.06]
0.37 (±0.17)	2.82E-02	0.04 [0.56:-0.10]	5.59E-01	0.33 [0.28:-0.27]	2.82E-01	-0.04 [-0.16:0.08]	5.44E-01	0.07 [0.39:-0.09]
0.81 (±0.17)	1.27E-06	0.05 [-0.03:0.13]	1.92E-01	-0.04 [-0.34:0.25]	7.82E-01	0.01 [-0.05:0.08]	6.87E-01	-0.22 [-0.30:-0.14]
0.50 (±0.18)	4.98E-03	0.01 [-0.07:0.09]	8.39E-01	0.03 [-0.29:0.35]	8.37E-01	0.02 [-0.04:0.08]	5.10E-01	0.06 [-0.02:0.14]
1.00 (±0.13)	9.79E-15	-0.02 [-0.09:0.05]	5.43E-01	-0.16 [-0.44:0.13]	2.78E-01	-0.02 [-0.08:0.04]	5.20E-01	-0.26 [-0.34:-0.18]
0.76 (±0.16)	1.33E-06	0.05 [-0.02:0.13]	1.68E-01	-0.12 [-0.43:0.20]	4.69E-01	0.01 [-0.06:0.07]	8.48E-01	0.11 [0.04:0.19]
0.57 (±0.17)	7.31E-04	0.07 [0.44:-0.10]	4.45E-01	-0.39 [0.27:-1.08]	2.70E-01	-0.05 [-0.17:0.08]	4.72E-01	-0.02 [0.79:-0.20]
0.68 (±0.16)	2.61E-05	0.02 [-0.05:0.09]	5.26E-01	0.10 [-0.17:0.38]	4.61E-01	0.02 [-0.04:0.08]	5.12E-01	-0.23 [-0.31:-0.16]
0.63 (±0.16)	1.33E-04	0.08 [0.31:-0.08]	3.07E-01	0.51 [0.11:-0.12]	1.14E-01	0.05 [-0.08:0.17]	4.62E-01	-0.55 [0.00:-0.75]
0.53 (±0.17)	1.75E-03	-0.08 [0.28:-0.22]	2.84E-01	0.01 [0.97:-0.55]	9.74E-01	0.17 [0.05:0.29]	4.86E-03	-0.42 [0.00:-0.59]
0.81 (±0.15)	6.83E-08	0.01 [-0.06:0.09]	7.17E-01	0.07 [-0.22:0.37]	6.18E-01	0.01 [-0.05:0.07]	8.40E-01	0.09 [0.01:0.16]
0.23 (±0.16)	1.60E-01	0.20 [0.01:0.05]	9.48E-03	0.19 [0.55:-0.42]	5.47E-01	0.01 [-0.11:0.13]	8.64E-01	-0.24 [0.01:-0.42]
0.15 (±0.15)	3.05E-01	0.07 [0.41:-0.09]	4.10E-01	0.02 [0.94:-0.63]	9.41E-01	-0.05 [-0.18:0.09]	4.86E-01	0.19 [0.04:0.01]
0.22 (±0.16)	1.72E-01	-0.14 [0.10:-0.30]	1.02E-01	0.31 [0.33:-0.32]	3.32E-01	0.14 [0.00:0.27]	4.23E-02	-0.24 [0.01:-0.41]
0.73 (±0.16)	4.70E-06	-0.06 [-0.13:0.01]	9.10E-02	-0.02 [-0.31:0.27]	8.89E-01	0.08 [0.02:0.14]	7.25E-03	-0.37 [-0.44:-0.30]
0.89 (±0.14)	4.32E-10	-0.03 [-0.10:0.05]	4.92E-01	0.08 [-0.21:0.38]	5.74E-01	0.03 [-0.03:0.09]	2.69E-01	-0.20 [-0.28:-0.12]
1.00 (±0.11)	3.54E-21	-0.05 [-0.13:0.02]	1.51E-01	-0.15 [-0.45:0.15]	3.28E-01	-0.02 [-0.08:0.05]	5.97E-01	-0.06 [-0.14:0.02]

0.50 (±0.17)	3.37E-03	0.00 [-0.07:0.08]	9.14E-01	-0.05 [-0.35:0.24]	7.18E-01	0.06 [-0.00:0.12]	5.06E-02	-0.23 [-0.30:-0.15]
0.79 (±0.15)	2.75E-07	0.01 [-0.06:0.08]	7.81E-01	0.29 [-0.01:0.59]	5.60E-02	-0.01 [-0.07:0.06]	8.59E-01	-0.09 [-0.17:-0.01]
0.28 (±0.18)	1.26E-01	0.05 [-0.02:0.13]	1.76E-01	-0.14 [-0.45:0.17]	3.74E-01	-0.02 [-0.09:0.05]	5.56E-01	0.17 [0.08:0.25]
0.30 (±0.18)	1.02E-01	-0.06 [-0.14:0.01]	1.10E-01	0.41 [0.11:0.71]	6.61E-03	0.02 [-0.05:0.08]	5.93E-01	-0.07 [-0.15:0.01]
0.81 (±0.15)	6.82E-08	-0.01 [-0.09:0.06]	7.35E-01	0.16 [-0.14:0.46]	3.00E-01	0.01 [-0.05:0.07]	8.42E-01	0.25 [0.17:0.32]
0.68 (±0.16)	2.75E-05	-0.03 [-0.10:0.05]	4.45E-01	-0.23 [-0.53:0.07]	1.34E-01	0.05 [-0.01:0.11]	9.73E-02	-0.10 [-0.18:-0.03]
0.46 (±0.17)	7.37E-03	0.03 [-0.04:0.10]	3.95E-01	-0.08 [-0.38:0.21]	5.73E-01	0.00 [-0.06:0.06]	9.15E-01	0.06 [-0.02:0.13]
0.68 (±0.16)	2.74E-05	-0.05 [0.55:-0.20]	5.52E-01	-0.25 [0.40:-0.85]	4.03E-01	0.07 [-0.05:0.20]	2.61E-01	-0.68 [0.00:-0.89]
0.91 (±0.14)	1.50E-10	-0.04 [-0.12:0.03]	2.46E-01	0.11 [-0.19:0.41]	4.62E-01	0.03 [-0.03:0.09]	3.38E-01	-0.08 [-0.16:0.00]
0.70 (±0.16)	1.36E-05	0.06 [-0.01:0.13]	1.01E-01	-0.08 [-0.38:0.21]	5.81E-01	0.02 [-0.04:0.08]	5.26E-01	0.05 [-0.03:0.13]
0.00 (±0.08)	1.00E+00	0.03 [0.67:-0.12]	6.65E-01	-0.67 [0.06:-1.35]	5.80E-02	0.01 [-0.11:0.14]	8.63E-01	0.11 [0.21:-0.06]
0.77 (±0.15)	6.94E-07	0.06 [-0.01:0.14]	8.50E-02	-0.14 [-0.44:0.16]	3.50E-01	0.01 [-0.05:0.07]	8.17E-01	0.06 [-0.02:0.14]
1.00 (±0.13)	5.16E-15	0.04 [-0.03:0.12]	2.59E-01	-0.05 [-0.35:0.25]	7.53E-01	0.06 [-0.00:0.12]	6.47E-02	-0.12 [-0.20:-0.04]
0.91 (±0.14)	1.63E-10	0.08 [0.01:0.16]	3.02E-02	-0.05 [-0.35:0.25]	7.39E-01	-0.03 [-0.09:0.03]	3.71E-01	-0.01 [-0.09:0.07]
0.72 (±0.16)	6.45E-06	0.03 [-0.05:0.10]	4.64E-01	-0.14 [-0.43:0.16]	3.63E-01	0.02 [-0.05:0.08]	6.07E-01	0.02 [-0.06:0.10]
0.33 (±0.17)	4.94E-02	-0.03 [-0.10:0.04]	3.55E-01	0.14 [-0.14:0.42]	3.35E-01	0.01 [-0.05:0.06]	8.60E-01	-0.04 [-0.12:0.04]
1.00 (±0.12)	9.08E-17	-0.04 [-0.11:0.04]	3.12E-01	-0.01 [-0.30:0.29]	9.73E-01	0.04 [-0.02:0.11]	1.53E-01	-0.38 [-0.46:-0.31]
0.55 (±0.17)	1.15E-03	0.04 [-0.03:0.11]	2.89E-01	-0.01 [-0.31:0.29]	9.49E-01	0.06 [-0.00:0.12]	6.85E-02	0.06 [-0.02:0.13]
0.34 (±0.17)	4.37E-02	-0.06 [0.46:-0.23]	4.55E-01	-0.18 [0.59:-0.82]	5.89E-01	-0.10 [-0.24:0.03]	1.39E-01	0.38 [0.00:0.20]
0.59 (±0.17)	3.46E-04	-0.19 [0.02:-0.35]	1.84E-02	-0.32 [0.32:-0.96]	3.17E-01	0.08 [-0.04:0.20]	1.96E-01	-0.50 [0.00:-0.69]
0.82 (±0.16)	5.80E-07	0.00 [-0.07:0.08]	9.50E-01	0.13 [-0.18:0.44]	4.10E-01	0.04 [-0.02:0.11]	1.80E-01	-0.07 [-0.16:0.02]
0.63 (±0.17)	1.37E-04	-0.07 [-0.14:0.00]	6.31E-02	0.34 [0.06:0.62]	1.69E-02	0.06 [-0.00:0.12]	6.10E-02	-0.03 [-0.11:0.05]
0.79 (±0.15)	2.49E-07	0.00 [-0.07:0.08]	9.39E-01	-0.14 [-0.44:0.16]	3.56E-01	0.04 [-0.02:0.10]	2.30E-01	0.05 [-0.03:0.13]
0.74 (±0.16)	3.62E-06	0.05 [-0.02:0.12]	1.76E-01	-0.01 [-0.31:0.28]	9.34E-01	0.04 [-0.02:0.10]	2.00E-01	-0.09 [-0.17:-0.01]
0.65 (±0.17)	7.81E-05	-0.03 [-0.10:0.05]	4.83E-01	0.33 [0.04:0.62]	2.63E-02	0.02 [-0.04:0.08]	5.06E-01	0.03 [-0.05:0.11]
0.54 (±0.18)	1.89E-03	0.02 [-0.05:0.10]	5.14E-01	0.19 [-0.10:0.48]	1.94E-01	0.04 [-0.02:0.10]	2.35E-01	-0.09 [-0.17:-0.01]
0.36 (±0.17)	3.90E-02	0.01 [-0.07:0.09]	7.86E-01	-0.19 [-0.50:0.12]	2.22E-01	-0.03 [-0.09:0.04]	4.05E-01	0.13 [0.05:0.21]
0.98 (±0.13)	4.94E-13	-0.04 [-0.11:0.03]	3.03E-01	0.17 [-0.12:0.46]	2.64E-01	-0.03 [-0.09:0.03]	2.87E-01	-0.13 [-0.21:-0.06]
1.00 (±0.13)	1.92E-15	-0.03 [-0.10:0.05]	5.11E-01	0.06 [-0.25:0.36]	7.26E-01	0.03 [-0.03:0.09]	3.81E-01	-0.31 [-0.39:-0.24]
0.62 (±0.17)	1.89E-04	0.01 [-0.06:0.08]	7.82E-01	0.27 [-0.01:0.56]	5.88E-02	-0.01 [-0.07:0.05]	7.81E-01	-0.06 [-0.14:0.02]
0.70 (±0.16)	1.83E-05	-0.03 [-0.10:0.04]	4.38E-01	-0.08 [-0.37:0.21]	5.79E-01	0.09 [0.03:0.15]	2.34E-03	-0.27 [-0.35:-0.20]
0.84 (±0.17)	8.05E-07	-0.08 [-0.16:-0.01]	3.25E-02	-0.35 [-0.65:-0.05]	2.41E-02	-0.04 [-0.11:0.02]	1.93E-01	0.00 [-0.09:0.09]
0.14 (±0.15)	3.31E-01	-0.03 [0.68:-0.19]	6.80E-01	-0.14 [0.68:-0.78]	6.77E-01	-0.13 [-0.25:-0.00]	4.92E-02	-0.22 [0.01:-0.39]
0.48 (±0.17)	4.57E-03	0.08 [0.38:-0.09]	3.79E-01	-0.10 [0.76:-0.77]	7.60E-01	0.07 [-0.07:0.21]	3.27E-01	-0.32 [0.00:-0.53]
0.82 (±0.15)	5.54E-08	-0.08 [-0.15:-0.00]	4.59E-02	-0.07 [-0.38:0.23]	6.26E-01	0.09 [0.03:0.15]	4.43E-03	-0.31 [-0.38:-0.23]
0.51 (±0.17)	2.64E-03	-0.04 [0.59:-0.19]	5.92E-01	0.30 [0.33:-0.31]	3.35E-01	-0.01 [-0.13:0.11]	9.10E-01	0.06 [0.49:-0.11]
0.00 (±0.01)	1.00E+00	0.05 [0.58:-0.12]	5.78E-01	-0.15 [0.64:-0.79]	6.36E-01	0.03 [-0.10:0.16]	6.99E-01	0.02 [0.78:-0.15]
0.50 (±0.17)	3.15E-03	-0.02 [0.84:-0.22]	8.43E-01	0.39 [0.30:-0.35]	3.04E-01	0.03 [-0.12:0.17]	7.23E-01	-0.21 [0.06:-0.44]
0.72 (±0.16)	5.99E-06	-0.15 [0.04:-0.29]	4.13E-02	0.14 [0.64:-0.43]	6.35E-01	0.08 [-0.04:0.20]	1.68E-01	-0.57 [0.00:-0.75]
0.82 (±0.15)	6.02E-08	-0.08 [-0.15:-0.01]	2.19E-02	-0.06 [-0.34:0.22]	6.60E-01	0.07 [0.01:0.13]	1.70E-02	-0.32 [-0.40:-0.25]
0.98 (±0.13)	3.98E-13	-0.01 [0.91:-0.16]	9.06E-01	0.20 [0.53:-0.41]	5.26E-01	0.01 [-0.12:0.13]	9.34E-01	-0.60 [0.00:-0.80]
0.08 (±0.13)	5.57E-01	-0.16 [0.06:-0.32]	5.75E-02	0.50 [0.17:-0.22]	1.74E-01	-0.04 [-0.17:0.09]	5.69E-01	-0.05 [0.60:-0.23]
0.65 (±0.19)	5.97E-04	-0.03 [-0.11:0.05]	4.88E-01	0.01 [-0.33:0.35]	9.43E-01	-0.01 [-0.08:0.06]	7.03E-01	-0.01 [-0.10:0.08]
1.00 (±0.13)	1.70E-15	-0.04 [-0.11:0.04]	3.31E-01	0.01 [-0.29:0.31]	9.40E-01	0.03 [-0.03:0.09]	3.88E-01	0.08 [0.00:0.16]
1.00 (±0.13)	3.72E-14	-0.06 [-0.13:0.01]	1.12E-01	0.15 [-0.15:0.46]	3.25E-01	0.04 [-0.03:0.10]	2.52E-01	-0.23 [-0.31:-0.16]
0.97 (±0.14)	8.26E-13	-0.02 [-0.09:0.05]	5.95E-01	0.02 [-0.28:0.32]	9.18E-01	0.03 [-0.03:0.09]	2.88E-01	-0.09 [-0.17:-0.02]
1.00 (±0.13)	5.69E-14	-0.04 [-0.12:0.03]	2.84E-01	0.10 [-0.20:0.39]	5.24E-01	0.11 [0.05:0.17]	4.73E-04	-0.33 [-0.40:-0.25]
0.64 (±0.17)	1.70E-04	-0.02 [-0.09:0.06]	6.25E-01	0.03 [-0.27:0.32]	8.52E-01	0.03 [-0.04:0.09]	4.00E-01	-0.16 [-0.24:-0.08]
0.24 (±0.17)	1.59E-01	0.06 [-0.02:0.13]	1.35E-01	-0.06 [-0.36:0.24]	6.99E-01	-0.04 [-0.10:0.03]	2.69E-01	0.06 [-0.02:0.14]
0.41 (±0.20)	3.91E-02	-0.04 [-0.12:0.03]	2.57E-01	0.09 [-0.21:0.39]	5.66E-01	0.06 [-0.01:0.13]	7.46E-02	-0.14 [-0.23:-0.06]

0.47 (±0.17)	6.29E-03	-0.09 [0.23:-0.24]	2.26E-01	0.53 [0.09:-0.08]	8.80E-02	-0.02 [-0.14:0.11]	8.03E-01	-0.37 [0.00:-0.55]
0.31 (±0.17)	6.25E-02	0.01 [0.87:-0.14]	8.73E-01	0.08 [0.79:-0.51]	7.89E-01	-0.06 [-0.18:0.06]	3.08E-01	0.26 [0.00:0.09]
0.65 (±0.17)	9.87E-05	0.07 [-0.01:0.15]	6.73E-02	-0.03 [-0.35:0.28]	8.34E-01	0.07 [0.01:0.14]	2.15E-02	-0.19 [-0.26:-0.11]
0.91 (±0.14)	2.02E-10	0.01 [-0.06:0.08]	8.34E-01	0.09 [-0.20:0.38]	5.53E-01	0.04 [-0.02:0.10]	2.12E-01	-0.12 [-0.20:-0.05]
0.64 (±0.19)	7.35E-04	0.01 [-0.07:0.09]	8.34E-01	0.09 [-0.23:0.41]	5.98E-01	0.05 [-0.02:0.12]	1.52E-01	-0.04 [-0.13:0.05]
0.36 (±0.18)	4.05E-02	-0.01 [-0.08:0.07]	8.42E-01	0.07 [-0.23:0.37]	6.50E-01	0.02 [-0.04:0.08]	5.65E-01	-0.06 [-0.14:0.02]
0.60 (±0.17)	3.25E-04	0.02 [-0.06:0.09]	6.57E-01	0.00 [-0.29:0.29]	9.85E-01	0.05 [-0.01:0.11]	1.19E-01	-0.08 [-0.15:0.00]
0.02 (±0.10)	8.51E-01	-0.17 [0.04:-0.33]	3.67E-02	-0.15 [0.63:-0.79]	6.34E-01	-0.07 [-0.20:0.05]	2.52E-01	-0.07 [0.43:-0.24]
0.85 (±0.15)	1.15E-08	-0.03 [-0.10:0.05]	5.06E-01	0.14 [-0.17:0.44]	3.84E-01	0.02 [-0.05:0.08]	5.89E-01	-0.15 [-0.22:-0.07]
0.90 (±0.14)	2.50E-10	-0.08 [-0.15:-0.01]	3.48E-02	-0.14 [-0.44:0.15]	3.45E-01	-0.07 [-0.13:-0.01]	1.67E-02	-0.24 [-0.32:-0.16]
0.59 (±0.17)	3.82E-04	-0.08 [0.39:-0.25]	3.88E-01	-0.75 [0.08:-1.60]	8.20E-02	-0.00 [-0.15:0.14]	9.46E-01	-0.68 [0.00:-0.88]
0.78 (±0.15)	4.73E-07	0.01 [-0.07:0.08]	8.79E-01	-0.20 [-0.49:0.10]	1.90E-01	0.02 [-0.04:0.08]	5.95E-01	-0.20 [-0.28:-0.12]
0.76 (±0.16)	1.25E-06	-0.03 [-0.10:0.05]	4.88E-01	0.10 [-0.20:0.40]	5.12E-01	0.10 [0.04:0.16]	1.97E-03	-0.26 [-0.34:-0.19]
0.06 (±0.12)	6.01E-01	-0.23 [0.01:-0.40]	1.22E-02	0.18 [0.64:-0.55]	6.36E-01	0.05 [-0.09:0.19]	4.53E-01	-0.23 [0.02:-0.44]
0.42 (±0.17)	1.40E-02	0.01 [-0.06:0.08]	8.38E-01	0.10 [-0.19:0.39]	4.94E-01	0.05 [-0.01:0.11]	9.84E-02	-0.03 [-0.11:0.05]
0.44 (±0.17)	1.02E-02	-0.05 [0.51:-0.20]	5.14E-01	0.07 [0.82:-0.55]	8.22E-01	0.03 [-0.09:0.16]	6.04E-01	-0.36 [0.00:-0.55]
0.65 (±0.16)	6.81E-05	-0.02 [-0.09:0.05]	5.89E-01	0.00 [-0.28:0.29]	9.85E-01	0.04 [-0.02:0.10]	2.33E-01	-0.08 [-0.16:-0.00]
0.75 (±0.16)	5.40E-06	-0.07 [-0.15:0.00]	5.11E-02	0.19 [-0.10:0.48]	1.98E-01	0.01 [-0.05:0.07]	6.65E-01	0.03 [-0.05:0.11]
0.63 (±0.17)	1.35E-04	0.00 [-0.07:0.08]	9.62E-01	-0.10 [-0.39:0.20]	5.29E-01	0.03 [-0.03:0.09]	3.39E-01	-0.25 [-0.33:-0.17]
0.90 (±0.14)	2.94E-10	0.03 [-0.05:0.10]	4.66E-01	-0.07 [-0.36:0.23]	6.61E-01	0.06 [-0.00:0.12]	5.59E-02	-0.14 [-0.22:-0.06]
NA (±NA)		-0.09 [-0.16:-0.02]	1.27E-02	-0.22 [-0.51:0.06]	1.20E-01	-0.04 [-0.10:0.02]	2.12E-01	-0.02 [-0.10:0.06]
0.33 (±0.17)	5.45E-02	-0.08 [-0.15:-0.00]	3.86E-02	-0.21 [-0.51:0.09]	1.75E-01	-0.03 [-0.09:0.03]	3.28E-01	-0.05 [-0.13:0.03]
0.77 (±0.15)	5.62E-07	-0.06 [0.47:-0.22]	4.68E-01	-0.07 [0.83:-0.72]	8.27E-01	-0.01 [-0.14:0.12]	8.49E-01	-0.28 [0.00:-0.45]
0.86 (±0.15)	5.26E-09	-0.08 [-0.15:-0.00]	4.49E-02	0.25 [-0.06:0.55]	1.11E-01	0.07 [0.01:0.13]	3.05E-02	-0.17 [-0.25:-0.09]
0.85 (±0.17)	4.37E-07	-0.03 [-0.10:0.05]	5.33E-01	-0.12 [-0.44:0.20]	4.55E-01	-0.00 [-0.07:0.07]	9.28E-01	-0.18 [-0.27:-0.10]
0.81 (±0.15)	1.20E-07	0.00 [-0.07:0.08]	8.98E-01	0.01 [-0.30:0.32]	9.49E-01	0.00 [-0.06:0.07]	9.09E-01	-0.19 [-0.26:-0.11]
0.67 (±0.16)	3.98E-05	-0.10 [0.22:-0.25]	2.21E-01	0.35 [0.25:-0.25]	2.51E-01	0.02 [-0.10:0.15]	7.30E-01	-0.48 [0.00:-0.66]
0.99 (±0.16)	4.79E-10	-0.00 [-0.08:0.08]	9.20E-01	-0.05 [-0.36:0.27]	7.71E-01	0.11 [0.05:0.18]	8.71E-04	-0.28 [-0.36:-0.19]
0.53 (±0.17)	1.61E-03	-0.18 [0.03:-0.33]	2.59E-02	0.38 [0.21:-0.21]	2.08E-01	0.03 [-0.10:0.15]	6.86E-01	-0.18 [0.04:-0.35]
0.97 (±0.16)	4.54E-09	-0.06 [-0.14:0.03]	1.99E-01	-0.04 [-0.37:0.29]	8.23E-01	0.01 [-0.06:0.08]	7.55E-01	-0.28 [-0.36:-0.19]
0.99 (±0.15)	3.25E-11	-0.02 [-0.10:0.05]	5.57E-01	0.02 [-0.29:0.33]	9.03E-01	-0.00 [-0.07:0.06]	9.34E-01	-0.41 [-0.49:-0.34]
0.00 (±0.01)	1.00E+00	0.08 [0.01:0.15]	2.92E-02	0.11 [-0.18:0.40]	4.46E-01	0.01 [-0.05:0.07]	7.18E-01	0.07 [-0.01:0.15]
0.40 (±0.17)	1.91E-02	-0.04 [-0.12:0.03]	2.52E-01	-0.01 [-0.32:0.29]	9.37E-01	0.00 [-0.06:0.07]	8.78E-01	-0.00 [-0.08:0.08]
0.49 (±0.17)	4.11E-03	0.03 [-0.04:0.10]	4.34E-01	-0.18 [-0.47:0.12]	2.43E-01	0.03 [-0.03:0.09]	3.68E-01	0.11 [0.03:0.19]
0.78 (±0.18)	9.17E-06	-0.02 [-0.10:0.06]	5.61E-01	0.23 [-0.08:0.54]	1.54E-01	0.03 [-0.04:0.10]	4.19E-01	-0.21 [-0.29:-0.13]
0.83 (±0.15)	2.92E-08	-0.07 [0.43:-0.25]	4.29E-01	-0.06 [0.87:-0.77]	8.74E-01	0.03 [-0.11:0.17]	6.84E-01	-0.57 [0.00:-0.82]
1.00 (±0.13)	2.80E-15	-0.04 [-0.12:0.03]	2.67E-01	-0.01 [-0.31:0.29]	9.47E-01	0.05 [-0.01:0.11]	1.03E-01	-0.09 [-0.17:-0.02]
1.00 (±0.12)	6.54E-16	-0.09 [-0.16:-0.01]	2.30E-02	0.26 [-0.04:0.56]	9.40E-02	0.00 [-0.06:0.07]	9.09E-01	0.13 [0.05:0.21]
0.90 (±0.14)	2.58E-10	-0.02 [-0.10:0.05]	5.57E-01	0.08 [-0.21:0.38]	5.86E-01	0.04 [-0.02:0.10]	1.95E-01	-0.28 [-0.36:-0.21]
0.84 (±0.15)	3.67E-08	-0.07 [-0.15:0.00]	5.50E-02	-0.02 [-0.32:0.28]	8.96E-01	0.02 [-0.04:0.09]	4.45E-01	-0.19 [-0.27:-0.11]
0.80 (±0.15)	1.24E-07	0.02 [-0.06:0.09]	6.53E-01	0.05 [-0.24:0.34]	7.34E-01	0.05 [-0.01:0.11]	7.41E-02	-0.12 [-0.20:-0.05]
0.41 (±0.17)	1.61E-02	-0.07 [0.39:-0.22]	3.85E-01	-0.55 [0.07:-1.15]	7.39E-02	-0.13 [-0.26:-0.01]	3.86E-02	-0.37 [0.00:-0.56]
0.63 (±0.16)	1.41E-04	-0.10 [0.20:-0.24]	2.03E-01	-0.64 [0.04:-1.25]	3.86E-02	0.02 [-0.10:0.14]	6.92E-01	-0.73 [0.00:-0.93]
0.60 (±0.17)	2.80E-04	-0.02 [0.82:-0.16]	8.21E-01	-0.13 [0.67:-0.70]	6.67E-01	0.10 [-0.02:0.22]	1.04E-01	-0.64 [0.00:-0.84]
0.96 (±0.14)	2.13E-12	-0.05 [-0.13:0.02]	1.66E-01	0.16 [-0.14:0.46]	2.92E-01	0.07 [0.01:0.13]	3.34E-02	-0.40 [-0.47:-0.33]
1.00 (±0.11)	7.87E-20	-0.01 [-0.08:0.06]	8.12E-01	-0.20 [-0.48:0.08]	1.63E-01	0.03 [-0.03:0.09]	2.88E-01	-0.38 [-0.45:-0.31]
0.00 (±0.18)	1.00E+00	-0.09 [0.41:-0.30]	4.14E-01	0.06 [0.89:-0.80]	8.91E-01	-0.02 [-0.16:0.13]	7.91E-01	0.06 [0.61:-0.16]

0.34 (±0.18)	5.63E-02	-0.02 [-0.10:0.05]	5.59E-01	0.02 [-0.28:0.31]	9.18E-01	-0.02 [-0.08:0.04]	5.66E-01	-0.07 [-0.15:0.02]
0.54 (±0.17)	1.34E-03	-0.01 [-0.09:0.06]	6.93E-01	0.11 [-0.18:0.40]	4.45E-01	0.02 [-0.04:0.08]	4.37E-01	-0.14 [-0.21:-0.06]
0.22 (±0.16)	1.73E-01	0.10 [0.21:-0.06]	2.10E-01	0.07 [0.81:-0.53]	8.13E-01	0.02 [-0.10:0.14]	7.62E-01	-0.05 [0.56:-0.22]
NA (±NA)		-0.01 [-0.09:0.07]	8.65E-01	0.10 [-0.23:0.43]	5.61E-01	-0.03 [-0.10:0.04]	4.44E-01	0.07 [-0.02:0.16]
0.71 (±0.16)	8.77E-06	0.05 [-0.03:0.12]	2.03E-01	0.15 [-0.14:0.44]	3.12E-01	0.02 [-0.04:0.09]	4.43E-01	-0.09 [-0.17:-0.01]
0.50 (±0.19)	7.78E-03	-0.05 [-0.13:0.03]	1.98E-01	0.08 [-0.23:0.40]	6.05E-01	0.05 [-0.02:0.11]	1.71E-01	-0.11 [-0.19:-0.03]
1.00 (±0.13)	1.82E-14	-0.07 [-0.14:0.01]	7.34E-02	0.14 [-0.16:0.44]	3.64E-01	0.01 [-0.05:0.08]	6.58E-01	-0.24 [-0.32:-0.17]
0.29 (±0.17)	8.51E-02	0.13 [0.07:-0.01]	7.07E-02	0.09 [0.76:-0.49]	7.58E-01	-0.08 [-0.20:0.04]	1.91E-01	0.22 [0.01:0.06]
0.81 (±0.15)	1.16E-07	-0.00 [-0.07:0.07]	9.92E-01	-0.04 [-0.34:0.25]	7.77E-01	0.02 [-0.04:0.08]	5.15E-01	-0.17 [-0.25:-0.09]
0.50 (±0.17)	3.10E-03	0.08 [0.01:0.15]	3.36E-02	0.20 [-0.09:0.49]	1.86E-01	0.04 [-0.02:0.10]	2.15E-01	0.05 [-0.03:0.13]
0.52 (±0.18)	4.37E-03	0.08 [0.00:0.15]	4.88E-02	0.34 [0.04:0.64]	2.72E-02	-0.02 [-0.08:0.04]	5.26E-01	0.10 [0.02:0.18]
0.75 (±0.16)	1.87E-06	-0.07 [-0.14:0.01]	6.88E-02	0.01 [-0.29:0.31]	9.27E-01	-0.06 [-0.12:0.00]	6.86E-02	-0.12 [-0.19:-0.04]
0.92 (±0.14)	6.79E-11	0.00 [-0.07:0.08]	9.18E-01	-0.03 [-0.33:0.26]	8.30E-01	0.04 [-0.02:0.10]	2.47E-01	-0.20 [-0.28:-0.13]
1.00 (±0.13)	1.57E-15	-0.03 [-0.10:0.04]	4.25E-01	-0.02 [-0.32:0.27]	8.69E-01	0.02 [-0.04:0.08]	4.59E-01	-0.22 [-0.29:-0.15]
1.00 (±0.13)	1.35E-14	-0.03 [-0.10:0.04]	4.50E-01	-0.01 [-0.31:0.28]	9.40E-01	0.06 [0.00:0.12]	4.98E-02	-0.26 [-0.34:-0.19]
0.32 (±0.17)	5.66E-02	0.18 [0.03:0.02]	3.16E-02	-0.61 [0.07:-1.27]	7.16E-02	-0.01 [-0.13:0.12]	9.35E-01	-0.22 [0.02:-0.40]
0.72 (±0.16)	5.24E-06	0.06 [-0.02:0.13]	1.34E-01	0.07 [-0.24:0.37]	6.76E-01	-0.05 [-0.11:0.01]	1.30E-01	-0.11 [-0.19:-0.04]
0.53 (±0.17)	1.65E-03	-0.03 [-0.10:0.04]	3.89E-01	0.24 [-0.04:0.53]	9.58E-02	0.01 [-0.05:0.07]	7.42E-01	-0.12 [-0.20:-0.05]
0.19 (±0.16)	2.18E-01	-0.03 [0.73:-0.19]	7.27E-01	-0.56 [0.07:-1.17]	7.04E-02	0.02 [-0.11:0.15]	7.26E-01	-0.07 [0.46:-0.25]
0.76 (±0.16)	9.98E-07	-0.02 [-0.10:0.05]	5.36E-01	0.20 [-0.10:0.50]	1.97E-01	0.05 [-0.01:0.11]	1.05E-01	-0.19 [-0.27:-0.12]
0.63 (±0.20)	1.31E-03	-0.00 [-0.08:0.07]	9.14E-01	0.17 [-0.15:0.49]	2.93E-01	0.03 [-0.04:0.10]	4.09E-01	0.04 [-0.05:0.13]
0.92 (±0.14)	5.43E-11	0.01 [-0.06:0.08]	8.21E-01	-0.07 [-0.35:0.22]	6.47E-01	0.04 [-0.02:0.09]	2.31E-01	-0.18 [-0.26:-0.10]
0.35 (±0.18)	4.38E-02	0.02 [-0.05:0.09]	5.69E-01	0.20 [-0.08:0.49]	1.66E-01	0.08 [0.02:0.14]	1.30E-02	-0.10 [-0.18:-0.02]
0.46 (±0.17)	6.80E-03	0.07 [0.00:0.14]	4.22E-02	0.21 [-0.07:0.50]	1.47E-01	0.07 [0.01:0.13]	2.40E-02	0.14 [0.06:0.22]
0.29 (±0.17)	7.96E-02	0.00 [1.00:-0.14]	9.99E-01	0.09 [0.77:-0.49]	7.72E-01	-0.04 [-0.16:0.08]	5.40E-01	0.34 [0.00:0.18]
0.98 (±0.13)	4.73E-13	0.00 [-0.07:0.08]	9.23E-01	-0.02 [-0.32:0.27]	8.71E-01	0.04 [-0.02:0.10]	2.01E-01	-0.27 [-0.35:-0.20]
0.57 (±0.17)	6.64E-04	-0.01 [-0.09:0.06]	7.77E-01	0.12 [-0.19:0.42]	4.54E-01	0.05 [-0.01:0.12]	8.60E-02	-0.02 [-0.09:0.06]
0.46 (±0.17)	6.59E-03	0.11 [0.14:-0.04]	1.42E-01	0.46 [0.14:-0.15]	1.42E-01	-0.03 [-0.15:0.09]	6.16E-01	0.35 [0.00:0.18]
0.68 (±0.18)	1.37E-04	0.01 [-0.07:0.09]	7.85E-01	-0.09 [-0.42:0.25]	6.08E-01	0.04 [-0.02:0.11]	1.88E-01	0.05 [-0.03:0.13]
0.67 (±0.17)	6.50E-05	-0.04 [-0.12:0.03]	2.84E-01	0.05 [-0.25:0.35]	7.43E-01	0.00 [-0.06:0.07]	8.92E-01	-0.10 [-0.18:-0.02]
0.91 (±0.14)	1.50E-10	-0.09 [-0.16:-0.01]	2.13E-02	-0.07 [-0.36:0.23]	6.52E-01	0.05 [-0.01:0.11]	8.76E-02	-0.21 [-0.29:-0.13]
0.67 (±0.16)	3.72E-05	0.03 [-0.05:0.10]	4.91E-01	-0.04 [-0.33:0.25]	7.86E-01	0.03 [-0.03:0.09]	3.87E-01	-0.01 [-0.09:0.07]
0.69 (±0.16)	1.46E-05	-0.01 [0.90:-0.16]	9.03E-01	0.61 [0.08:-0.08]	8.21E-02	0.09 [-0.04:0.21]	1.76E-01	-0.41 [0.00:-0.61]
0.36 (±0.17)	3.60E-02	-0.08 [-0.15:-0.01]	2.21E-02	0.22 [-0.06:0.50]	1.22E-01	-0.02 [-0.08:0.04]	4.48E-01	-0.04 [-0.12:0.04]
0.82 (±0.17)	1.40E-06	0.07 [-0.01:0.14]	1.04E-01	-0.03 [-0.34:0.29]	8.67E-01	-0.01 [-0.08:0.06]	7.65E-01	0.32 [0.24:0.41]
0.43 (±0.17)	1.21E-02	0.01 [0.94:-0.15]	9.42E-01	0.01 [0.99:-0.61]	9.87E-01	-0.06 [-0.19:0.07]	3.49E-01	-0.16 [0.06:-0.33]
0.94 (±0.14)	1.50E-11	-0.01 [-0.09:0.06]	7.70E-01	0.07 [-0.23:0.37]	6.29E-01	0.05 [-0.01:0.12]	7.89E-02	-0.32 [-0.39:-0.25]
0.22 (±0.17)	1.98E-01	0.06 [-0.01:0.14]	9.99E-02	0.02 [-0.27:0.32]	8.69E-01	0.05 [-0.01:0.11]	1.35E-01	0.03 [-0.05:0.12]
0.75 (±0.16)	1.82E-06	0.01 [0.94:-0.14]	9.36E-01	-0.11 [0.71:-0.70]	7.12E-01	-0.05 [-0.17:0.07]	3.89E-01	0.69 [0.00:0.50]
1.00 (±0.14)	2.17E-13	-0.06 [-0.13:0.02]	1.28E-01	0.16 [-0.14:0.47]	2.85E-01	0.02 [-0.04:0.09]	4.83E-01	-0.17 [-0.25:-0.09]
1.00 (±0.13)	2.42E-15	-0.04 [-0.12:0.03]	2.32E-01	0.04 [-0.25:0.33]	7.83E-01	0.04 [-0.02:0.10]	2.21E-01	-0.29 [-0.36:-0.21]
0.68 (±0.16)	2.95E-05	-0.06 [-0.13:0.02]	1.24E-01	0.31 [0.02:0.59]	3.30E-02	0.10 [0.04:0.16]	1.44E-03	-0.18 [-0.25:-0.10]
0.87 (±0.15)	3.56E-09	-0.02 [-0.10:0.05]	4.99E-01	0.07 [-0.22:0.36]	6.27E-01	0.02 [-0.04:0.08]	4.59E-01	-0.31 [-0.38:-0.23]
0.92 (±0.14)	8.78E-11	-0.04 [-0.11:0.03]	3.07E-01	0.13 [-0.16:0.43]	3.75E-01	0.04 [-0.02:0.10]	2.45E-01	-0.18 [-0.26:-0.11]
0.59 (±0.17)	3.89E-04	-0.01 [-0.08:0.06]	8.10E-01	0.04 [-0.26:0.33]	8.09E-01	0.05 [-0.01:0.11]	1.21E-01	-0.15 [-0.23:-0.07]
0.59 (±0.19)	1.58E-03	0.03 [-0.04:0.11]	4.04E-01	0.26 [-0.05:0.56]	9.76E-02	0.08 [0.02:0.14]	1.25E-02	-0.05 [-0.13:0.03]
1.00 (±0.13)	1.35E-14	-0.01 [-0.08:0.06]	8.00E-01	-0.02 [-0.31:0.28]	9.18E-01	0.05 [-0.01:0.11]	1.06E-01	-0.39 [-0.47:-0.32]
0.51 (±0.17)	3.34E-03	0.02 [-0.05:0.09]	5.61E-01	0.15 [-0.14:0.43]	3.11E-01	0.05 [-0.02:0.11]	1.45E-01	-0.11 [-0.19:-0.04]
0.92 (±0.14)	5.68E-11	-0.00 [-0.07:0.07]	9.86E-01	-0.06 [-0.35:0.23]	6.94E-01	0.06 [-0.00:0.12]	6.15E-02	-0.24 [-0.31:-0.16]
0.84 (±0.15)	1.64E-08	0.01 [-0.07:0.08]	8.43E-01	0.03 [-0.26:0.32]	8.47E-01	0.03 [-0.03:0.09]	2.59E-01	-0.17 [-0.25:-0.09]

0.69 (±0.16)	1.68E-05	-0.14 [0.07:-0.29]	7.22E-02	0.12 [0.70:-0.48]	6.97E-01	-0.10 [-0.23:0.02]	8.89E-02	-0.18 [0.04:-0.35]
0.83 (±0.15)	3.30E-08	0.01 [-0.07:0.08]	8.47E-01	-0.02 [-0.31:0.27]	9.00E-01	0.02 [-0.04:0.08]	4.81E-01	0.06 [-0.02:0.14]
0.33 (±0.18)	6.72E-02	-0.05 [-0.13:0.02]	1.58E-01	-0.35 [-0.65:-0.05]	2.20E-02	-0.05 [-0.11:0.02]	1.42E-01	-0.13 [-0.21:-0.05]
0.78 (±0.15)	4.63E-07	-0.01 [-0.08:0.06]	8.56E-01	0.20 [-0.09:0.49]	1.72E-01	-0.01 [-0.07:0.05]	8.07E-01	0.01 [-0.07:0.09]
0.52 (±0.17)	2.40E-03	-0.02 [-0.10:0.05]	5.70E-01	-0.12 [-0.42:0.19]	4.61E-01	-0.02 [-0.08:0.04]	4.82E-01	-0.19 [-0.26:-0.11]
0.91 (±0.14)	9.18E-11	-0.02 [-0.09:0.06]	6.43E-01	0.30 [0.01:0.59]	4.50E-02	-0.02 [-0.08:0.05]	6.27E-01	0.17 [0.10:0.25]
0.46 (±0.17)	6.86E-03	0.01 [-0.07:0.08]	8.88E-01	0.13 [-0.16:0.41]	3.85E-01	-0.06 [-0.12:0.00]	6.27E-02	0.05 [-0.03:0.13]
1.00 (±0.16)	1.46E-10	-0.06 [-0.14:0.02]	1.24E-01	-0.00 [-0.32:0.32]	9.92E-01	0.05 [-0.02:0.12]	1.48E-01	-0.38 [-0.46:-0.30]
0.77 (±0.16)	3.32E-06	-0.05 [-0.13:0.02]	1.53E-01	0.08 [-0.21:0.37]	5.96E-01	0.04 [-0.02:0.11]	1.77E-01	-0.23 [-0.31:-0.15]
0.83 (±0.17)	5.75E-07	-0.01 [-0.09:0.06]	7.33E-01	0.13 [-0.17:0.44]	3.93E-01	0.02 [-0.05:0.08]	5.94E-01	0.02 [-0.06:0.10]
0.81 (±0.15)	7.11E-08	-0.07 [-0.14:0.01]	7.01E-02	0.38 [0.09:0.68]	1.13E-02	-0.00 [-0.06:0.06]	9.73E-01	-0.09 [-0.17:-0.01]
1.00 (±0.13)	1.76E-15	-0.04 [-0.12:0.03]	2.74E-01	0.29 [-0.02:0.60]	6.33E-02	-0.02 [-0.08:0.05]	6.02E-01	-0.20 [-0.27:-0.12]
0.54 (±0.18)	2.85E-03	0.02 [-0.06:0.10]	6.13E-01	0.14 [-0.17:0.46]	3.68E-01	-0.00 [-0.07:0.06]	9.43E-01	-0.05 [-0.14:0.03]
0.68 (±0.16)	2.69E-05	-0.03 [-0.10:0.04]	4.32E-01	-0.03 [-0.31:0.26]	8.52E-01	-0.02 [-0.08:0.04]	4.57E-01	-0.07 [-0.15:0.00]
0.04 (±0.11)	7.43E-01	-0.01 [-0.08:0.06]	7.54E-01	0.06 [-0.22:0.34]	6.96E-01	-0.02 [-0.08:0.04]	4.66E-01	-0.07 [-0.14:0.01]
0.32 (±0.18)	7.23E-02	-0.01 [-0.09:0.06]	7.51E-01	0.29 [-0.01:0.58]	5.72E-02	0.03 [-0.03:0.09]	3.33E-01	-0.09 [-0.17:-0.01]
1.00 (±0.13)	5.09E-14	-0.04 [-0.11:0.04]	3.06E-01	-0.04 [-0.34:0.26]	7.90E-01	0.01 [-0.05:0.08]	6.74E-01	-0.31 [-0.39:-0.24]
0.67 (±0.16)	3.45E-05	-0.04 [-0.11:0.03]	2.66E-01	0.06 [-0.22:0.35]	6.67E-01	0.02 [-0.04:0.08]	5.69E-01	-0.18 [-0.26:-0.10]
1.00 (±0.13)	8.56E-15	-0.03 [-0.11:0.04]	4.07E-01	0.18 [-0.12:0.48]	2.39E-01	0.03 [-0.03:0.09]	3.58E-01	-0.19 [-0.27:-0.12]
0.22 (±0.16)	1.74E-01	-0.03 [0.69:-0.19]	6.89E-01	-0.14 [0.67:-0.78]	6.73E-01	0.02 [-0.11:0.14]	7.98E-01	-0.19 [0.04:-0.37]
0.54 (±0.17)	1.54E-03	0.00 [-0.07:0.07]	9.17E-01	0.22 [-0.07:0.50]	1.38E-01	0.05 [-0.01:0.10]	1.29E-01	-0.18 [-0.26:-0.11]
1.00 (±0.13)	8.63E-14	-0.03 [-0.11:0.04]	4.01E-01	-0.07 [-0.38:0.24]	6.72E-01	-0.00 [-0.07:0.06]	9.15E-01	-0.22 [-0.30:-0.14]
0.44 (±0.17)	1.01E-02	-0.14 [0.16:-0.32]	1.57E-01	-0.51 [0.16:-1.22]	1.62E-01	-0.02 [-0.16:0.12]	7.98E-01	-0.12 [0.29:-0.34]
0.68 (±0.16)	2.86E-05	-0.04 [-0.11:0.04]	3.39E-01	0.02 [-0.27:0.32]	8.86E-01	-0.05 [-0.11:0.01]	1.39E-01	0.12 [0.04:0.19]
0.74 (±0.16)	6.23E-06	-0.05 [-0.12:0.03]	2.12E-01	0.10 [-0.19:0.40]	4.91E-01	-0.04 [-0.10:0.02]	1.54E-01	-0.16 [-0.24:-0.08]
0.21 (±0.16)	1.78E-01	0.00 [0.98:-0.16]	9.76E-01	-0.05 [0.88:-0.68]	8.77E-01	0.05 [-0.07:0.18]	3.89E-01	-0.24 [0.01:-0.42]
0.82 (±0.16)	1.59E-07	0.02 [-0.05:0.10]	5.23E-01	0.02 [-0.27:0.31]	8.92E-01	0.00 [-0.06:0.06]	9.47E-01	0.23 [0.15:0.31]
0.35 (±0.17)	4.02E-02	-0.05 [-0.12:0.02]	1.70E-01	0.28 [-0.01:0.57]	6.18E-02	-0.01 [-0.07:0.06]	8.68E-01	0.05 [-0.03:0.13]
0.33 (±0.17)	5.34E-02	0.08 [0.46:-0.12]	4.56E-01	0.41 [0.36:-0.47]	3.61E-01	-0.03 [-0.19:0.12]	6.49E-01	0.42 [0.00:0.20]
0.81 (±0.17)	1.58E-06	-0.04 [-0.12:0.03]	2.66E-01	0.28 [-0.03:0.59]	7.32E-02	0.02 [-0.05:0.08]	6.06E-01	-0.26 [-0.34:-0.18]
0.97 (±0.14)	7.58E-13	-0.04 [-0.11:0.03]	2.78E-01	0.18 [-0.12:0.47]	2.39E-01	0.02 [-0.05:0.08]	6.04E-01	-0.07 [-0.15:0.00]
0.10 (±0.14)	4.58E-01	-0.01 [0.93:-0.15]	9.31E-01	-0.56 [0.07:-1.17]	7.10E-02	-0.06 [-0.18:0.06]	3.13E-01	-0.17 [0.05:-0.33]
0.84 (±0.16)	2.06E-07	-0.02 [-0.10:0.05]	5.47E-01	0.17 [-0.13:0.48]	2.64E-01	0.05 [-0.01:0.11]	1.26E-01	-0.31 [-0.39:-0.24]
0.27 (±0.17)	1.13E-01	-0.16 [0.03:-0.31]	3.36E-02	0.04 [0.88:-0.54]	8.82E-01	0.12 [0.00:0.24]	4.48E-02	-0.33 [0.00:-0.50]
0.44 (±0.17)	1.05E-02	-0.02 [-0.09:0.06]	6.61E-01	-0.01 [-0.31:0.29]	9.53E-01	0.05 [-0.01:0.12]	8.85E-02	0.26 [0.18:0.33]
0.93 (±0.14)	3.62E-11	-0.05 [-0.12:0.02]	1.89E-01	0.23 [-0.05:0.52]	1.03E-01	0.05 [-0.01:0.11]	1.11E-01	-0.24 [-0.32:-0.16]
0.81 (±0.16)	3.60E-07	-0.04 [-0.11:0.04]	3.24E-01	0.15 [-0.15:0.45]	3.23E-01	0.10 [0.04:0.16]	1.84E-03	-0.34 [-0.42:-0.26]
0.59 (±0.17)	4.63E-04	-0.14 [0.10:-0.30]	9.56E-02	-0.03 [0.93:-0.68]	9.30E-01	0.19 [0.06:0.32]	3.36E-03	-0.75 [0.00:-0.96]
0.67 (±0.17)	6.71E-05	-0.04 [-0.12:0.03]	2.81E-01	0.23 [-0.07:0.53]	1.32E-01	0.01 [-0.05:0.07]	7.84E-01	0.32 [0.24:0.40]
0.25 (±0.16)	1.26E-01	-0.02 [-0.09:0.06]	6.67E-01	-0.09 [-0.38:0.21]	5.71E-01	-0.02 [-0.08:0.04]	5.96E-01	0.08 [-0.00:0.16]
0.43 (±0.17)	1.10E-02	0.01 [0.93:-0.16]	9.32E-01	-0.37 [0.31:-1.09]	3.13E-01	-0.13 [-0.26:0.00]	5.85E-02	0.19 [0.05:0.00]
0.38 (±0.17)	2.64E-02	0.04 [-0.03:0.12]	2.37E-01	-0.06 [-0.36:0.24]	7.11E-01	0.00 [-0.06:0.07]	8.90E-01	0.17 [0.09:0.25]
0.77 (±0.17)	4.20E-06	-0.04 [-0.12:0.04]	3.18E-01	0.17 [-0.14:0.48]	2.92E-01	0.13 [0.06:0.19]	8.89E-05	-0.25 [-0.33:-0.17]

0.93 (±0.14)	7.18E-11	-0.01 [-0.08:0.06]	7.29E-01	0.27 [-0.02:0.56]	6.54E-02	0.09 [0.02:0.15]	5.92E-03	-0.18 [-0.26:-0.11]
0.66 (±0.18)	3.30E-04	-0.04 [-0.12:0.04]	3.07E-01	-0.32 [-0.65:0.00]	5.07E-02	-0.01 [-0.08:0.06]	8.10E-01	-0.09 [-0.18:-0.00]
1.00 (±0.13)	1.00E-13	-0.02 [-0.10:0.06]	6.14E-01	-0.18 [-0.49:0.13]	2.55E-01	0.03 [-0.03:0.09]	3.09E-01	0.18 [0.10:0.27]
0.30 (±0.17)	7.28E-02	-0.12 [0.14:-0.28]	1.37E-01	0.00 [1.00:-0.63]	9.96E-01	-0.08 [-0.20:0.04]	2.08E-01	0.18 [0.04:0.01]
0.14 (±0.15)	3.51E-01	-0.21 [0.02:-0.40]	2.44E-02	-0.37 [0.35:-1.13]	3.46E-01	0.03 [-0.11:0.16]	6.86E-01	0.01 [0.94:-0.18]
0.46 (±0.17)	7.20E-03	-0.03 [0.69:-0.18]	6.86E-01	0.05 [0.86:-0.53]	8.60E-01	-0.04 [-0.17:0.08]	4.96E-01	0.43 [0.00:0.24]
0.73 (±0.16)	3.44E-06	-0.12 [0.14:-0.28]	1.40E-01	-0.13 [0.68:-0.78]	6.83E-01	0.08 [-0.04:0.21]	2.00E-01	-0.38 [0.00:-0.55]
0.37 (±0.17)	3.07E-02	-0.06 [-0.13:0.02]	1.28E-01	-0.12 [-0.41:0.17]	4.13E-01	-0.01 [-0.07:0.05]	6.50E-01	0.17 [0.10:0.25]
0.55 (±0.17)	1.29E-03	0.05 [-0.03:0.12]	2.21E-01	0.11 [-0.18:0.41]	4.41E-01	0.08 [0.02:0.14]	8.12E-03	0.16 [0.08:0.24]
0.14 (±0.15)	3.33E-01	0.03 [0.75:-0.17]	7.49E-01	0.93 [0.06:-0.04]	6.07E-02	-0.02 [-0.17:0.13]	8.13E-01	0.15 [0.14:-0.05]
0.86 (±0.15)	4.16E-09	-0.09 [-0.16:-0.02]	1.19E-02	0.09 [-0.20:0.38]	5.33E-01	0.03 [-0.03:0.09]	2.79E-01	-0.05 [-0.12:0.03]
0.67 (±0.18)	1.40E-04	-0.10 [-0.18:-0.03]	6.84E-03	0.18 [-0.13:0.48]	2.53E-01	0.06 [-0.00:0.12]	5.43E-02	-0.16 [-0.24:-0.08]
1.00 (±0.11)	6.79E-21	-0.05 [-0.13:0.02]	1.73E-01	0.25 [-0.05:0.56]	1.06E-01	0.04 [-0.02:0.11]	1.83E-01	-0.23 [-0.30:-0.15]
0.87 (±0.15)	2.64E-09	-0.03 [-0.11:0.04]	3.86E-01	0.15 [-0.14:0.45]	3.11E-01	-0.03 [-0.09:0.04]	4.08E-01	-0.02 [-0.10:0.06]
1.00 (±0.11)	2.47E-20	-0.05 [-0.12:0.03]	2.43E-01	0.22 [-0.09:0.53]	1.74E-01	0.06 [-0.00:0.12]	5.70E-02	-0.19 [-0.27:-0.12]
0.38 (±0.18)	3.37E-02	-0.04 [-0.11:0.04]	3.42E-01	0.33 [0.03:0.63]	3.11E-02	0.01 [-0.05:0.07]	7.32E-01	0.03 [-0.05:0.11]
0.77 (±0.15)	7.10E-07	-0.07 [-0.14:0.00]	5.99E-02	0.04 [-0.24:0.32]	7.90E-01	0.02 [-0.03:0.08]	4.29E-01	0.11 [0.03:0.19]
0.91 (±0.14)	1.72E-10	-0.10 [-0.17:-0.02]	9.11E-03	-0.06 [-0.35:0.23]	6.85E-01	0.02 [-0.04:0.08]	4.41E-01	0.01 [-0.07:0.09]
0.60 (±0.17)	3.08E-04	-0.01 [-0.09:0.06]	7.25E-01	-0.13 [-0.43:0.17]	4.04E-01	-0.05 [-0.11:0.01]	1.03E-01	-0.13 [-0.21:-0.05]
0.89 (±0.15)	1.12E-09	-0.05 [-0.12:0.03]	2.18E-01	0.03 [-0.26:0.33]	8.16E-01	0.03 [-0.03:0.09]	3.82E-01	-0.01 [-0.09:0.07]
0.68 (±0.16)	3.11E-05	-0.13 [0.14:-0.30]	1.44E-01	0.01 [0.98:-0.68]	9.78E-01	0.07 [-0.06:0.21]	2.77E-01	-0.87 [0.00:-1.11]
0.17 (±0.15)	2.70E-01	0.13 [0.09:-0.02]	8.87E-02	-0.07 [0.82:-0.65]	8.18E-01	-0.03 [-0.15:0.09]	6.05E-01	0.19 [0.02:0.03]
1.00 (±0.12)	6.83E-17	-0.03 [-0.10:0.05]	4.91E-01	0.04 [-0.25:0.34]	7.83E-01	0.02 [-0.04:0.08]	4.81E-01	-0.04 [-0.12:0.04]
0.27 (±0.17)	1.07E-01	-0.14 [-0.21:-0.07]	1.68E-04	0.05 [-0.23:0.33]	7.27E-01	0.03 [-0.03:0.09]	2.95E-01	0.06 [-0.02:0.14]
0.86 (±0.15)	7.00E-09	-0.04 [-0.12:0.03]	2.64E-01	0.12 [-0.18:0.42]	4.29E-01	-0.02 [-0.08:0.05]	5.87E-01	-0.27 [-0.34:-0.19]
0.69 (±0.16)	2.10E-05	-0.03 [-0.10:0.05]	4.79E-01	-0.06 [-0.35:0.22]	6.62E-01	-0.02 [-0.08:0.04]	5.13E-01	-0.32 [-0.40:-0.25]
0.49 (±0.17)	4.54E-03	-0.05 [-0.12:0.03]	2.08E-01	0.20 [-0.10:0.50]	1.96E-01	0.02 [-0.04:0.09]	4.55E-01	-0.12 [-0.20:-0.04]
0.88 (±0.15)	1.41E-09	-0.01 [-0.09:0.06]	7.40E-01	-0.03 [-0.34:0.28]	8.65E-01	0.02 [-0.04:0.08]	5.43E-01	-0.06 [-0.13:0.02]
0.48 (±0.17)	4.80E-03	-0.11 [-0.18:-0.03]	3.73E-03	0.12 [-0.18:0.41]	4.39E-01	-0.01 [-0.07:0.05]	7.54E-01	-0.07 [-0.15:0.01]
0.93 (±0.14)	1.74E-11	-0.03 [-0.10:0.05]	4.79E-01	0.21 [-0.09:0.50]	1.75E-01	0.04 [-0.02:0.10]	1.95E-01	-0.13 [-0.21:-0.05]
0.48 (±0.17)	4.85E-03	-0.01 [0.89:-0.22]	8.87E-01	0.46 [0.24:-0.30]	2.37E-01	0.06 [-0.09:0.21]	4.14E-01	0.22 [0.06:-0.01]
0.82 (±0.15)	6.28E-08	-0.03 [-0.10:0.05]	4.93E-01	0.16 [-0.14:0.46]	3.09E-01	0.05 [-0.01:0.11]	1.01E-01	-0.07 [-0.14:0.01]
0.85 (±0.15)	8.41E-09	-0.03 [-0.10:0.04]	4.28E-01	0.26 [-0.04:0.55]	8.73E-02	0.04 [-0.02:0.10]	2.25E-01	0.15 [0.08:0.23]
0.76 (±0.16)	8.23E-07	-0.02 [-0.10:0.05]	5.74E-01	0.17 [-0.13:0.47]	2.73E-01	-0.00 [-0.06:0.06]	9.26E-01	-0.13 [-0.21:-0.06]
0.68 (±0.16)	2.81E-05	0.11 [0.23:-0.07]	2.26E-01	-0.07 [0.85:-0.76]	8.51E-01	0.01 [-0.14:0.15]	9.36E-01	0.30 [0.00:0.09]
0.54 (±0.17)	1.72E-03	-0.13 [-0.20:-0.06]	5.49E-04	-0.03 [-0.33:0.27]	8.21E-01	0.04 [-0.03:0.10]	2.71E-01	0.15 [0.07:0.23]
0.68 (±0.16)	2.51E-05	-0.05 [-0.12:0.02]	1.62E-01	-0.18 [-0.46:0.11]	2.26E-01	0.02 [-0.04:0.08]	4.28E-01	0.09 [0.01:0.17]

0.39 (±0.17)	2.14E-02	-0.04 [0.66:-0.20]	6.63E-01	-0.20 [0.56:-0.87]	5.64E-01	0.09 [-0.04:0.22]	1.97E-01	-0.24 [0.01:-0.42]
0.50 (±0.17)	3.35E-03	-0.05 [0.51:-0.20]	5.08E-01	-0.74 [0.03:-1.41]	3.06E-02	-0.00 [-0.13:0.12]	9.53E-01	-0.16 [0.06:-0.33]
0.31 (±0.17)	6.46E-02	-0.02 [0.85:-0.25]	8.51E-01	0.19 [0.70:-0.76]	6.98E-01	-0.08 [-0.23:0.07]	3.19E-01	0.15 [0.24:-0.10]
0.51 (±0.17)	2.75E-03	-0.09 [0.38:-0.29]	3.80E-01	-0.24 [0.55:-1.04]	5.46E-01	-0.09 [-0.23:0.06]	2.40E-01	-0.09 [0.39:-0.31]
0.24 (±0.16)	1.32E-01	-0.10 [0.21:-0.26]	2.10E-01	-0.28 [0.38:-0.89]	3.79E-01	-0.12 [-0.24:0.01]	6.75E-02	0.12 [0.16:-0.05]
0.37 (±0.17)	2.85E-02	-0.05 [0.53:-0.19]	5.28E-01	0.35 [0.24:-0.23]	2.36E-01	0.01 [-0.10:0.13]	8.19E-01	-0.04 [0.66:-0.20]
0.20 (±0.16)	2.12E-01	-0.12 [0.12:-0.28]	1.20E-01	0.19 [0.54:-0.42]	5.36E-01	-0.05 [-0.17:0.08]	4.81E-01	-0.01 [0.87:-0.18]
0.25 (±0.16)	1.33E-01	-0.05 [0.55:-0.19]	5.45E-01	0.20 [0.50:-0.38]	4.96E-01	0.04 [-0.08:0.16]	5.09E-01	0.24 [0.01:0.07]
0.08 (±0.13)	5.29E-01	-0.07 [0.47:-0.26]	4.65E-01	0.83 [0.08:-0.11]	8.30E-02	0.13 [-0.02:0.28]	8.04E-02	0.11 [0.29:-0.10]
0.29 (±0.19)	1.27E-01	0.01 [-0.07:0.09]	8.22E-01	0.05 [-0.28:0.38]	7.67E-01	0.00 [-0.06:0.07]	9.67E-01	0.04 [-0.05:0.12]
0.22 (±0.02)	1.66E-19	0.11 [0.18:-0.05]	1.84E-01	-0.19 [0.54:-0.82]	5.44E-01	0.06 [-0.06:0.19]	3.15E-01	-0.15 [0.09:-0.33]
0.05 (±0.12)	6.57E-01	0.06 [0.48:-0.11]	4.77E-01	-0.04 [0.91:-0.71]	9.06E-01	-0.08 [-0.21:0.06]	2.82E-01	0.06 [0.51:-0.12]
0.52 (±0.17)	1.89E-03	-0.04 [0.63:-0.21]	6.33E-01	0.04 [0.91:-0.64]	9.13E-01	-0.02 [-0.15:0.12]	8.02E-01	-0.17 [0.07:-0.35]
0.51 (±0.17)	2.74E-03	-0.13 [0.18:-0.33]	1.83E-01	0.14 [0.73:-0.63]	7.28E-01	0.07 [-0.07:0.22]	3.26E-01	-0.28 [0.01:-0.50]
0.53 (±0.17)	1.84E-03	-0.03 [0.75:-0.23]	7.48E-01	0.36 [0.40:-0.48]	3.99E-01	0.05 [-0.09:0.19]	4.82E-01	-0.13 [0.22:-0.35]
0.30 (±0.17)	7.66E-02	-0.03 [0.70:-0.19]	6.98E-01	0.67 [0.04:0.03]	3.88E-02	0.03 [-0.09:0.16]	6.33E-01	-0.34 [0.00:-0.52]
0.30 (±0.17)	7.97E-02	-0.01 [-0.08:0.07]	8.87E-01	-0.22 [-0.52:0.09]	1.62E-01	-0.02 [-0.08:0.04]	5.41E-01	-0.20 [-0.28:-0.12]
0.45 (±0.17)	8.14E-03	-0.01 [0.92:-0.17]	9.23E-01	-0.08 [0.81:-0.73]	8.11E-01	0.14 [0.01:0.27]	3.49E-02	0.41 [0.00:0.19]
0.44 (±0.17)	1.05E-02	-0.15 [0.05:-0.31]	4.76E-02	-0.09 [0.76:-0.70]	7.60E-01	0.09 [-0.04:0.21]	1.63E-01	-0.13 [0.14:-0.30]
0.00 (±0.12)	9.90E-01	0.01 [-0.07:0.08]	8.75E-01	-0.00 [-0.30:0.29]	9.83E-01	-0.03 [-0.10:0.03]	3.03E-01	0.02 [-0.07:0.11]
0.14 (±0.15)	3.32E-01	-0.09 [0.26:-0.24]	2.56E-01	-0.39 [0.20:-0.99]	2.00E-01	-0.04 [-0.16:0.09]	5.76E-01	-0.17 [0.06:-0.34]
0.19 (±0.16)	2.48E-01	-0.06 [-0.13:0.02]	1.31E-01	-0.18 [-0.47:0.12]	2.34E-01	-0.02 [-0.09:0.04]	4.61E-01	-0.13 [-0.21:-0.05]
0.22 (±0.16)	1.76E-01	-0.21 [0.06:-0.43]	6.35E-02	0.19 [0.69:-0.74]	6.90E-01	0.02 [-0.13:0.17]	7.65E-01	-0.11 [0.34:-0.34]
0.25 (±0.16)	1.19E-01	-0.12 [0.20:-0.31]	2.00E-01	0.40 [0.33:-0.40]	3.30E-01	0.09 [-0.04:0.23]	1.81E-01	0.09 [0.35:-0.10]
0.00 (±0.19)	1.00E+00	-0.08 [0.29:-0.23]	2.88E-01	0.03 [0.93:-0.58]	9.30E-01	-0.08 [-0.21:0.04]	1.70E-01	-0.17 [0.05:-0.34]
0.56 (±0.17)	7.86E-04	-0.01 [0.85:-0.17]	8.47E-01	0.03 [0.91:-0.57]	9.15E-01	0.07 [-0.06:0.19]	2.93E-01	-0.13 [0.12:-0.30]
0.08 (±0.13)	5.40E-01	-0.14 [0.16:-0.32]	1.58E-01	0.15 [0.70:-0.61]	7.04E-01	0.07 [-0.06:0.20]	3.12E-01	0.11 [0.26:-0.08]
0.53 (±0.17)	1.66E-03	-0.02 [0.78:-0.18]	7.81E-01	-0.12 [0.71:-0.77]	7.14E-01	0.07 [-0.06:0.20]	2.68E-01	-0.21 [0.02:-0.39]
0.18 (±0.16)	2.60E-01	0.02 [-0.05:0.09]	6.23E-01	-0.01 [-0.30:0.27]	9.42E-01	-0.01 [-0.07:0.06]	8.49E-01	0.07 [-0.01:0.15]
0.22 (±0.16)	1.63E-01	0.03 [0.71:-0.14]	7.08E-01	0.77 [0.01:0.17]	1.16E-02	0.05 [-0.09:0.20]	4.65E-01	0.22 [0.04:0.01]
0.25 (±0.16)	1.24E-01	0.09 [0.30:-0.08]	3.00E-01	0.05 [0.89:-0.61]	8.92E-01	-0.12 [-0.26:0.02]	9.10E-02	0.06 [0.53:-0.13]
0.47 (±0.17)	5.37E-03	0.00 [0.97:-0.23]	9.74E-01	-0.38 [0.41:-1.28]	4.13E-01	-0.03 [-0.19:0.12]	6.59E-01	-0.22 [0.10:-0.48]

0.66 (±0.16)	5.68E-05	-0.17 [0.03:-0.33]	3.45E-02	0.38 [0.22:-0.23]	2.21E-01	-0.02 [-0.15:0.11]	7.41E-01	0.02 [0.79:-0.15]
0.00 (±0.09)	1.00E+00	-0.01 [0.85:-0.16]	8.49E-01	-0.06 [0.84:-0.63]	8.43E-01	-0.03 [-0.15:0.09]	6.20E-01	-0.09 [0.30:-0.25]
0.28 (±0.17)	1.04E-01	0.01 [-0.06:0.08]	8.14E-01	-0.02 [-0.31:0.27]	8.92E-01	0.02 [-0.04:0.08]	5.83E-01	0.11 [0.03:0.19]
0.51 (±0.17)	2.85E-03	0.02 [0.85:-0.15]	8.48E-01	0.66 [0.04:0.02]	4.20E-02	0.02 [-0.12:0.15]	8.25E-01	0.23 [0.02:0.03]
0.01 (±0.11)	9.42E-01	0.00 [-0.07:0.08]	9.04E-01	-0.29 [-0.59:0.00]	5.14E-02	0.01 [-0.05:0.08]	6.58E-01	-0.08 [-0.17:0.01]
0.38 (±0.17)	2.87E-02	-0.02 [-0.10:0.05]	5.10E-01	-0.12 [-0.41:0.18]	4.45E-01	0.05 [-0.01:0.11]	1.09E-01	-0.17 [-0.25:-0.10]
0.62 (±0.17)	3.83E-04	-0.05 [-0.13:0.02]	1.82E-01	0.12 [-0.18:0.43]	4.35E-01	0.10 [0.03:0.16]	3.14E-03	-0.23 [-0.31:-0.15]
0.54 (±0.17)	1.43E-03	-0.03 [0.74:-0.18]	7.43E-01	-0.35 [0.27:-0.97]	2.70E-01	0.07 [-0.06:0.19]	2.80E-01	-0.47 [0.00:-0.65]
0.39 (±0.19)	3.90E-02	-0.02 [-0.09:0.06]	6.93E-01	-0.02 [-0.34:0.30]	9.09E-01	0.05 [-0.01:0.11]	1.23E-01	-0.25 [-0.33:-0.17]
0.89 (±0.16)	6.56E-08	-0.02 [-0.10:0.06]	5.65E-01	0.14 [-0.19:0.46]	4.23E-01	0.01 [-0.06:0.07]	8.44E-01	-0.09 [-0.17:-0.01]
0.30 (±0.17)	7.39E-02	0.04 [0.58:-0.11]	5.78E-01	-0.10 [0.76:-0.73]	7.58E-01	0.18 [0.05:0.30]	5.27E-03	-0.15 [0.09:-0.32]
0.31 (±0.18)	8.76E-02	-0.02 [-0.09:0.06]	6.93E-01	0.11 [-0.18:0.41]	4.53E-01	0.03 [-0.03:0.09]	3.72E-01	-0.12 [-0.20:-0.04]
0.61 (±0.19)	1.54E-03	-0.05 [-0.13:0.03]	2.60E-01	0.30 [-0.01:0.61]	6.12E-02	0.01 [-0.05:0.08]	6.98E-01	-0.13 [-0.22:-0.04]
0.49 (±0.17)	3.91E-03	0.03 [0.74:-0.13]	7.39E-01	-0.35 [0.27:-0.96]	2.66E-01	0.00 [-0.12:0.13]	9.43E-01	-0.33 [0.00:-0.51]
0.25 (±0.16)	1.21E-01	0.09 [0.27:-0.07]	2.71E-01	0.03 [0.91:-0.59]	9.13E-01	0.09 [-0.03:0.21]	1.47E-01	0.04 [0.67:-0.13]
0.11 (±0.14)	4.22E-01	0.07 [0.47:-0.12]	4.73E-01	-0.21 [0.59:-0.97]	5.95E-01	0.09 [-0.06:0.23]	2.50E-01	-0.06 [0.57:-0.29]
0.60 (±0.17)	3.20E-04	0.03 [-0.04:0.10]	4.09E-01	0.05 [-0.24:0.34]	7.36E-01	0.03 [-0.03:0.09]	3.16E-01	-0.11 [-0.19:-0.03]
0.35 (±0.17)	3.94E-02	-0.02 [-0.09:0.06]	6.55E-01	-0.09 [-0.39:0.20]	5.38E-01	-0.00 [-0.06:0.06]	8.90E-01	-0.08 [-0.15:0.00]
0.45 (±0.17)	7.66E-03	0.08 [0.33:-0.09]	3.34E-01	-0.38 [0.27:-1.06]	2.71E-01	-0.07 [-0.20:0.06]	3.17E-01	-0.26 [0.01:-0.45]
0.68 (±0.16)	2.54E-05	-0.01 [0.91:-0.17]	9.15E-01	-0.71 [0.07:-1.48]	7.02E-02	0.15 [0.02:0.28]	2.62E-02	-0.68 [0.00:-0.88]
0.65 (±0.18)	2.39E-04	-0.09 [-0.17:-0.01]	2.93E-02	-0.09 [-0.41:0.23]	5.92E-01	-0.02 [-0.09:0.04]	4.63E-01	-0.27 [-0.35:-0.20]
0.34 (±0.17)	4.16E-02	0.01 [0.91:-0.14]	9.12E-01	-0.03 [0.92:-0.62]	9.20E-01	0.07 [-0.05:0.20]	2.36E-01	-0.34 [0.00:-0.52]
0.18 (±0.15)	2.53E-01	0.13 [0.19:-0.06]	1.91E-01	0.25 [0.53:-0.54]	5.30E-01	0.14 [-0.01:0.30]	6.52E-02	0.21 [0.06:-0.01]
0.42 (±0.18)	1.70E-02	-0.01 [-0.08:0.07]	8.41E-01	-0.15 [-0.45:0.15]	3.18E-01	-0.13 [-0.19:-0.06]	5.77E-05	-0.19 [-0.27:-0.11]
0.31 (±0.17)	6.77E-02	-0.04 [0.59:-0.19]	5.89E-01	-0.49 [0.12:-1.10]	1.16E-01	-0.03 [-0.15:0.09]	6.03E-01	-0.15 [0.09:-0.33]
0.91 (±0.15)	1.10E-09	0.00 [-0.07:0.07]	9.66E-01	-0.27 [-0.56:0.02]	6.63E-02	-0.00 [-0.06:0.06]	9.32E-01	0.03 [-0.05:0.11]
0.95 (±0.14)	3.78E-11	0.03 [-0.05:0.10]	5.02E-01	-0.05 [-0.36:0.25]	7.40E-01	0.02 [-0.05:0.08]	6.33E-01	0.17 [0.09:0.25]
0.48 (±0.18)	7.24E-03	0.08 [0.00:0.15]	3.77E-02	-0.09 [-0.38:0.21]	5.59E-01	0.07 [0.00:0.13]	3.52E-02	0.00 [-0.08:0.08]
0.23 (±0.16)	1.47E-01	-0.20 [0.06:-0.40]	6.20E-02	-0.07 [0.87:-0.89]	8.73E-01	0.00 [-0.15:0.15]	9.81E-01	0.34 [0.00:0.11]
0.49 (±0.18)	6.75E-03	-0.04 [-0.12:0.03]	2.59E-01	0.01 [-0.30:0.32]	9.34E-01	0.01 [-0.06:0.07]	8.73E-01	-0.16 [-0.24:-0.07]
0.47 (±0.17)	5.48E-03	-0.02 [-0.10:0.05]	5.08E-01	-0.04 [-0.33:0.25]	7.91E-01	0.03 [-0.03:0.09]	3.96E-01	0.13 [0.05:0.20]
0.19 (±0.16)	2.28E-01	0.13 [0.15:-0.04]	1.45E-01	-0.09 [0.80:-0.74]	7.98E-01	0.06 [-0.08:0.19]	4.10E-01	0.27 [0.01:0.08]
0.43 (±0.17)	1.26E-02	0.01 [-0.06:0.09]	7.43E-01	0.04 [-0.25:0.34]	7.81E-01	0.11 [0.05:0.17]	4.19E-04	-0.01 [-0.09:0.07]
0.35 (±0.17)	4.08E-02	0.04 [0.67:-0.15]	6.66E-01	-0.39 [0.29:-1.10]	2.85E-01	0.11 [-0.04:0.26]	1.57E-01	-0.31 [0.01:-0.54]
0.30 (±0.17)	7.41E-02	0.09 [0.29:-0.08]	2.89E-01	-0.28 [0.40:-0.94]	4.02E-01	0.06 [-0.08:0.20]	3.77E-01	-0.21 [0.04:-0.41]
0.39 (±0.17)	2.03E-02	-0.10 [0.31:-0.28]	3.07E-01	-0.78 [0.02:-1.45]	2.04E-02	0.12 [-0.03:0.27]	1.12E-01	-0.61 [0.00:-0.86]
0.39 (±0.17)	2.36E-02	-0.09 [0.26:-0.25]	2.63E-01	-0.20 [0.53:-0.84]	5.30E-01	0.15 [0.02:0.28]	2.18E-02	-0.25 [0.01:-0.44]
0.10 (±0.13)	4.78E-01	0.26 [0.00:0.10]	1.46E-03	-0.41 [0.24:-1.08]	2.36E-01	-0.08 [-0.21:0.04]	1.99E-01	0.08 [0.36:-0.09]
0.49 (±0.17)	5.13E-03	-0.08 [-0.16:-0.01]	2.32E-02	0.21 [-0.08:0.49]	1.61E-01	0.00 [-0.06:0.06]	9.53E-01	0.17 [0.10:0.25]
0.59 (±0.17)	4.66E-04	-0.07 [-0.14:0.01]	7.45E-02	0.25 [-0.04:0.54]	8.86E-02	-0.02 [-0.08:0.04]	5.28E-01	-0.11 [-0.19:-0.03]
0.00 (±0.00)	1.00E+00	-0.04 [-0.12:0.03]	2.64E-01	-0.02 [-0.33:0.28]	8.74E-01	-0.01 [-0.08:0.05]	7.18E-01	0.00 [-0.08:0.09]
0.57 (±0.17)	6.81E-04	-0.30 [0.00:-0.48]	1.78E-03	0.01 [0.98:-0.71]	9.82E-01	0.06 [-0.09:0.20]	4.43E-01	-0.43 [0.00:-0.61]

0.14 (±0.15)	3.34E-01	0.04 [0.67:-0.14]	6.73E-01	-0.19 [0.57:-0.87]	5.70E-01	0.10 [-0.04:0.24]	1.83E-01	-0.15 [0.16:-0.36]
0.60 (±0.18)	6.89E-04	0.00 [-0.07:0.08]	9.82E-01	-0.02 [-0.32:0.28]	8.96E-01	0.04 [-0.02:0.11]	1.94E-01	0.08 [-0.00:0.16]
0.27 (±0.16)	1.04E-01	0.15 [0.06:-0.00]	5.77E-02	0.54 [0.07:-0.04]	7.04E-02	-0.05 [-0.18:0.08]	4.88E-01	-0.23 [0.01:-0.41]
0.73 (±0.16)	4.46E-06	-0.10 [0.19:-0.25]	1.92E-01	-0.30 [0.33:-0.89]	3.31E-01	0.13 [0.01:0.25]	3.13E-02	-0.73 [0.00:-0.93]
0.63 (±0.19)	7.49E-04	0.04 [-0.04:0.11]	3.86E-01	0.08 [-0.24:0.41]	6.18E-01	-0.00 [-0.07:0.06]	9.62E-01	0.27 [0.19:0.35]
0.75 (±0.18)	1.83E-05	-0.08 [-0.16:0.00]	5.02E-02	-0.19 [-0.50:0.13]	2.47E-01	0.14 [0.07:0.20]	5.01E-05	-0.19 [-0.27:-0.10]
1.00 (±0.15)	1.34E-11	-0.03 [-0.11:0.05]	4.37E-01	0.04 [-0.28:0.37]	7.93E-01	-0.07 [-0.14:-0.00]	4.99E-02	0.46 [0.37:0.54]
0.82 (±0.15)	5.82E-08	-0.06 [-0.13:0.02]	1.37E-01	0.18 [-0.12:0.47]	2.37E-01	-0.02 [-0.08:0.04]	4.36E-01	0.17 [0.09:0.25]
0.76 (±0.17)	1.22E-05	0.00 [-0.08:0.08]	9.44E-01	-0.33 [-0.65:-0.01]	4.64E-02	0.04 [-0.03:0.11]	2.39E-01	0.02 [-0.06:0.11]
0.36 (±0.17)	3.31E-02	-0.05 [0.51:-0.19]	5.09E-01	0.33 [0.25:-0.24]	2.54E-01	0.06 [-0.06:0.18]	3.01E-01	-0.41 [0.00:-0.58]
0.87 (±0.15)	2.42E-09	-0.19 [0.02:-0.35]	2.37E-02	-0.48 [0.18:-1.17]	1.79E-01	0.13 [-0.00:0.26]	5.57E-02	-1.01 [0.00:-1.22]
0.80 (±0.15)	1.25E-07	-0.13 [0.10:-0.29]	9.52E-02	-0.27 [0.41:-0.91]	4.12E-01	0.12 [-0.00:0.25]	5.04E-02	-0.99 [0.00:-1.20]
0.93 (±0.14)	2.34E-11	-0.17 [0.07:-0.35]	7.26E-02	-0.84 [0.06:-1.70]	5.92E-02	0.16 [0.02:0.30]	2.16E-02	-1.13 [0.00:-1.42]
0.40 (±0.17)	1.85E-02	-0.18 [0.02:-0.33]	2.10E-02	0.15 [0.62:-0.44]	6.22E-01	-0.01 [-0.13:0.12]	9.10E-01	-0.04 [0.66:-0.21]
0.71 (±0.16)	9.08E-06	-0.04 [-0.11:0.03]	2.88E-01	-0.22 [-0.52:0.07]	1.41E-01	0.07 [0.01:0.13]	1.93E-02	0.17 [0.10:0.25]
0.26 (±0.16)	1.09E-01	0.06 [-0.02:0.13]	1.40E-01	0.04 [-0.27:0.34]	8.19E-01	0.02 [-0.04:0.08]	4.93E-01	-0.05 [-0.13:0.03]
0.87 (±0.15)	8.00E-09	-0.04 [-0.12:0.03]	2.78E-01	0.13 [-0.17:0.44]	3.85E-01	-0.03 [-0.10:0.03]	2.97E-01	0.33 [0.25:0.41]
0.59 (±0.17)	4.32E-04	0.01 [0.91:-0.13]	9.06E-01	0.29 [0.31:-0.28]	3.13E-01	0.01 [-0.10:0.13]	8.19E-01	0.13 [0.11:-0.03]
0.55 (±0.17)	1.09E-03	-0.16 [0.05:-0.32]	5.08E-02	0.63 [0.09:-0.09]	8.58E-02	0.02 [-0.11:0.15]	7.80E-01	0.57 [0.00:0.37]
0.53 (±0.17)	1.56E-03	-0.06 [0.46:-0.21]	4.56E-01	-0.39 [0.18:-0.97]	1.85E-01	-0.05 [-0.17:0.08]	4.60E-01	0.38 [0.00:0.21]
0.88 (±0.15)	1.55E-09	0.02 [0.81:-0.15]	8.15E-01	-0.14 [0.71:-0.85]	7.10E-01	0.08 [-0.06:0.23]	2.51E-01	-1.17 [0.00:-1.41]
0.43 (±0.19)	2.29E-02	-0.03 [-0.11:0.04]	4.08E-01	0.00 [-0.32:0.32]	9.87E-01	-0.07 [-0.14:-0.00]	3.86E-02	0.06 [-0.03:0.14]
0.59 (±0.17)	4.04E-04	0.06 [0.55:-0.14]	5.48E-01	-0.92 [0.07:-1.93]	7.12E-02	-0.04 [-0.19:0.11]	6.22E-01	-0.46 [0.00:-0.67]
0.02 (±0.34)	9.61E-01	-0.00 [0.97:-0.16]	9.72E-01	-0.07 [0.83:-0.70]	8.34E-01	0.08 [-0.05:0.21]	2.21E-01	-0.37 [0.00:-0.57]
0.87 (±0.15)	2.09E-09	-0.09 [0.37:-0.28]	3.70E-01	0.14 [0.71:-0.62]	7.14E-01	0.01 [-0.14:0.15]	9.44E-01	-0.70 [0.00:-0.92]
0.75 (±0.17)	5.89E-06	-0.08 [-0.16:-0.01]	3.66E-02	-0.12 [-0.43:0.19]	4.39E-01	0.01 [-0.06:0.07]	8.78E-01	-0.25 [-0.33:-0.16]
0.78 (±0.15)	3.33E-07	-0.08 [0.29:-0.24]	2.87E-01	0.10 [0.74:-0.50]	7.38E-01	0.07 [-0.05:0.20]	2.49E-01	-0.46 [0.00:-0.63]
0.36 (±0.17)	3.63E-02	0.13 [0.13:-0.04]	1.34E-01	-0.58 [0.17:-1.40]	1.66E-01	0.10 [-0.04:0.25]	1.61E-01	-0.34 [0.00:-0.54]
0.30 (±0.17)	7.63E-02	0.02 [0.75:-0.12]	7.54E-01	-0.36 [0.23:-0.95]	2.33E-01	0.19 [0.07:0.31]	2.34E-03	-0.21 [0.01:-0.38]
0.83 (±0.15)	2.41E-08	-0.01 [-0.08:0.06]	7.99E-01	-0.19 [-0.48:0.10]	1.94E-01	0.12 [0.06:0.18]	8.73E-05	-0.19 [-0.26:-0.11]
0.69 (±0.16)	1.68E-05	-0.01 [-0.08:0.06]	7.70E-01	-0.08 [-0.37:0.20]	5.75E-01	0.11 [0.05:0.17]	3.85E-04	-0.23 [-0.31:-0.16]
0.78 (±0.18)	2.35E-05	-0.01 [-0.09:0.07]	8.67E-01	0.06 [-0.25:0.37]	7.18E-01	0.03 [-0.03:0.10]	3.20E-01	-0.21 [-0.30:-0.13]
0.11 (±0.14)	4.45E-01	0.04 [0.67:-0.13]	6.71E-01	0.18 [0.60:-0.50]	6.04E-01	-0.11 [-0.24:0.03]	1.24E-01	0.09 [0.30:-0.08]
0.56 (±0.17)	1.08E-03	-0.02 [-0.09:0.05]	6.13E-01	0.09 [-0.21:0.39]	5.45E-01	-0.04 [-0.10:0.02]	2.42E-01	0.26 [0.18:0.34]
0.01 (±0.27)	9.79E-01	0.12 [0.14:-0.04]	1.36E-01	0.12 [0.71:-0.53]	7.13E-01	0.14 [0.00:0.27]	4.58E-02	-0.38 [0.00:-0.58]
0.58 (±0.17)	4.67E-04	0.00 [-0.07:0.08]	9.05E-01	-0.03 [-0.33:0.26]	8.21E-01	0.07 [0.01:0.13]	3.01E-02	0.08 [-0.00:0.16]
0.77 (±0.16)	7.29E-07	-0.00 [-0.07:0.07]	9.60E-01	-0.26 [-0.55:0.04]	8.54E-02	0.13 [0.07:0.19]	1.06E-05	-0.34 [-0.42:-0.27]
1.00 (±0.13)	2.20E-14	-0.01 [-0.08:0.07]	8.56E-01	0.19 [-0.11:0.49]	2.23E-01	-0.07 [-0.13:-0.01]	3.21E-02	0.47 [0.40:0.54]
0.74 (±0.16)	3.68E-06	-0.05 [-0.13:0.02]	1.61E-01	-0.38 [-0.68:-0.07]	1.61E-02	0.03 [-0.03:0.10]	3.29E-01	-0.13 [-0.21:-0.05]
0.35 (±0.17)	3.86E-02	0.06 [0.44:-0.09]	4.44E-01	0.00 [0.99:-0.58]	9.87E-01	-0.03 [-0.15:0.09]	6.02E-01	0.23 [0.01:0.06]
0.54 (±0.19)	3.67E-03	-0.07 [-0.15:0.01]	8.93E-02	-0.17 [-0.49:0.16]	3.16E-01	0.10 [0.04:0.17]	1.67E-03	-0.12 [-0.20:-0.04]

0.06 (±0.12)	6.22E-01	0.05 [-0.03:0.12]	2.07E-01	-0.06 [-0.36:0.23]	6.85E-01	0.00 [-0.06:0.06]	8.85E-01	0.09 [0.01:0.17]
0.88 (±0.15)	4.26E-09	-0.02 [-0.10:0.05]	5.25E-01	0.22 [-0.09:0.52]	1.61E-01	-0.05 [-0.11:0.01]	9.79E-02	0.27 [0.19:0.35]
0.27 (±0.18)	1.32E-01	0.01 [-0.07:0.09]	7.99E-01	-0.06 [-0.37:0.25]	7.20E-01	-0.03 [-0.09:0.04]	4.00E-01	0.13 [0.04:0.21]
0.61 (±0.17)	2.31E-04	0.03 [-0.05:0.10]	5.00E-01	0.24 [-0.06:0.53]	1.22E-01	0.03 [-0.03:0.09]	3.13E-01	0.03 [-0.05:0.10]
0.48 (±0.17)	4.48E-03	0.06 [0.58:-0.14]	5.78E-01	0.39 [0.30:-0.35]	3.00E-01	0.02 [-0.13:0.17]	8.00E-01	-0.03 [0.77:-0.24]
0.89 (±0.15)	1.76E-09	-0.06 [-0.14:0.01]	1.02E-01	-0.08 [-0.38:0.22]	6.04E-01	0.08 [0.01:0.14]	1.49E-02	-0.34 [-0.41:-0.26]
0.79 (±0.15)	2.26E-07	-0.08 [-0.15:-0.01]	3.07E-02	-0.33 [-0.62:-0.03]	2.92E-02	0.11 [0.05:0.18]	2.02E-04	-0.28 [-0.36:-0.21]
0.68 (±0.16)	2.60E-05	-0.00 [-0.08:0.07]	9.15E-01	0.11 [-0.19:0.41]	4.70E-01	0.01 [-0.05:0.07]	7.09E-01	-0.11 [-0.19:-0.03]
0.31 (±0.20)	1.30E-01	-0.02 [-0.09:0.06]	6.99E-01	-0.04 [-0.34:0.26]	7.93E-01	-0.01 [-0.08:0.06]	8.15E-01	-0.20 [-0.28:-0.12]
0.93 (±0.15)	2.12E-10	-0.07 [-0.14:0.01]	7.53E-02	-0.05 [-0.35:0.26]	7.64E-01	0.10 [0.04:0.17]	1.37E-03	0.20 [0.11:0.29]
0.51 (±0.17)	2.50E-03	0.05 [0.47:-0.09]	4.71E-01	-0.13 [0.66:-0.74]	6.63E-01	0.05 [-0.08:0.17]	4.48E-01	-0.44 [0.00:-0.61]
0.78 (±0.15)	3.41E-07	-0.20 [0.01:-0.36]	1.21E-02	-0.32 [0.32:-0.96]	3.16E-01	0.10 [-0.03:0.22]	1.19E-01	-0.99 [0.00:-1.21]
0.72 (±0.16)	5.67E-06	0.03 [-0.04:0.10]	4.45E-01	-0.23 [-0.52:0.06]	1.25E-01	0.02 [-0.04:0.08]	4.73E-01	0.17 [0.10:0.25]
0.89 (±0.14)	4.56E-10	-0.01 [-0.08:0.07]	8.40E-01	0.18 [-0.11:0.47]	2.32E-01	0.05 [-0.01:0.11]	1.17E-01	-0.14 [-0.22:-0.05]
0.97 (±0.14)	1.38E-12	-0.05 [-0.13:0.02]	1.48E-01	-0.13 [-0.42:0.17]	3.99E-01	0.09 [0.02:0.15]	5.87E-03	-0.24 [-0.32:-0.16]
0.40 (±0.17)	1.93E-02	-0.07 [0.42:-0.23]	4.18E-01	-0.77 [0.03:-1.48]	3.50E-02	-0.04 [-0.17:0.08]	5.13E-01	-0.38 [0.00:-0.56]
0.40 (±0.17)	1.98E-02	0.05 [-0.03:0.12]	2.00E-01	-0.34 [-0.64:-0.04]	2.42E-02	0.06 [0.00:0.12]	4.76E-02	-0.15 [-0.23:-0.08]
0.77 (±0.16)	1.04E-06	-0.01 [-0.08:0.06]	7.81E-01	-0.38 [-0.69:-0.08]	1.41E-02	0.11 [0.04:0.17]	8.81E-04	-0.36 [-0.43:-0.29]
0.41 (±0.18)	2.64E-02	-0.07 [-0.14:0.01]	7.47E-02	0.21 [-0.08:0.51]	1.60E-01	0.02 [-0.04:0.09]	4.86E-01	0.22 [0.14:0.30]
0.63 (±0.16)	1.32E-04	0.06 [-0.01:0.13]	1.00E-01	-0.21 [-0.50:0.09]	1.73E-01	0.07 [0.01:0.13]	3.13E-02	0.22 [0.15:0.30]
0.70 (±0.16)	1.43E-05	0.05 [-0.02:0.12]	1.62E-01	-0.31 [-0.60:-0.02]	3.84E-02	0.09 [0.03:0.15]	3.32E-03	-0.30 [-0.38:-0.23]
0.91 (±0.14)	3.13E-10	0.01 [-0.07:0.08]	8.13E-01	-0.27 [-0.58:0.04]	8.51E-02	0.11 [0.05:0.17]	5.25E-04	-0.41 [-0.48:-0.34]
0.93 (±0.14)	2.81E-11	0.06 [-0.02:0.14]	1.33E-01	-0.05 [-0.37:0.26]	7.37E-01	-0.08 [-0.14:-0.01]	1.89E-02	0.33 [0.26:0.40]
0.67 (±0.17)	9.00E-05	0.04 [-0.03:0.12]	2.60E-01	-0.28 [-0.58:0.03]	7.44E-02	0.07 [0.01:0.13]	3.24E-02	-0.26 [-0.34:-0.19]
0.23 (±0.16)	1.46E-01	0.03 [-0.05:0.10]	4.86E-01	-0.28 [-0.57:0.02]	6.75E-02	0.01 [-0.05:0.07]	7.90E-01	-0.02 [-0.10:0.06]
0.45 (±0.17)	8.89E-03	-0.17 [0.06:-0.34]	6.18E-02	0.06 [0.85:-0.61]	8.52E-01	0.08 [-0.06:0.22]	2.73E-01	-0.38 [0.00:-0.56]
0.00 (±0.09)	1.00E+00	-0.19 [0.02:-0.35]	2.36E-02	0.84 [0.02:0.11]	2.39E-02	0.10 [-0.03:0.22]	1.40E-01	-0.06 [0.51:-0.24]
0.29 (±0.17)	8.51E-02	0.05 [-0.02:0.13]	1.53E-01	-0.20 [-0.49:0.09]	1.82E-01	0.04 [-0.02:0.10]	2.41E-01	-0.02 [-0.10:0.06]
0.63 (±0.16)	1.15E-04	-0.02 [-0.09:0.05]	6.03E-01	0.06 [-0.24:0.36]	7.09E-01	-0.03 [-0.09:0.03]	3.59E-01	-0.09 [-0.17:-0.01]
0.75 (±0.16)	1.57E-06	-0.04 [-0.11:0.03]	2.18E-01	0.11 [-0.17:0.39]	4.43E-01	-0.03 [-0.09:0.03]	3.16E-01	0.17 [0.10:0.25]
0.55 (±0.17)	1.19E-03	-0.05 [-0.13:0.02]	1.42E-01	0.16 [-0.13:0.45]	2.78E-01	-0.02 [-0.08:0.04]	5.41E-01	-0.04 [-0.12:0.04]
1.00 (±0.14)	1.11E-12	-0.09 [-0.17:-0.01]	2.10E-02	0.27 [-0.05:0.58]	9.69E-02	-0.02 [-0.09:0.04]	5.04E-01	-0.13 [-0.21:-0.05]
0.68 (±0.17)	6.18E-05	-0.01 [-0.09:0.06]	7.12E-01	0.08 [-0.21:0.38]	5.78E-01	-0.05 [-0.11:0.01]	1.31E-01	-0.20 [-0.28:-0.12]
0.41 (±0.17)	1.69E-02	-0.05 [0.65:-0.25]	6.45E-01	0.23 [0.59:-0.61]	5.91E-01	0.06 [-0.08:0.20]	4.11E-01	-0.05 [0.69:-0.27]
0.82 (±0.16)	3.08E-07	-0.00 [-0.08:0.08]	9.90E-01	-0.08 [-0.39:0.23]	6.06E-01	0.01 [-0.05:0.08]	6.56E-01	-0.17 [-0.25:-0.09]
0.69 (±0.17)	3.57E-05	0.02 [-0.06:0.09]	6.48E-01	0.00 [-0.30:0.31]	9.80E-01	-0.00 [-0.06:0.06]	9.71E-01	-0.17 [-0.25:-0.09]
0.83 (±0.15)	3.39E-08	0.02 [0.85:-0.15]	8.50E-01	-0.49 [0.14:-1.15]	1.42E-01	-0.02 [-0.14:0.11]	7.64E-01	-0.46 [0.00:-0.67]
0.90 (±0.15)	5.57E-10	0.02 [-0.06:0.09]	6.49E-01	-0.16 [-0.47:0.16]	3.22E-01	0.03 [-0.03:0.09]	3.42E-01	-0.24 [-0.32:-0.16]
0.61 (±0.17)	1.99E-04	-0.02 [0.79:-0.20]	7.93E-01	-0.10 [0.78:-0.80]	7.84E-01	0.05 [-0.09:0.19]	4.68E-01	-0.63 [0.00:-0.84]
0.46 (±0.17)	7.07E-03	0.03 [0.66:-0.11]	6.56E-01	-0.62 [0.04:-1.21]	3.53E-02	-0.01 [-0.13:0.12]	9.29E-01	-0.14 [0.10:-0.30]
0.78 (±0.18)	1.48E-05	-0.01 [-0.09:0.07]	8.55E-01	-0.21 [-0.55:0.12]	2.19E-01	-0.01 [-0.08:0.06]	7.13E-01	-0.25 [-0.34:-0.17]
0.52 (±0.17)	2.06E-03	-0.16 [0.07:-0.34]	7.48E-02	0.81 [0.05:-0.01]	5.35E-02	0.16 [0.03:0.29]	1.93E-02	-0.18 [0.06:-0.38]
0.82 (±0.15)	5.82E-08	-0.20 [0.01:-0.36]	1.44E-02	0.08 [0.81:-0.54]	8.06E-01	0.11 [-0.02:0.23]	1.03E-01	-0.14 [0.09:-0.31]
0.74 (±0.16)	2.00E-06	0.03 [0.68:-0.12]	6.79E-01	0.02 [0.95:-0.59]	9.46E-01	0.06 [-0.07:0.18]	3.52E-01	-0.36 [0.00:-0.56]
0.84 (±0.16)	6.68E-08	-0.05 [-0.12:0.03]	1.99E-01	0.23 [-0.08:0.54]	1.44E-01	-0.09 [-0.15:-0.02]	7.23E-03	0.30 [0.22:0.38]
NA (±NA)		0.02 [-0.05:0.10]	5.38E-01	-0.17 [-0.48:0.13]	2.70E-01	-0.02 [-0.08:0.04]	5.72E-01	-0.22 [-0.29:-0.14]

0.44 (±0.17)	9.89E-03	0.05 [-0.03:0.12]	2.25E-01	-0.05 [-0.34:0.24]	7.44E-01	-0.02 [-0.08:0.04]	4.41E-01	0.10 [0.02:0.18]
0.46 (±0.18)	1.02E-02	-0.03 [-0.10:0.05]	4.85E-01	-0.21 [-0.51:0.09]	1.78E-01	0.02 [-0.04:0.09]	4.50E-01	-0.27 [-0.35:-0.20]
0.59 (±0.17)	3.81E-04	0.01 [0.85:-0.13]	8.54E-01	-0.02 [0.95:-0.61]	9.52E-01	-0.04 [-0.16:0.09]	5.65E-01	0.54 [0.00:0.35]
0.79 (±0.17)	1.97E-06	-0.08 [-0.16:-0.00]	4.28E-02	-0.17 [-0.48:0.14]	2.73E-01	0.01 [-0.05:0.08]	7.41E-01	-0.29 [-0.37:-0.21]
0.36 (±0.17)	3.31E-02	0.05 [0.48:-0.09]	4.75E-01	0.28 [0.35:-0.31]	3.53E-01	0.09 [-0.03:0.21]	1.48E-01	-0.25 [0.00:-0.42]
0.94 (±0.14)	1.07E-11	-0.04 [-0.11:0.03]	3.05E-01	-0.12 [-0.41:0.17]	4.20E-01	0.06 [0.00:0.12]	3.92E-02	-0.37 [-0.44:-0.29]
0.46 (±0.17)	7.29E-03	-0.15 [0.13:-0.35]	1.28E-01	0.58 [0.18:-0.27]	1.83E-01	0.14 [0.00:0.28]	4.82E-02	-0.31 [0.00:-0.51]
0.43 (±0.18)	2.08E-02	-0.05 [-0.12:0.03]	2.33E-01	-0.29 [-0.59:0.01]	5.96E-02	0.09 [0.02:0.15]	6.36E-03	0.13 [0.05:0.22]
0.08 (±0.13)	5.37E-01	0.06 [-0.02:0.13]	1.25E-01	-0.03 [-0.32:0.27]	8.63E-01	0.02 [-0.04:0.08]	5.61E-01	0.10 [0.02:0.18]
0.37 (±0.17)	3.30E-02	0.03 [-0.04:0.11]	3.81E-01	0.20 [-0.11:0.51]	1.98E-01	-0.03 [-0.09:0.03]	3.26E-01	0.10 [0.02:0.18]
0.32 (±0.17)	5.79E-02	0.02 [-0.06:0.09]	6.30E-01	-0.07 [-0.37:0.23]	6.45E-01	-0.05 [-0.12:0.01]	8.42E-02	-0.11 [-0.18:-0.03]
0.13 (±0.14)	3.55E-01	0.03 [-0.05:0.10]	4.70E-01	-0.13 [-0.43:0.16]	3.76E-01	-0.04 [-0.10:0.02]	1.72E-01	-0.05 [-0.13:0.03]
0.17 (±0.15)	2.61E-01	0.11 [0.16:-0.04]	1.63E-01	-0.05 [0.88:-0.64]	8.76E-01	0.08 [-0.04:0.21]	1.69E-01	-0.05 [0.52:-0.22]
1.00 (±0.13)	9.76E-14	-0.03 [-0.11:0.05]	4.42E-01	-0.05 [-0.36:0.25]	7.36E-01	0.05 [-0.01:0.12]	9.47E-02	-0.33 [-0.40:-0.25]
0.83 (±0.15)	3.71E-08	-0.07 [-0.15:-0.00]	4.96E-02	0.15 [-0.14:0.44]	3.19E-01	0.11 [0.05:0.17]	2.72E-04	-0.24 [-0.31:-0.16]
0.27 (±0.16)	1.03E-01	-0.14 [0.19:-0.35]	1.90E-01	-0.15 [0.72:-0.99]	7.24E-01	-0.01 [-0.16:0.14]	9.15E-01	-0.06 [0.62:-0.31]
0.88 (±0.15)	1.17E-09	-0.03 [-0.10:0.04]	4.12E-01	-0.21 [-0.50:0.08]	1.58E-01	0.10 [0.04:0.16]	1.51E-03	-0.11 [-0.19:-0.03]
0.44 (±0.17)	1.11E-02	-0.02 [-0.09:0.06]	6.74E-01	0.42 [0.12:0.71]	5.49E-03	-0.05 [-0.11:0.01]	1.13E-01	0.05 [-0.03:0.12]
0.89 (±0.15)	7.49E-10	-0.05 [-0.12:0.02]	1.85E-01	0.03 [-0.27:0.32]	8.68E-01	-0.01 [-0.07:0.05]	7.83E-01	-0.31 [-0.38:-0.23]
0.75 (±0.17)	6.54E-06	0.05 [-0.03:0.13]	2.07E-01	0.01 [-0.29:0.31]	9.62E-01	0.04 [-0.03:0.10]	2.38E-01	0.11 [0.03:0.20]
0.09 (±0.14)	4.92E-01	-0.14 [0.25:-0.37]	2.50E-01	-0.15 [0.75:-1.09]	7.50E-01	0.01 [-0.15:0.16]	9.30E-01	0.06 [0.65:-0.19]
0.81 (±0.17)	1.12E-06	-0.09 [-0.16:-0.01]	3.53E-02	-0.02 [-0.33:0.28]	8.79E-01	0.06 [-0.01:0.12]	9.63E-02	-0.44 [-0.51:-0.36]
0.00 (±0.28)	1.00E+00	-0.07 [0.39:-0.24]	3.95E-01	0.14 [0.69:-0.54]	6.92E-01	-0.03 [-0.17:0.11]	6.35E-01	-0.31 [0.00:-0.51]
0.65 (±0.16)	6.98E-05	-0.03 [-0.11:0.04]	3.62E-01	0.31 [0.02:0.60]	3.66E-02	-0.03 [-0.09:0.03]	3.73E-01	-0.08 [-0.16:-0.01]
0.37 (±0.17)	2.94E-02	0.09 [0.01:0.16]	2.04E-02	-0.07 [-0.37:0.22]	6.19E-01	0.04 [-0.02:0.11]	1.48E-01	0.10 [0.02:0.18]
0.38 (±0.17)	2.64E-02	0.05 [-0.02:0.13]	1.60E-01	0.08 [-0.22:0.37]	6.08E-01	0.04 [-0.02:0.10]	1.68E-01	-0.18 [-0.26:-0.10]
0.49 (±0.17)	3.72E-03	0.05 [-0.03:0.12]	2.00E-01	0.01 [-0.28:0.31]	9.28E-01	0.06 [0.00:0.12]	4.50E-02	0.05 [-0.03:0.13]
0.73 (±0.17)	2.43E-05	0.08 [-0.01:0.16]	7.07E-02	-0.14 [-0.47:0.18]	3.97E-01	-0.01 [-0.08:0.06]	7.31E-01	0.37 [0.29:0.45]
0.00 (±0.02)	1.00E+00	0.00 [-0.07:0.08]	9.21E-01	-0.06 [-0.35:0.24]	7.00E-01	-0.05 [-0.11:0.01]	8.94E-02	0.02 [-0.05:0.10]
0.98 (±0.14)	7.88E-13	-0.01 [-0.09:0.06]	7.08E-01	-0.12 [-0.42:0.18]	4.33E-01	0.06 [-0.01:0.12]	8.40E-02	-0.34 [-0.42:-0.27]
0.76 (±0.16)	1.11E-06	-0.12 [0.11:-0.28]	1.11E-01	-0.28 [0.38:-0.89]	3.78E-01	0.12 [-0.00:0.24]	5.72E-02	-0.68 [0.00:-0.87]
0.44 (±0.17)	9.83E-03	0.06 [-0.01:0.14]	1.02E-01	-0.05 [-0.35:0.25]	7.41E-01	0.05 [-0.01:0.11]	1.13E-01	0.03 [-0.05:0.11]
0.44 (±0.17)	1.01E-02	-0.01 [-0.09:0.06]	6.92E-01	-0.05 [-0.35:0.24]	7.16E-01	0.02 [-0.04:0.08]	5.22E-01	-0.18 [-0.26:-0.10]
0.25 (±0.16)	1.31E-01	-0.13 [0.14:-0.29]	1.36E-01	0.35 [0.34:-0.37]	3.38E-01	0.02 [-0.12:0.15]	8.01E-01	0.12 [0.17:-0.05]
0.92 (±0.14)	5.54E-11	-0.02 [-0.10:0.05]	5.15E-01	0.01 [-0.29:0.31]	9.32E-01	0.07 [0.01:0.13]	2.19E-02	-0.31 [-0.38:-0.23]
0.66 (±0.17)	1.07E-04	-0.02 [-0.09:0.05]	6.36E-01	0.14 [-0.16:0.43]	3.62E-01	0.03 [-0.03:0.09]	3.58E-01	-0.09 [-0.17:-0.01]
0.06 (±0.12)	6.22E-01	0.04 [0.63:-0.11]	6.27E-01	-0.30 [0.33:-0.90]	3.26E-01	0.02 [-0.10:0.14]	7.06E-01	-0.13 [0.12:-0.30]
0.36 (±0.17)	3.22E-02	-0.13 [0.19:-0.31]	1.86E-01	-0.17 [0.64:-0.91]	6.44E-01	0.09 [-0.05:0.22]	2.25E-01	-0.54 [0.00:-0.77]
0.25 (±0.16)	1.26E-01	0.05 [0.58:-0.13]	5.80E-01	0.46 [0.25:-0.33]	2.53E-01	0.04 [-0.10:0.19]	5.69E-01	0.35 [0.00:0.15]
0.71 (±0.16)	7.21E-06	-0.06 [-0.14:0.01]	8.89E-02	0.15 [-0.15:0.44]	3.29E-01	0.05 [-0.01:0.11]	1.22E-01	-0.34 [-0.41:-0.27]
0.50 (±0.17)	3.52E-03	-0.03 [0.68:-0.19]	6.83E-01	-0.24 [0.46:-0.86]	4.57E-01	0.02 [-0.10:0.15]	7.15E-01	-0.69 [0.00:-0.91]
0.79 (±0.15)	2.51E-07	-0.06 [0.51:-0.25]	5.08E-01	-0.36 [0.38:-1.17]	3.85E-01	0.11 [-0.04:0.26]	1.40E-01	-0.97 [0.00:-1.20]
0.66 (±0.16)	4.71E-05	-0.06 [0.43:-0.22]	4.33E-01	-0.33 [0.35:-1.02]	3.53E-01	-0.00 [-0.14:0.13]	9.52E-01	-0.88 [0.00:-1.09]
0.14 (±0.16)	3.56E-01	0.12 [0.04:0.20]	1.78E-03	-0.35 [-0.65:-0.04]	2.74E-02	0.06 [-0.00:0.13]	5.83E-02	-0.07 [-0.15:0.01]
0.40 (±0.18)	2.61E-02	0.01 [-0.06:0.09]	7.48E-01	-0.23 [-0.53:0.07]	1.33E-01	0.07 [0.01:0.13]	3.24E-02	-0.04 [-0.12:0.04]
0.95 (±0.14)	4.28E-12	0.01 [-0.06:0.08]	7.83E-01	0.14 [-0.16:0.44]	3.57E-01	-0.05 [-0.11:0.01]	9.99E-02	0.43 [0.36:0.50]

0.85 (±0.15)	7.03E-09	-0.05 [-0.12:0.03]	2.16E-01	-0.11 [-0.41:0.19]	4.81E-01	0.12 [0.05:0.18]	2.19E-04	-0.31 [-0.38:-0.23]
0.89 (±0.14)	6.98E-10	-0.03 [-0.10:0.05]	4.63E-01	-0.01 [-0.31:0.28]	9.34E-01	0.09 [0.03:0.15]	2.14E-03	-0.31 [-0.38:-0.24]
0.72 (±0.16)	5.45E-06	0.03 [-0.04:0.11]	3.73E-01	-0.00 [-0.30:0.30]	9.98E-01	0.05 [-0.01:0.11]	1.12E-01	0.18 [0.10:0.26]
0.51 (±0.17)	2.41E-03	-0.12 [0.24:-0.32]	2.42E-01	0.31 [0.43:-0.45]	4.26E-01	0.07 [-0.08:0.21]	3.73E-01	-0.57 [0.00:-0.78]
0.74 (±0.16)	2.66E-06	-0.04 [-0.11:0.03]	2.93E-01	0.02 [-0.27:0.32]	8.77E-01	0.06 [0.00:0.12]	4.51E-02	-0.35 [-0.43:-0.28]
0.61 (±0.17)	2.06E-04	-0.07 [0.43:-0.25]	4.25E-01	-0.48 [0.19:-1.21]	1.89E-01	0.27 [0.14:0.40]	2.68E-05	-0.75 [0.00:-0.97]
0.23 (±0.16)	1.54E-01	-0.16 [0.05:-0.32]	5.13E-02	-0.86 [0.02:-1.60]	2.25E-02	0.09 [-0.04:0.22]	1.56E-01	-0.10 [0.24:-0.27]
0.83 (±0.15)	3.18E-08	-0.04 [-0.12:0.03]	2.49E-01	0.10 [-0.21:0.40]	5.33E-01	-0.07 [-0.13:-0.01]	2.65E-02	0.41 [0.34:0.48]
0.32 (±0.17)	5.59E-02	-0.05 [0.52:-0.20]	5.19E-01	-0.29 [0.33:-0.87]	3.29E-01	0.03 [-0.10:0.15]	6.62E-01	-0.08 [0.37:-0.25]
0.31 (±0.17)	6.85E-02	0.00 [0.97:-0.14]	9.71E-01	-0.38 [0.20:-0.97]	2.03E-01	-0.03 [-0.15:0.09]	6.53E-01	-0.39 [0.00:-0.57]
0.72 (±0.16)	6.26E-06	0.00 [0.98:-0.15]	9.76E-01	0.06 [0.84:-0.56]	8.43E-01	-0.06 [-0.19:0.07]	3.63E-01	-0.51 [0.00:-0.69]
0.48 (±0.17)	4.56E-03	-0.02 [0.79:-0.17]	7.88E-01	-0.47 [0.12:-1.07]	1.19E-01	0.03 [-0.10:0.15]	6.76E-01	-0.23 [0.01:-0.40]
0.60 (±0.17)	3.24E-04	0.00 [0.97:-0.15]	9.72E-01	-0.18 [0.56:-0.81]	5.64E-01	-0.12 [-0.24:0.01]	6.84E-02	-0.37 [0.00:-0.55]
0.11 (±0.14)	4.44E-01	-0.09 [0.34:-0.28]	3.43E-01	-0.45 [0.22:-1.17]	2.24E-01	-0.07 [-0.21:0.08]	3.68E-01	-0.11 [0.33:-0.33]
0.83 (±0.15)	3.71E-08	-0.08 [-0.15:-0.00]	4.33E-02	-0.04 [-0.34:0.25]	7.81E-01	0.07 [0.00:0.13]	3.70E-02	-0.22 [-0.30:-0.15]
0.83 (±0.15)	2.81E-08	0.00 [-0.07:0.08]	9.58E-01	-0.07 [-0.36:0.23]	6.60E-01	-0.02 [-0.08:0.05]	6.15E-01	0.30 [0.22:0.37]
0.48 (±0.17)	5.20E-03	-0.18 [0.03:-0.34]	2.99E-02	-0.08 [0.79:-0.72]	7.95E-01	0.12 [-0.02:0.25]	8.77E-02	-0.59 [0.00:-0.82]
0.44 (±0.17)	1.05E-02	0.02 [0.76:-0.13]	7.61E-01	-0.56 [0.08:-1.19]	8.43E-02	0.09 [-0.04:0.21]	1.67E-01	-0.63 [0.00:-0.83]
0.60 (±0.17)	3.65E-04	0.01 [-0.06:0.09]	7.28E-01	0.13 [-0.16:0.43]	3.74E-01	0.04 [-0.02:0.10]	1.71E-01	-0.03 [-0.11:0.05]
1.00 (±0.11)	4.95E-19	-0.02 [-0.10:0.05]	5.28E-01	0.12 [-0.17:0.42]	4.09E-01	0.05 [-0.01:0.11]	1.32E-01	0.06 [-0.02:0.14]
0.98 (±0.14)	1.77E-12	0.00 [-0.07:0.08]	9.29E-01	0.06 [-0.25:0.36]	7.16E-01	0.00 [-0.06:0.06]	9.71E-01	0.02 [-0.06:0.10]
0.84 (±0.15)	5.57E-08	-0.08 [-0.16:-0.01]	3.65E-02	-0.09 [-0.40:0.22]	5.64E-01	-0.03 [-0.09:0.03]	3.24E-01	0.15 [0.07:0.23]
0.86 (±0.15)	1.05E-08	-0.06 [-0.13:0.01]	1.06E-01	-0.13 [-0.43:0.16]	3.78E-01	-0.04 [-0.10:0.02]	2.27E-01	-0.01 [-0.09:0.07]
0.19 (±0.16)	2.32E-01	-0.14 [0.08:-0.29]	7.65E-02	0.18 [0.56:-0.42]	5.57E-01	0.07 [-0.05:0.20]	2.44E-01	-0.06 [0.49:-0.22]
0.38 (±0.17)	2.43E-02	-0.02 [-0.09:0.06]	6.63E-01	-0.23 [-0.52:0.06]	1.26E-01	-0.00 [-0.06:0.06]	8.73E-01	-0.10 [-0.18:-0.02]
0.67 (±0.16)	3.14E-05	-0.00 [-0.08:0.07]	9.18E-01	-0.17 [-0.45:0.12]	2.58E-01	0.01 [-0.05:0.07]	7.33E-01	-0.09 [-0.17:-0.01]
0.71 (±0.16)	9.31E-06	0.02 [-0.05:0.10]	5.70E-01	-0.15 [-0.45:0.15]	3.29E-01	0.01 [-0.05:0.07]	7.01E-01	-0.08 [-0.16:-0.00]
0.26 (±0.16)	1.18E-01	-0.13 [0.12:-0.29]	1.24E-01	0.07 [0.83:-0.56]	8.27E-01	0.05 [-0.08:0.19]	4.42E-01	0.11 [0.27:-0.09]
0.43 (±0.17)	1.17E-02	0.00 [0.95:-0.15]	9.52E-01	0.06 [0.85:-0.55]	8.54E-01	-0.00 [-0.12:0.12]	9.92E-01	-0.37 [0.00:-0.54]
0.57 (±0.17)	7.54E-04	0.01 [-0.07:0.08]	8.58E-01	0.14 [-0.15:0.42]	3.58E-01	-0.01 [-0.07:0.05]	7.66E-01	0.03 [-0.05:0.11]
0.68 (±0.16)	2.99E-05	0.07 [-0.01:0.14]	7.89E-02	-0.04 [-0.34:0.25]	7.81E-01	-0.02 [-0.08:0.04]	4.96E-01	0.17 [0.09:0.25]
0.44 (±0.17)	1.07E-02	0.00 [0.97:-0.15]	9.75E-01	0.43 [0.15:-0.16]	1.51E-01	0.07 [-0.06:0.19]	2.90E-01	-0.26 [0.00:-0.42]
0.95 (±0.14)	1.37E-11	-0.01 [-0.08:0.07]	8.65E-01	-0.10 [-0.40:0.20]	5.01E-01	0.04 [-0.03:0.10]	2.45E-01	-0.09 [-0.17:-0.01]
0.97 (±0.14)	1.11E-12	0.01 [-0.06:0.08]	7.36E-01	0.07 [-0.21:0.35]	6.27E-01	0.07 [0.01:0.13]	2.67E-02	-0.29 [-0.36:-0.22]
0.80 (±0.17)	4.66E-06	-0.02 [-0.10:0.05]	5.42E-01	-0.29 [-0.59:0.01]	5.84E-02	-0.02 [-0.08:0.05]	6.50E-01	-0.08 [-0.17:0.01]
0.62 (±0.17)	1.89E-04	-0.07 [0.34:-0.22]	3.37E-01	0.22 [0.46:-0.36]	4.60E-01	-0.01 [-0.13:0.11]	9.15E-01	-0.33 [0.00:-0.51]
0.25 (±0.19)	1.81E-01	0.01 [-0.07:0.09]	8.62E-01	-0.08 [-0.41:0.26]	6.50E-01	0.04 [-0.03:0.11]	2.17E-01	0.15 [0.06:0.24]
0.35 (±0.17)	3.70E-02	0.10 [0.22:-0.06]	2.21E-01	0.29 [0.36:-0.33]	3.59E-01	-0.01 [-0.13:0.12]	9.21E-01	-0.34 [0.00:-0.52]
0.85 (±0.15)	8.00E-09	0.05 [0.61:-0.13]	6.15E-01	0.05 [0.89:-0.67]	8.88E-01	0.03 [-0.11:0.17]	6.82E-01	-0.36 [0.00:-0.56]
0.51 (±0.17)	2.40E-03	-0.05 [0.56:-0.21]	5.60E-01	0.01 [0.97:-0.63]	9.73E-01	-0.03 [-0.16:0.10]	6.45E-01	-0.32 [0.00:-0.50]
0.75 (±0.17)	8.26E-06	-0.03 [-0.11:0.04]	4.05E-01	0.25 [-0.05:0.55]	1.07E-01	-0.03 [-0.09:0.04]	4.24E-01	-0.05 [-0.14:0.03]
0.77 (±0.16)	7.45E-07	-0.06 [-0.13:0.01]	1.21E-01	0.06 [-0.22:0.35]	6.51E-01	-0.00 [-0.06:0.05]	8.85E-01	0.05 [-0.03:0.12]
0.53 (±0.18)	3.75E-03	0.00 [-0.07:0.08]	9.09E-01	0.10 [-0.21:0.41]	5.18E-01	-0.05 [-0.11:0.02]	1.52E-01	0.10 [0.01:0.18]
0.46 (±0.17)	7.35E-03	-0.18 [0.03:-0.35]	3.10E-02	0.02 [0.94:-0.63]	9.43E-01	0.01 [-0.13:0.15]	8.89E-01	-0.28 [0.00:-0.47]
0.49 (±0.17)	4.36E-03	0.09 [0.29:-0.08]	2.94E-01	-0.56 [0.10:-1.22]	9.74E-02	0.07 [-0.06:0.20]	3.03E-01	0.16 [0.09:-0.03]
1.00 (±0.13)	9.32E-14	-0.07 [-0.14:0.01]	7.01E-02	0.06 [-0.24:0.36]	6.96E-01	0.02 [-0.04:0.08]	5.04E-01	-0.28 [-0.35:-0.20]
0.90 (±0.15)	9.41E-10	-0.03 [-0.10:0.05]	4.92E-01	0.04 [-0.26:0.34]	7.78E-01	-0.07 [-0.13:-0.00]	3.44E-02	-0.19 [-0.27:-0.12]

0.63 (±0.16)	1.33E-04	-0.03 [0.71:-0.18]	7.09E-01	0.22 [0.46:-0.38]	4.64E-01	-0.05 [-0.17:0.07]	4.32E-01	-0.41 [0.00:-0.59]
0.71 (±0.16)	8.15E-06	-0.05 [-0.12:0.03]	2.18E-01	0.16 [-0.14:0.45]	2.92E-01	-0.01 [-0.07:0.05]	7.51E-01	-0.10 [-0.18:-0.02]
0.36 (±0.18)	4.83E-02	-0.03 [-0.11:0.05]	4.13E-01	-0.14 [-0.46:0.17]	3.71E-01	0.03 [-0.03:0.10]	3.18E-01	0.15 [0.06:0.23]
0.66 (±0.16)	5.63E-05	-0.06 [-0.13:0.01]	1.20E-01	-0.12 [-0.41:0.17]	4.25E-01	-0.00 [-0.06:0.06]	9.70E-01	-0.05 [-0.12:0.03]
0.95 (±0.14)	9.01E-12	-0.00 [-0.08:0.07]	9.52E-01	-0.09 [-0.40:0.21]	5.40E-01	-0.02 [-0.08:0.04]	5.57E-01	-0.21 [-0.29:-0.14]
0.60 (±0.17)	3.43E-04	-0.09 [0.35:-0.27]	3.54E-01	0.56 [0.10:-0.12]	1.04E-01	-0.08 [-0.23:0.06]	2.78E-01	-0.08 [0.44:-0.29]
0.80 (±0.15)	1.69E-07	-0.02 [-0.09:0.05]	5.50E-01	0.06 [-0.23:0.35]	6.90E-01	0.01 [-0.05:0.07]	7.31E-01	-0.06 [-0.14:0.02]
0.81 (±0.16)	3.19E-07	0.02 [-0.05:0.10]	5.24E-01	0.01 [-0.29:0.31]	9.42E-01	0.01 [-0.06:0.07]	8.42E-01	-0.17 [-0.25:-0.09]
0.83 (±0.15)	3.59E-08	-0.06 [-0.13:0.01]	1.15E-01	0.44 [0.14:0.73]	3.86E-03	0.06 [-0.00:0.12]	6.14E-02	-0.10 [-0.18:-0.02]
0.74 (±0.16)	2.67E-06	-0.01 [-0.08:0.06]	8.28E-01	0.03 [-0.26:0.32]	8.56E-01	0.03 [-0.03:0.10]	2.55E-01	0.12 [0.04:0.20]
1.00 (±0.13)	2.56E-14	-0.02 [-0.09:0.06]	6.62E-01	0.14 [-0.16:0.43]	3.68E-01	0.00 [-0.06:0.06]	9.84E-01	0.12 [0.04:0.20]
0.71 (±0.16)	1.02E-05	0.01 [-0.06:0.09]	7.63E-01	-0.07 [-0.37:0.23]	6.61E-01	0.03 [-0.03:0.09]	3.55E-01	-0.19 [-0.27:-0.12]
0.97 (±0.14)	9.47E-13	0.01 [-0.06:0.08]	7.83E-01	0.05 [-0.25:0.34]	7.59E-01	0.04 [-0.02:0.10]	2.42E-01	0.04 [-0.04:0.11]
1.00 (±0.13)	1.79E-15	-0.00 [-0.08:0.07]	9.27E-01	0.17 [-0.13:0.46]	2.72E-01	0.03 [-0.03:0.09]	3.08E-01	-0.03 [-0.11:0.05]
0.44 (±0.17)	1.04E-02	0.08 [0.01:0.15]	3.54E-02	-0.08 [-0.37:0.21]	5.99E-01	0.02 [-0.04:0.08]	4.19E-01	0.05 [-0.03:0.13]
0.99 (±0.13)	7.55E-14	-0.04 [-0.11:0.04]	3.39E-01	-0.00 [-0.30:0.30]	9.85E-01	0.01 [-0.05:0.07]	7.19E-01	-0.22 [-0.30:-0.15]
0.96 (±0.14)	2.44E-12	-0.02 [-0.09:0.06]	6.79E-01	0.14 [-0.15:0.43]	3.34E-01	0.03 [-0.03:0.09]	3.45E-01	-0.03 [-0.11:0.05]
0.73 (±0.16)	3.14E-06	-0.13 [0.16:-0.30]	1.59E-01	-0.45 [0.17:-1.09]	1.72E-01	-0.08 [-0.22:0.07]	2.91E-01	0.00 [0.96:-0.19]
0.46 (±0.17)	6.89E-03	-0.16 [0.04:-0.30]	3.57E-02	0.18 [0.55:-0.40]	5.46E-01	0.05 [-0.07:0.17]	4.43E-01	-0.30 [0.00:-0.47]
0.39 (±0.17)	2.32E-02	-0.04 [-0.11:0.03]	2.67E-01	-0.11 [-0.39:0.17]	4.53E-01	-0.01 [-0.07:0.05]	6.69E-01	-0.12 [-0.20:-0.04]
0.59 (±0.17)	7.32E-04	-0.07 [-0.15:-0.00]	4.35E-02	-0.03 [-0.32:0.26]	8.22E-01	0.03 [-0.03:0.09]	3.03E-01	-0.20 [-0.28:-0.12]
0.00 (±0.26)	1.00E+00	-0.05 [0.53:-0.19]	5.34E-01	0.15 [0.62:-0.43]	6.17E-01	0.13 [0.01:0.25]	2.93E-02	-0.17 [0.04:-0.33]
1.00 (±0.13)	1.53E-14	-0.05 [-0.12:0.02]	1.92E-01	0.09 [-0.21:0.39]	5.50E-01	0.01 [-0.05:0.07]	7.23E-01	-0.00 [-0.08:0.07]
1.00 (±0.13)	5.30E-15	-0.05 [-0.13:0.02]	1.49E-01	0.00 [-0.29:0.30]	9.82E-01	0.04 [-0.02:0.10]	1.71E-01	-0.23 [-0.30:-0.15]
0.86 (±0.15)	6.64E-09	0.01 [-0.07:0.09]	7.77E-01	0.04 [-0.26:0.35]	7.87E-01	-0.04 [-0.10:0.03]	2.62E-01	0.11 [0.04:0.19]
0.59 (±0.17)	6.42E-04	0.01 [-0.07:0.08]	8.47E-01	0.05 [-0.24:0.34]	7.36E-01	0.03 [-0.03:0.09]	3.75E-01	0.18 [0.10:0.26]
0.35 (±0.20)	7.82E-02	-0.02 [-0.10:0.06]	6.70E-01	0.12 [-0.21:0.44]	4.78E-01	0.02 [-0.05:0.10]	4.94E-01	0.05 [-0.03:0.14]
0.49 (±0.17)	3.67E-03	-0.16 [0.03:-0.31]	2.89E-02	0.91 [0.01:0.27]	5.54E-03	-0.05 [-0.17:0.07]	4.62E-01	-0.22 [0.01:-0.39]
0.74 (±0.16)	3.33E-06	0.03 [-0.04:0.11]	4.24E-01	0.00 [-0.30:0.31]	9.79E-01	0.01 [-0.06:0.07]	8.42E-01	0.09 [0.01:0.17]
0.85 (±0.15)	8.84E-09	0.02 [-0.05:0.10]	5.23E-01	0.04 [-0.26:0.34]	7.92E-01	-0.01 [-0.08:0.05]	6.57E-01	0.12 [0.04:0.20]
0.91 (±0.14)	1.62E-10	0.01 [-0.07:0.08]	8.96E-01	0.06 [-0.25:0.37]	6.91E-01	0.03 [-0.03:0.09]	2.95E-01	0.02 [-0.06:0.09]
0.78 (±0.16)	5.26E-07	0.04 [-0.04:0.11]	3.64E-01	0.08 [-0.23:0.39]	6.23E-01	0.01 [-0.05:0.07]	7.25E-01	0.06 [-0.02:0.14]
0.64 (±0.18)	4.63E-04	0.02 [-0.06:0.10]	6.40E-01	-0.03 [-0.35:0.28]	8.49E-01	0.01 [-0.05:0.08]	6.74E-01	0.08 [-0.00:0.17]
0.36 (±0.17)	3.64E-02	0.14 [0.13:-0.04]	1.29E-01	-0.24 [0.50:-0.92]	4.95E-01	-0.11 [-0.26:0.03]	1.21E-01	0.48 [0.00:0.27]
0.57 (±0.17)	7.40E-04	-0.05 [0.65:-0.24]	6.53E-01	-0.10 [0.81:-0.90]	8.08E-01	0.08 [-0.07:0.23]	2.77E-01	0.02 [0.84:-0.19]
0.78 (±0.15)	3.54E-07	-0.08 [-0.15:-0.00]	4.83E-02	-0.11 [-0.42:0.19]	4.76E-01	0.07 [0.01:0.13]	2.33E-02	-0.28 [-0.35:-0.20]
0.66 (±0.16)	4.44E-05	-0.06 [-0.13:0.02]	1.29E-01	0.02 [-0.28:0.31]	8.98E-01	0.03 [-0.03:0.09]	2.75E-01	-0.27 [-0.34:-0.19]
0.96 (±0.14)	1.61E-12	-0.09 [-0.16:-0.01]	2.48E-02	-0.09 [-0.40:0.21]	5.53E-01	0.04 [-0.02:0.10]	2.26E-01	-0.31 [-0.39:-0.24]
0.31 (±0.17)	6.64E-02	-0.06 [0.50:-0.24]	5.05E-01	-0.50 [0.22:-1.30]	2.25E-01	0.01 [-0.13:0.15]	8.95E-01	-0.07 [0.48:-0.26]
0.71 (±0.16)	8.84E-06	-0.02 [-0.09:0.05]	6.14E-01	-0.23 [-0.52:0.06]	1.28E-01	-0.03 [-0.09:0.03]	3.89E-01	-0.15 [-0.23:-0.08]
0.32 (±0.17)	5.91E-02	-0.03 [-0.10:0.04]	4.20E-01	-0.40 [-0.68:-0.12]	5.26E-03	-0.06 [-0.12:0.00]	5.20E-02	-0.11 [-0.19:-0.03]
0.45 (±0.18)	1.40E-02	-0.01 [-0.09:0.06]	7.26E-01	-0.38 [-0.68:-0.08]	1.33E-02	-0.02 [-0.08:0.04]	4.74E-01	-0.16 [-0.24:-0.08]
0.64 (±0.17)	1.29E-04	-0.03 [-0.10:0.05]	4.93E-01	-0.26 [-0.55:0.03]	7.36E-02	-0.02 [-0.08:0.04]	4.30E-01	-0.20 [-0.28:-0.12]
0.00 (±0.01)	1.00E+00	0.10 [0.23:-0.06]	2.34E-01	0.13 [0.70:-0.52]	7.04E-01	0.04 [-0.08:0.17]	5.23E-01	0.02 [0.79:-0.15]
0.29 (±0.17)	8.39E-02	-0.10 [0.16:-0.25]	1.62E-01	-0.16 [0.58:-0.74]	5.82E-01	-0.02 [-0.14:0.10]	7.11E-01	0.00 [0.99:-0.16]
0.60 (±0.17)	3.64E-04	-0.03 [-0.10:0.04]	4.18E-01	-0.43 [-0.72:-0.13]	4.86E-03	-0.05 [-0.11:0.01]	1.34E-01	-0.05 [-0.13:0.03]
0.66 (±0.17)	7.22E-05	-0.04 [-0.12:0.03]	2.41E-01	-0.32 [-0.62:-0.03]	3.00E-02	-0.03 [-0.10:0.03]	2.70E-01	-0.15 [-0.23:-0.07]

0.42 (±0.17)	1.66E-02	-0.02 [-0.10:0.05]	5.09E-01	-0.44 [-0.73:-0.15]	2.99E-03	-0.02 [-0.08:0.04]	4.18E-01	-0.04 [-0.12:0.04]
0.44 (±0.17)	9.04E-03	0.15 [0.07:-0.01]	6.70E-02	-0.18 [0.57:-0.79]	5.66E-01	-0.05 [-0.19:0.08]	4.26E-01	-0.41 [0.00:-0.61]
0.48 (±0.18)	6.72E-03	-0.01 [-0.09:0.06]	7.09E-01	-0.17 [-0.46:0.13]	2.68E-01	-0.02 [-0.08:0.04]	5.47E-01	-0.15 [-0.23:-0.07]
0.58 (±0.19)	2.31E-03	-0.03 [-0.10:0.05]	5.24E-01	-0.31 [-0.64:0.01]	6.07E-02	-0.05 [-0.11:0.02]	1.44E-01	-0.19 [-0.28:-0.11]
0.39 (±0.17)	2.43E-02	0.01 [-0.07:0.08]	8.85E-01	-0.48 [-0.77:-0.20]	9.58E-04	-0.02 [-0.08:0.04]	5.43E-01	-0.07 [-0.15:0.01]
0.67 (±0.16)	3.45E-05	-0.00 [-0.07:0.07]	9.30E-01	-0.27 [-0.56:0.02]	6.73E-02	-0.04 [-0.10:0.02]	1.90E-01	-0.08 [-0.15:0.00]
0.63 (±0.17)	1.28E-04	-0.01 [-0.08:0.06]	8.10E-01	-0.26 [-0.55:0.02]	7.15E-02	-0.03 [-0.09:0.03]	3.39E-01	-0.14 [-0.22:-0.06]
0.64 (±0.17)	1.07E-04	-0.04 [-0.12:0.03]	2.41E-01	-0.17 [-0.47:0.13]	2.62E-01	0.12 [0.06:0.18]	1.41E-04	-0.07 [-0.15:0.01]
0.54 (±0.17)	1.24E-03	0.08 [0.34:-0.09]	3.36E-01	-0.04 [0.91:-0.71]	9.07E-01	0.03 [-0.10:0.16]	6.35E-01	-0.27 [0.01:-0.47]
0.50 (±0.19)	8.73E-03	-0.02 [-0.10:0.06]	6.02E-01	-0.17 [-0.47:0.14]	2.90E-01	0.00 [-0.06:0.07]	9.26E-01	0.09 [0.00:0.18]
0.00 (±0.00)	1.00E+00	0.18 [0.03:0.02]	2.90E-02	-0.57 [0.11:-1.28]	1.11E-01	0.02 [-0.11:0.15]	7.63E-01	-0.03 [0.77:-0.20]
0.85 (±0.16)	4.24E-08	-0.10 [-0.18:-0.02]	1.23E-02	0.09 [-0.21:0.40]	5.57E-01	0.04 [-0.02:0.11]	2.21E-01	-0.17 [-0.25:-0.10]
0.78 (±0.15)	3.41E-07	-0.14 [0.10:-0.31]	1.03E-01	-0.52 [0.17:-1.27]	1.72E-01	0.11 [-0.03:0.24]	1.18E-01	-1.07 [0.00:-1.30]
0.16 (±0.16)	3.30E-01	-0.01 [0.92:-0.16]	9.18E-01	-0.29 [0.33:-0.87]	3.32E-01	-0.04 [-0.17:0.08]	4.88E-01	0.22 [0.01:0.05]
0.78 (±0.17)	5.32E-06	-0.01 [-0.09:0.06]	7.03E-01	0.19 [-0.13:0.51]	2.51E-01	-0.00 [-0.07:0.06]	9.55E-01	-0.03 [-0.11:0.05]
0.70 (±0.16)	1.13E-05	0.05 [0.56:-0.12]	5.56E-01	-0.07 [0.84:-0.75]	8.40E-01	-0.17 [-0.31:-0.04]	1.16E-02	-0.10 [0.28:-0.29]
0.87 (±0.15)	1.99E-09	-0.06 [0.44:-0.21]	4.44E-01	-0.24 [0.46:-0.86]	4.58E-01	0.12 [-0.01:0.24]	6.63E-02	-0.97 [0.00:-1.20]
0.61 (±0.17)	2.19E-04	-0.07 [0.39:-0.24]	3.93E-01	-0.78 [0.01:-1.36]	9.50E-03	0.08 [-0.06:0.21]	2.85E-01	0.17 [0.06:-0.01]
0.97 (±0.15)	1.23E-10	0.02 [-0.05:0.10]	5.47E-01	0.02 [-0.30:0.33]	9.18E-01	0.03 [-0.04:0.09]	4.34E-01	0.21 [0.12:0.30]
0.90 (±0.15)	8.02E-10	-0.04 [-0.12:0.03]	2.55E-01	-0.06 [-0.37:0.24]	6.84E-01	0.01 [-0.05:0.07]	7.90E-01	-0.25 [-0.33:-0.18]
0.65 (±0.17)	9.88E-05	0.01 [-0.06:0.09]	7.75E-01	-0.04 [-0.35:0.27]	7.91E-01	0.08 [0.01:0.14]	1.59E-02	0.10 [0.02:0.19]
0.27 (±0.16)	1.06E-01	0.09 [0.30:-0.08]	3.00E-01	0.35 [0.34:-0.37]	3.42E-01	0.02 [-0.12:0.16]	7.72E-01	-0.04 [0.66:-0.23]
0.87 (±0.15)	3.19E-09	-0.03 [0.72:-0.20]	7.22E-01	-0.43 [0.24:-1.14]	2.39E-01	0.01 [-0.12:0.14]	8.42E-01	-0.73 [0.00:-0.94]
0.41 (±0.17)	1.60E-02	-0.07 [0.38:-0.23]	3.78E-01	0.71 [0.05:-0.01]	5.26E-02	0.08 [-0.05:0.20]	2.43E-01	-0.19 [0.04:-0.37]
0.85 (±0.15)	7.78E-09	-0.11 [0.23:-0.29]	2.26E-01	-0.79 [0.07:-1.64]	7.17E-02	0.21 [0.07:0.35]	3.96E-03	-0.80 [0.00:-1.04]
1.00 (±0.12)	1.20E-15	-0.02 [-0.10:0.06]	5.83E-01	0.19 [-0.12:0.50]	2.27E-01	0.09 [0.02:0.15]	9.86E-03	-0.42 [-0.49:-0.34]
0.58 (±0.17)	5.48E-04	0.06 [0.45:-0.09]	4.49E-01	0.57 [0.08:-0.06]	7.61E-02	-0.04 [-0.16:0.08]	5.47E-01	-0.34 [0.00:-0.52]
0.20 (±0.16)	2.05E-01	-0.04 [0.63:-0.20]	6.33E-01	-0.01 [0.97:-0.66]	9.67E-01	0.02 [-0.11:0.15]	7.51E-01	0.17 [0.07:-0.01]
0.33 (±0.27)	2.23E-01	-0.07 [-0.14:0.01]	6.99E-02	-0.04 [-0.35:0.26]	7.82E-01	-0.06 [-0.12:0.00]	6.44E-02	-0.34 [-0.42:-0.27]
0.74 (±0.17)	1.85E-05	-0.06 [-0.14:0.02]	1.32E-01	0.11 [-0.20:0.42]	4.88E-01	0.10 [0.04:0.17]	2.14E-03	-0.32 [-0.40:-0.24]
0.38 (±0.17)	2.39E-02	-0.16 [0.06:-0.32]	6.23E-02	-0.65 [0.10:-1.42]	1.02E-01	-0.07 [-0.21:0.06]	3.04E-01	-0.24 [0.01:-0.42]
0.60 (±0.19)	1.66E-03	0.01 [-0.06:0.09]	7.43E-01	-0.29 [-0.60:0.02]	6.97E-02	0.10 [0.03:0.16]	3.34E-03	-0.18 [-0.26:-0.10]
0.68 (±0.16)	2.82E-05	-0.07 [-0.15:-0.00]	4.94E-02	0.13 [-0.16:0.43]	3.76E-01	0.00 [-0.06:0.06]	9.47E-01	-0.18 [-0.26:-0.10]
0.30 (±0.17)	7.60E-02	0.02 [0.80:-0.15]	7.97E-01	0.78 [0.08:-0.09]	7.80E-02	-0.05 [-0.19:0.09]	4.98E-01	-0.23 [0.03:-0.43]
0.48 (±0.17)	4.81E-03	-0.03 [-0.11:0.04]	3.89E-01	0.07 [-0.23:0.37]	6.45E-01	0.01 [-0.05:0.07]	7.34E-01	-0.18 [-0.25:-0.10]
0.49 (±0.19)	1.08E-02	0.01 [-0.07:0.08]	8.86E-01	0.11 [-0.19:0.40]	4.85E-01	-0.03 [-0.10:0.03]	3.21E-01	-0.08 [-0.17:0.00]
0.24 (±0.16)	1.43E-01	-0.15 [0.06:-0.31]	5.99E-02	0.23 [0.47:-0.40]	4.73E-01	0.01 [-0.11:0.13]	8.65E-01	-0.19 [0.03:-0.36]
0.72 (±0.16)	7.13E-06	-0.05 [-0.12:0.03]	2.27E-01	-0.21 [-0.50:0.08]	1.57E-01	-0.02 [-0.08:0.05]	6.26E-01	-0.17 [-0.24:-0.09]
0.98 (±0.13)	3.04E-13	-0.07 [-0.14:0.01]	8.46E-02	0.05 [-0.26:0.35]	7.65E-01	0.05 [-0.02:0.11]	1.39E-01	-0.18 [-0.26:-0.11]
0.61 (±0.20)	1.97E-03	0.02 [-0.06:0.10]	6.05E-01	-0.22 [-0.56:0.11]	1.91E-01	-0.02 [-0.09:0.05]	5.70E-01	-0.19 [-0.28:-0.10]
0.73 (±0.16)	3.92E-06	0.04 [-0.03:0.11]	2.72E-01	0.11 [-0.18:0.39]	4.55E-01	-0.02 [-0.08:0.04]	4.79E-01	-0.01 [-0.08:0.07]
0.63 (±0.16)	1.20E-04	0.06 [-0.01:0.13]	7.43E-02	0.24 [-0.04:0.52]	9.65E-02	-0.03 [-0.09:0.03]	3.06E-01	-0.13 [-0.20:-0.05]
0.57 (±0.18)	1.12E-03	-0.06 [-0.13:0.01]	1.08E-01	0.03 [-0.26:0.33]	8.15E-01	-0.00 [-0.06:0.06]	9.92E-01	-0.01 [-0.09:0.08]
0.67 (±0.16)	4.58E-05	0.03 [-0.04:0.10]	3.60E-01	0.23 [-0.05:0.52]	1.10E-01	-0.00 [-0.06:0.06]	8.87E-01	-0.12 [-0.20:-0.04]
0.72 (±0.16)	8.75E-06	-0.02 [-0.10:0.05]	5.16E-01	-0.17 [-0.46:0.13]	2.74E-01	-0.05 [-0.11:0.01]	1.07E-01	-0.03 [-0.10:0.05]
0.60 (±0.17)	4.34E-04	-0.05 [-0.13:0.02]	1.81E-01	-0.13 [-0.44:0.19]	4.32E-01	-0.03 [-0.09:0.04]	4.27E-01	-0.03 [-0.11:0.05]
0.43 (±0.17)	1.08E-02	-0.05 [0.58:-0.23]	5.77E-01	-0.22 [0.55:-0.93]	5.55E-01	-0.08 [-0.22:0.05]	2.38E-01	0.20 [0.06:-0.00]
0.46 (±0.17)	9.05E-03	0.01 [-0.06:0.09]	7.31E-01	-0.15 [-0.44:0.15]	3.28E-01	-0.05 [-0.11:0.01]	8.38E-02	-0.02 [-0.10:0.06]
0.95 (±0.16)	7.94E-10	-0.02 [-0.10:0.06]	6.29E-01	-0.11 [-0.44:0.21]	4.96E-01	0.02 [-0.05:0.09]	5.92E-01	-0.33 [-0.41:-0.25]
1.00 (±0.12)	5.42E-16	-0.09 [-0.17:-0.02]	1.47E-02	0.15 [-0.16:0.46]	3.40E-01	0.05 [-0.01:0.11]	1.18E-01	-0.26 [-0.33:-0.18]

0.56 (±0.17)	1.08E-03	-0.02 [-0.09:0.06]	6.83E-01	-0.15 [-0.45:0.15]	3.23E-01	0.05 [-0.01:0.11]	1.05E-01	0.22 [0.14:0.30]
0.09 (±0.13)	5.05E-01	-0.02 [0.76:-0.18]	7.59E-01	-0.21 [0.51:-0.84]	5.06E-01	-0.06 [-0.19:0.06]	3.24E-01	-0.12 [0.21:-0.30]
0.66 (±0.17)	9.74E-05	-0.07 [-0.14:0.01]	8.00E-02	-0.05 [-0.36:0.25]	7.26E-01	-0.06 [-0.12:0.00]	5.27E-02	-0.36 [-0.43:-0.28]
0.45 (±0.19)	1.62E-02	-0.03 [-0.10:0.05]	5.09E-01	-0.22 [-0.51:0.08]	1.53E-01	0.02 [-0.05:0.08]	6.42E-01	-0.06 [-0.15:0.03]
0.14 (±0.15)	3.32E-01	-0.03 [0.72:-0.18]	7.24E-01	-0.98 [0.01:-1.70]	7.76E-03	-0.10 [-0.23:0.02]	1.01E-01	-0.01 [0.93:-0.17]
0.23 (±0.16)	1.60E-01	0.00 [0.96:-0.15]	9.62E-01	-0.27 [0.38:-0.87]	3.75E-01	-0.04 [-0.16:0.08]	5.03E-01	0.15 [0.08:-0.02]
0.58 (±0.17)	5.40E-04	-0.02 [-0.09:0.05]	5.84E-01	0.11 [-0.18:0.40]	4.45E-01	0.02 [-0.04:0.08]	4.72E-01	0.15 [0.07:0.23]
0.40 (±0.17)	1.91E-02	0.07 [0.39:-0.09]	3.87E-01	0.19 [0.58:-0.47]	5.79E-01	-0.06 [-0.18:0.07]	4.03E-01	-0.02 [0.85:-0.20]
0.41 (±0.17)	1.57E-02	-0.04 [0.62:-0.20]	6.21E-01	-0.24 [0.45:-0.87]	4.51E-01	0.01 [-0.11:0.13]	8.67E-01	-0.13 [0.15:-0.30]
0.75 (±0.17)	9.33E-06	-0.09 [-0.16:-0.01]	2.20E-02	0.14 [-0.15:0.44]	3.37E-01	0.05 [-0.01:0.12]	1.10E-01	-0.31 [-0.39:-0.23]
0.70 (±0.16)	1.40E-05	0.06 [0.48:-0.10]	4.80E-01	-0.00 [0.99:-0.62]	9.89E-01	0.08 [-0.04:0.20]	2.10E-01	0.01 [0.91:-0.16]
0.98 (±0.14)	1.02E-12	-0.03 [-0.11:0.04]	3.69E-01	0.09 [-0.20:0.39]	5.29E-01	0.03 [-0.03:0.09]	3.48E-01	-0.19 [-0.27:-0.11]
0.64 (±0.17)	1.26E-04	-0.05 [-0.13:0.02]	1.84E-01	-0.09 [-0.39:0.21]	5.40E-01	-0.00 [-0.07:0.06]	9.20E-01	-0.02 [-0.10:0.06]
0.65 (±0.17)	1.95E-04	-0.05 [-0.13:0.02]	1.83E-01	0.03 [-0.27:0.34]	8.27E-01	-0.05 [-0.11:0.02]	1.43E-01	-0.04 [-0.13:0.04]
0.55 (±0.17)	1.20E-03	0.01 [-0.06:0.09]	7.47E-01	0.18 [-0.13:0.49]	2.43E-01	0.04 [-0.02:0.10]	2.11E-01	0.24 [0.16:0.32]
0.37 (±0.18)	3.55E-02	0.01 [-0.06:0.08]	8.15E-01	-0.36 [-0.65:-0.07]	1.57E-02	-0.05 [-0.11:0.01]	1.22E-01	-0.05 [-0.13:0.03]
0.44 (±0.19)	1.89E-02	-0.06 [-0.13:0.02]	1.33E-01	-0.06 [-0.38:0.25]	6.88E-01	-0.06 [-0.12:0.01]	9.61E-02	-0.12 [-0.20:-0.03]
0.59 (±0.17)	3.73E-04	-0.02 [0.83:-0.16]	8.29E-01	-0.31 [0.32:-0.91]	3.21E-01	0.09 [-0.03:0.21]	1.63E-01	-0.82 [0.00:-1.01]
0.41 (±0.17)	1.63E-02	0.08 [0.30:-0.07]	3.03E-01	0.15 [0.62:-0.46]	6.23E-01	0.13 [0.01:0.25]	3.64E-02	-0.45 [0.00:-0.64]
0.67 (±0.16)	4.96E-05	0.01 [-0.07:0.08]	8.54E-01	-0.13 [-0.42:0.16]	3.78E-01	0.00 [-0.06:0.06]	9.84E-01	0.08 [-0.00:0.16]
0.73 (±0.16)	5.81E-06	-0.03 [-0.10:0.05]	5.05E-01	0.33 [0.02:0.64]	3.96E-02	-0.05 [-0.11:0.02]	1.46E-01	-0.03 [-0.11:0.05]
0.85 (±0.15)	3.06E-08	-0.10 [-0.18:-0.03]	7.34E-03	0.21 [-0.09:0.51]	1.78E-01	0.14 [0.08:0.21]	1.19E-05	-0.17 [-0.25:-0.09]
0.80 (±0.17)	2.75E-06	0.01 [-0.06:0.09]	7.47E-01	0.20 [-0.09:0.49]	1.73E-01	0.01 [-0.05:0.08]	6.81E-01	-0.25 [-0.33:-0.17]
0.78 (±0.18)	2.03E-05	0.04 [-0.04:0.12]	3.07E-01	0.26 [-0.03:0.56]	8.19E-02	-0.04 [-0.10:0.03]	2.78E-01	0.03 [-0.06:0.12]
0.31 (±0.17)	6.22E-02	0.08 [0.35:-0.08]	3.47E-01	0.32 [0.31:-0.30]	3.09E-01	-0.03 [-0.16:0.10]	6.85E-01	-0.26 [0.00:-0.44]
0.61 (±0.17)	2.24E-04	0.15 [0.07:-0.01]	6.53E-02	0.50 [0.13:-0.15]	1.30E-01	0.04 [-0.08:0.17]	4.86E-01	-0.19 [0.02:-0.36]
0.68 (±0.16)	2.42E-05	-0.01 [-0.08:0.06]	7.85E-01	-0.01 [-0.30:0.28]	9.40E-01	-0.04 [-0.10:0.02]	1.83E-01	0.17 [0.09:0.25]
0.66 (±0.16)	4.68E-05	-0.03 [0.67:-0.19]	6.67E-01	-0.30 [0.35:-0.93]	3.50E-01	0.10 [-0.02:0.23]	1.03E-01	-0.90 [0.00:-1.12]
0.31 (±0.18)	7.50E-02	0.08 [0.01:0.16]	2.23E-02	-0.24 [-0.54:0.06]	1.13E-01	-0.01 [-0.08:0.05]	6.57E-01	0.06 [-0.02:0.14]
0.91 (±0.15)	6.04E-10	0.07 [-0.00:0.14]	6.64E-02	0.43 [0.13:0.73]	4.63E-03	-0.00 [-0.06:0.06]	9.53E-01	0.08 [0.00:0.17]
0.59 (±0.17)	5.15E-04	-0.03 [-0.11:0.04]	3.59E-01	0.43 [0.14:0.73]	4.42E-03	-0.05 [-0.11:0.01]	9.38E-02	0.11 [0.03:0.19]
0.53 (±0.17)	1.80E-03	-0.02 [-0.09:0.06]	6.58E-01	0.00 [-0.29:0.29]	9.99E-01	0.03 [-0.03:0.09]	2.78E-01	-0.07 [-0.15:0.00]
0.50 (±0.17)	3.30E-03	-0.07 [0.45:-0.26]	4.53E-01	0.15 [0.71:-0.64]	7.08E-01	0.04 [-0.11:0.18]	6.16E-01	0.10 [0.34:-0.11]
0.59 (±0.17)	6.41E-04	-0.06 [-0.14:0.01]	9.94E-02	-0.02 [-0.32:0.27]	8.77E-01	0.02 [-0.05:0.08]	5.83E-01	-0.04 [-0.13:0.04]
0.59 (±0.19)	1.64E-03	-0.04 [-0.12:0.04]	2.88E-01	0.14 [-0.17:0.46]	3.69E-01	0.00 [-0.06:0.07]	9.32E-01	-0.10 [-0.18:-0.01]
0.69 (±0.18)	1.14E-04	-0.04 [-0.12:0.03]	2.67E-01	0.31 [0.00:0.62]	4.93E-02	0.00 [-0.06:0.07]	8.87E-01	-0.17 [-0.26:-0.09]
0.54 (±0.17)	1.53E-03	-0.04 [-0.11:0.04]	3.22E-01	-0.11 [-0.40:0.18]	4.62E-01	-0.05 [-0.11:0.01]	1.12E-01	-0.12 [-0.20:-0.04]
0.66 (±0.17)	7.23E-05	-0.03 [-0.10:0.05]	4.63E-01	-0.13 [-0.43:0.16]	3.79E-01	-0.04 [-0.10:0.02]	2.27E-01	0.04 [-0.04:0.12]
0.65 (±0.18)	3.84E-04	-0.07 [-0.15:0.00]	6.61E-02	-0.10 [-0.41:0.20]	5.08E-01	-0.03 [-0.10:0.03]	2.91E-01	-0.10 [-0.19:-0.01]
0.00 (±0.06)	1.00E+00	0.11 [0.15:-0.04]	1.53E-01	-0.37 [0.20:-0.95]	2.04E-01	-0.03 [-0.16:0.09]	6.10E-01	0.09 [0.29:-0.08]
0.02 (±0.10)	8.59E-01	0.03 [0.72:-0.12]	7.20E-01	-0.70 [0.02:-1.27]	1.56E-02	-0.06 [-0.19:0.06]	2.97E-01	-0.12 [0.17:-0.29]
0.45 (±0.20)	2.38E-02	-0.02 [-0.10:0.06]	6.46E-01	-0.59 [-0.91:-0.26]	3.97E-04	-0.05 [-0.12:0.01]	1.17E-01	-0.02 [-0.11:0.07]
0.32 (±0.17)	5.88E-02	-0.13 [0.08:-0.28]	8.26E-02	-0.23 [0.45:-0.82]	4.54E-01	0.04 [-0.08:0.16]	5.34E-01	0.05 [0.55:-0.12]
0.62 (±0.16)	1.74E-04	0.09 [0.23:-0.06]	2.29E-01	-0.60 [0.05:-1.20]	4.97E-02	0.03 [-0.09:0.15]	6.13E-01	-0.58 [0.00:-0.76]
0.30 (±0.17)	7.55E-02	0.17 [0.03:0.02]	3.06E-02	0.16 [0.62:-0.47]	6.17E-01	0.06 [-0.07:0.19]	3.76E-01	0.02 [0.84:-0.15]
0.73 (±0.16)	4.01E-06	-0.08 [0.31:-0.23]	3.13E-01	-0.53 [0.09:-1.15]	9.13E-02	0.04 [-0.08:0.16]	5.38E-01	-0.86 [0.00:-1.08]
0.41 (±0.17)	1.58E-02	-0.06 [-0.14:0.01]	9.75E-02	0.47 [0.17:0.77]	2.13E-03	-0.05 [-0.11:0.01]	1.14E-01	0.12 [0.04:0.20]
NA (±NA)		-0.01 [0.93:-0.20]	9.29E-01	-0.53 [0.14:-1.22]	1.37E-01	0.08 [-0.07:0.23]	2.78E-01	0.09 [0.38:-0.12]
0.02 (±0.10)	8.39E-01	-0.01 [0.94:-0.17]	9.41E-01	-0.53 [0.10:-1.17]	9.75E-02	0.04 [-0.09:0.17]	5.75E-01	0.04 [0.65:-0.14]
0.48 (±0.17)	5.04E-03	-0.18 [0.09:-0.39]	9.19E-02	-0.25 [0.54:-1.07]	5.44E-01	0.03 [-0.12:0.18]	6.99E-01	-0.57 [0.00:-0.85]

0.68 (±0.16)	2.28E-05	-0.21 [0.01:-0.37]	1.42E-02	-0.05 [0.88:-0.70]	8.85E-01	0.03 [-0.10:0.15]	6.87E-01	-0.33 [0.00:-0.52]
0.87 (±0.16)	4.27E-08	-0.04 [-0.11:0.03]	2.89E-01	0.18 [-0.13:0.49]	2.57E-01	-0.02 [-0.08:0.05]	5.69E-01	-0.23 [-0.31:-0.15]
0.57 (±0.17)	7.15E-04	0.01 [0.93:-0.14]	9.35E-01	0.37 [0.22:-0.22]	2.19E-01	-0.08 [-0.20:0.04]	1.72E-01	-0.05 [0.54:-0.21]
0.74 (±0.16)	4.78E-06	-0.05 [-0.13:0.02]	1.72E-01	-0.01 [-0.31:0.30]	9.72E-01	-0.03 [-0.09:0.03]	3.53E-01	-0.03 [-0.11:0.05]
0.60 (±0.18)	6.76E-04	-0.03 [-0.10:0.05]	4.81E-01	-0.12 [-0.42:0.19]	4.62E-01	0.01 [-0.05:0.07]	7.62E-01	-0.17 [-0.26:-0.09]
0.67 (±0.16)	4.86E-05	-0.05 [-0.13:0.02]	1.60E-01	-0.12 [-0.42:0.18]	4.24E-01	-0.02 [-0.09:0.04]	4.52E-01	-0.05 [-0.13:0.02]
0.57 (±0.17)	8.50E-04	-0.07 [-0.14:0.01]	8.07E-02	-0.03 [-0.32:0.27]	8.57E-01	-0.04 [-0.11:0.02]	1.71E-01	-0.02 [-0.10:0.06]
0.59 (±0.17)	6.66E-04	-0.01 [-0.09:0.06]	7.03E-01	0.01 [-0.30:0.31]	9.70E-01	-0.05 [-0.11:0.02]	1.63E-01	-0.03 [-0.11:0.06]
0.75 (±0.16)	1.92E-06	-0.14 [0.08:-0.30]	8.09E-02	0.12 [0.70:-0.50]	7.01E-01	0.08 [-0.04:0.20]	2.01E-01	-0.74 [0.00:-0.95]
0.66 (±0.16)	5.10E-05	-0.02 [0.84:-0.21]	8.40E-01	-0.24 [0.51:-0.96]	5.09E-01	-0.03 [-0.17:0.12]	7.07E-01	-0.46 [0.00:-0.69]
0.09 (±0.13)	4.98E-01	-0.11 [0.21:-0.27]	2.08E-01	0.20 [0.53:-0.43]	5.35E-01	0.16 [0.02:0.30]	2.42E-02	0.01 [0.96:-0.19]
0.65 (±0.16)	8.38E-05	-0.20 [0.01:-0.35]	9.20E-03	-0.09 [0.76:-0.68]	7.61E-01	0.12 [0.00:0.24]	4.24E-02	-0.96 [0.00:-1.17]
0.47 (±0.17)	6.28E-03	0.11 [0.27:-0.08]	2.70E-01	0.67 [0.07:-0.05]	6.75E-02	-0.09 [-0.23:0.05]	2.16E-01	0.36 [0.00:0.14]
0.82 (±0.16)	2.77E-07	-0.01 [-0.08:0.07]	8.73E-01	0.27 [-0.03:0.58]	8.04E-02	0.08 [0.02:0.15]	7.80E-03	-0.31 [-0.38:-0.23]
0.83 (±0.15)	2.23E-08	-0.20 [0.02:-0.36]	1.76E-02	-0.35 [0.31:-1.03]	3.05E-01	0.12 [-0.01:0.24]	7.78E-02	-1.00 [0.00:-1.21]
0.33 (±0.17)	5.34E-02	0.06 [-0.01:0.13]	1.14E-01	-0.09 [-0.38:0.20]	5.55E-01	0.01 [-0.05:0.07]	7.88E-01	0.11 [0.04:0.19]
0.80 (±0.15)	2.51E-07	0.04 [-0.03:0.12]	2.46E-01	0.27 [-0.03:0.57]	7.83E-02	0.05 [-0.01:0.11]	9.66E-02	-0.15 [-0.23:-0.07]
0.47 (±0.17)	6.14E-03	-0.04 [0.63:-0.21]	6.29E-01	0.25 [0.45:-0.40]	4.50E-01	0.07 [-0.06:0.20]	2.59E-01	-0.65 [0.00:-0.87]
0.16 (±0.15)	2.98E-01	-0.03 [-0.10:0.04]	4.12E-01	0.36 [0.07:0.65]	1.39E-02	0.12 [0.06:0.18]	1.30E-04	0.06 [-0.01:0.14]
0.48 (±0.17)	5.31E-03	-0.17 [0.03:-0.32]	2.73E-02	-0.45 [0.15:-1.05]	1.45E-01	-0.00 [-0.12:0.12]	9.53E-01	-0.55 [0.00:-0.74]
0.81 (±0.16)	2.45E-07	-0.03 [-0.10:0.05]	4.81E-01	-0.03 [-0.33:0.28]	8.63E-01	-0.04 [-0.10:0.03]	2.47E-01	-0.10 [-0.18:-0.02]
0.29 (±0.17)	8.31E-02	-0.06 [0.45:-0.20]	4.51E-01	-0.01 [0.97:-0.60]	9.73E-01	-0.02 [-0.14:0.11]	8.01E-01	0.07 [0.37:-0.09]
1.00 (±0.13)	1.83E-15	-0.03 [-0.11:0.05]	4.36E-01	-0.08 [-0.41:0.25]	6.45E-01	0.02 [-0.04:0.09]	4.59E-01	-0.36 [-0.43:-0.28]
0.58 (±0.17)	4.76E-04	-0.03 [0.71:-0.17]	7.08E-01	-0.14 [0.62:-0.72]	6.22E-01	0.05 [-0.07:0.17]	4.26E-01	-0.10 [0.21:-0.27]
0.21 (±0.18)	2.29E-01	-0.04 [-0.11:0.04]	3.21E-01	0.22 [-0.09:0.52]	1.65E-01	-0.01 [-0.07:0.06]	7.78E-01	0.20 [0.11:0.28]
0.66 (±0.16)	4.61E-05	-0.11 [0.14:-0.26]	1.43E-01	-0.57 [0.06:-1.18]	6.41E-02	0.15 [0.03:0.27]	1.53E-02	-0.53 [0.00:-0.72]
0.37 (±0.17)	2.75E-02	-0.09 [0.29:-0.26]	2.91E-01	-0.42 [0.22:-1.08]	2.17E-01	0.16 [0.03:0.29]	1.68E-02	-0.56 [0.00:-0.77]
0.66 (±0.16)	4.29E-05	0.05 [0.55:-0.11]	5.49E-01	-0.35 [0.28:-0.98]	2.80E-01	0.08 [-0.04:0.20]	2.09E-01	-0.71 [0.00:-0.89]
0.74 (±0.16)	2.37E-06	-0.05 [0.53:-0.22]	5.26E-01	-0.65 [0.10:-1.43]	9.66E-02	0.19 [0.06:0.33]	4.60E-03	-1.17 [0.00:-1.40]
0.70 (±0.17)	2.83E-05	0.02 [-0.05:0.10]	5.64E-01	-0.13 [-0.43:0.17]	3.87E-01	0.03 [-0.03:0.09]	3.77E-01	-0.09 [-0.17:-0.01]
0.38 (±0.17)	2.67E-02	-0.08 [0.32:-0.23]	3.18E-01	-0.58 [0.06:-1.18]	5.79E-02	0.01 [-0.12:0.14]	8.99E-01	-0.21 [0.02:-0.40]
0.36 (±0.18)	4.53E-02	0.00 [-0.07:0.08]	9.85E-01	0.01 [-0.30:0.31]	9.70E-01	0.03 [-0.03:0.09]	2.97E-01	-0.27 [-0.35:-0.19]
0.29 (±0.17)	8.40E-02	-0.06 [0.43:-0.22]	4.31E-01	-0.13 [0.67:-0.74]	6.65E-01	-0.04 [-0.17:0.09]	5.78E-01	-0.01 [0.93:-0.18]
0.36 (±0.17)	3.62E-02	0.17 [0.03:0.02]	3.09E-02	-0.03 [0.91:-0.64]	9.14E-01	0.01 [-0.11:0.13]	8.51E-01	-0.11 [0.21:-0.28]
0.57 (±0.17)	8.69E-04	-0.05 [-0.12:0.03]	1.96E-01	-0.09 [-0.39:0.21]	5.54E-01	-0.05 [-0.11:0.02]	1.39E-01	-0.16 [-0.24:-0.09]
0.40 (±0.17)	2.06E-02	0.06 [-0.01:0.14]	9.34E-02	-0.16 [-0.46:0.14]	2.92E-01	-0.02 [-0.08:0.05]	6.15E-01	0.07 [-0.01:0.15]
0.43 (±0.17)	1.22E-02	-0.00 [-0.08:0.07]	9.14E-01	0.29 [-0.00:0.58]	5.41E-02	0.03 [-0.03:0.09]	3.02E-01	0.21 [0.13:0.29]
0.50 (±0.17)	3.05E-03	0.07 [0.49:-0.12]	4.90E-01	-0.12 [0.76:-0.88]	7.59E-01	0.01 [-0.13:0.15]	8.49E-01	-0.34 [0.00:-0.54]
0.43 (±0.17)	1.09E-02	-0.08 [0.33:-0.26]	3.30E-01	-0.49 [0.22:-1.26]	2.17E-01	0.05 [-0.09:0.19]	5.21E-01	-0.72 [0.00:-0.92]
0.67 (±0.18)	2.78E-04	-0.09 [-0.17:-0.01]	2.67E-02	0.44 [0.11:0.76]	8.26E-03	-0.01 [-0.08:0.06]	7.82E-01	0.16 [0.07:0.24]
0.25 (±0.16)	1.31E-01	-0.18 [0.05:-0.35]	4.51E-02	0.18 [0.60:-0.48]	5.98E-01	-0.01 [-0.15:0.12]	8.42E-01	-0.31 [0.00:-0.49]
0.42 (±0.17)	1.40E-02	0.22 [0.02:0.04]	1.90E-02	-0.18 [0.62:-0.88]	6.20E-01	0.04 [-0.10:0.18]	5.61E-01	0.28 [0.00:0.10]
0.49 (±0.17)	4.56E-03	0.03 [-0.04:0.10]	4.61E-01	0.26 [-0.03:0.56]	7.61E-02	-0.01 [-0.07:0.05]	6.66E-01	0.21 [0.13:0.29]
0.51 (±0.18)	3.30E-03	-0.07 [-0.15:0.00]	5.65E-02	0.12 [-0.19:0.43]	4.44E-01	0.00 [-0.06:0.07]	9.71E-01	0.06 [-0.01:0.14]
0.76 (±0.16)	3.31E-06	-0.02 [-0.10:0.05]	5.91E-01	-0.17 [-0.49:0.15]	2.93E-01	-0.07 [-0.13:-0.01]	3.22E-02	-0.05 [-0.13:0.03]
0.66 (±0.16)	5.32E-05	-0.02 [-0.10:0.05]	5.12E-01	-0.09 [-0.38:0.20]	5.53E-01	0.08 [0.01:0.14]	1.51E-02	-0.16 [-0.24:-0.08]
0.46 (±0.17)	7.00E-03	0.19 [0.01:0.05]	1.01E-02	-0.23 [0.44:-0.79]	4.37E-01	0.08 [-0.04:0.20]	1.78E-01	-0.52 [0.00:-0.70]
0.35 (±0.18)	4.67E-02	-0.06 [-0.13:0.01]	1.08E-01	-0.10 [-0.39:0.20]	5.20E-01	0.07 [0.01:0.14]	1.87E-02	-0.01 [-0.09:0.07]
0.85 (±0.15)	1.13E-08	-0.07 [-0.14:0.01]	8.83E-02	0.11 [-0.19:0.41]	4.84E-01	0.06 [0.00:0.13]	4.39E-02	-0.03 [-0.11:0.05]
0.44 (±0.17)	9.58E-03	-0.05 [-0.13:0.02]	1.78E-01	0.15 [-0.16:0.46]	3.38E-01	-0.06 [-0.12:0.01]	8.72E-02	0.16 [0.09:0.24]

0.51 (±0.18)	5.62E-03	-0.07 [-0.14:0.01]	8.76E-02	0.15 [-0.15:0.45]	3.40E-01	0.01 [-0.06:0.07]	8.23E-01	-0.05 [-0.13:0.03]
0.46 (±0.19)	1.44E-02	-0.06 [-0.14:0.01]	1.05E-01	0.15 [-0.16:0.45]	3.56E-01	-0.01 [-0.08:0.05]	6.78E-01	-0.22 [-0.31:-0.14]
0.84 (±0.15)	2.18E-08	-0.06 [-0.13:0.01]	1.17E-01	-0.20 [-0.48:0.09]	1.72E-01	0.13 [0.08:0.19]	7.14E-06	-0.31 [-0.39:-0.24]
1.00 (±0.13)	8.43E-15	0.11 [0.03:0.18]	3.93E-03	0.24 [-0.05:0.53]	9.86E-02	-0.03 [-0.09:0.03]	3.54E-01	0.13 [0.05:0.20]
0.50 (±0.18)	5.65E-03	0.01 [-0.07:0.08]	8.62E-01	-0.04 [-0.35:0.27]	8.05E-01	0.04 [-0.02:0.11]	1.74E-01	-0.10 [-0.18:-0.01]
0.81 (±0.15)	1.03E-07	-0.07 [-0.15:-0.00]	4.34E-02	-0.00 [-0.30:0.29]	9.74E-01	0.09 [0.03:0.15]	2.52E-03	-0.41 [-0.48:-0.33]
0.87 (±0.15)	2.80E-09	-0.02 [-0.10:0.05]	5.41E-01	-0.22 [-0.52:0.08]	1.54E-01	-0.02 [-0.09:0.04]	4.51E-01	-0.21 [-0.28:-0.13]
0.26 (±0.16)	1.07E-01	-0.14 [0.06:-0.28]	6.13E-02	0.12 [0.69:-0.46]	6.92E-01	0.01 [-0.10:0.13]	8.25E-01	-0.07 [0.37:-0.23]
1.00 (±0.08)	1.76E-33	-0.07 [0.43:-0.25]	4.35E-01	-0.09 [0.81:-0.80]	8.05E-01	0.17 [0.03:0.31]	1.40E-02	-0.69 [0.00:-0.93]
0.81 (±0.15)	9.36E-08	-0.04 [-0.12:0.03]	2.44E-01	0.03 [-0.27:0.33]	8.65E-01	0.02 [-0.04:0.08]	5.67E-01	-0.17 [-0.25:-0.10]
0.76 (±0.16)	8.48E-07	0.07 [0.35:-0.08]	3.52E-01	0.42 [0.17:-0.17]	1.66E-01	0.06 [-0.07:0.19]	3.78E-01	-0.17 [0.06:-0.34]
0.12 (±0.14)	4.01E-01	-0.07 [0.34:-0.22]	3.42E-01	0.61 [0.07:-0.04]	6.72E-02	0.17 [0.04:0.29]	8.15E-03	-0.11 [0.21:-0.29]
0.54 (±0.17)	1.30E-03	-0.05 [0.54:-0.21]	5.37E-01	-0.07 [0.82:-0.73]	8.25E-01	0.05 [-0.08:0.17]	4.41E-01	-0.55 [0.00:-0.74]
0.87 (±0.15)	1.33E-08	-0.09 [-0.16:-0.01]	2.88E-02	-0.02 [-0.33:0.29]	8.90E-01	0.08 [0.01:0.14]	1.74E-02	-0.33 [-0.41:-0.26]
0.37 (±0.20)	5.78E-02	0.08 [-0.00:0.15]	5.89E-02	0.14 [-0.17:0.44]	3.71E-01	-0.01 [-0.08:0.06]	7.39E-01	-0.03 [-0.12:0.05]
0.73 (±0.16)	5.61E-06	-0.07 [-0.14:0.01]	7.29E-02	0.21 [-0.09:0.51]	1.63E-01	0.04 [-0.02:0.10]	2.25E-01	-0.26 [-0.33:-0.18]
1.00 (±0.12)	2.27E-16	-0.05 [-0.13:0.02]	1.50E-01	0.23 [-0.07:0.53]	1.25E-01	0.05 [-0.02:0.11]	1.52E-01	-0.31 [-0.39:-0.24]
0.73 (±0.16)	4.16E-06	0.08 [0.01:0.15]	3.46E-02	0.10 [-0.20:0.39]	5.11E-01	-0.02 [-0.09:0.04]	4.36E-01	0.26 [0.18:0.33]
0.17 (±0.15)	2.58E-01	-0.03 [0.74:-0.21]	7.35E-01	-0.41 [0.24:-1.09]	2.43E-01	0.01 [-0.13:0.15]	8.96E-01	0.32 [0.00:0.12]
0.80 (±0.15)	1.79E-07	-0.02 [-0.09:0.06]	6.64E-01	-0.13 [-0.43:0.17]	4.02E-01	0.04 [-0.02:0.10]	1.73E-01	0.22 [0.14:0.30]
0.38 (±0.17)	2.43E-02	-0.02 [0.75:-0.18]	7.53E-01	0.56 [0.10:-0.12]	1.04E-01	0.19 [0.07:0.32]	2.38E-03	-0.29 [0.00:-0.47]
0.69 (±0.16)	1.80E-05	-0.06 [-0.13:0.01]	8.07E-02	-0.11 [-0.40:0.17]	4.37E-01	0.02 [-0.04:0.08]	4.20E-01	-0.18 [-0.26:-0.10]
0.52 (±0.17)	2.00E-03	-0.10 [0.23:-0.25]	2.30E-01	-0.53 [0.08:-1.11]	7.50E-02	-0.11 [-0.24:0.02]	9.19E-02	0.48 [0.00:0.31]
0.26 (±0.16)	1.14E-01	0.10 [0.02:0.17]	9.20E-03	-0.38 [-0.67:-0.09]	9.72E-03	0.01 [-0.05:0.08]	6.41E-01	0.03 [-0.05:0.11]
0.89 (±0.15)	3.40E-09	-0.04 [-0.12:0.04]	2.91E-01	0.12 [-0.18:0.42]	4.44E-01	0.03 [-0.03:0.09]	3.76E-01	0.16 [0.08:0.24]
0.00 (±0.01)	1.00E+00	0.10 [0.30:-0.08]	2.96E-01	-0.42 [0.23:-1.09]	2.28E-01	0.21 [0.06:0.35]	4.52E-03	0.15 [0.15:-0.05]
0.17 (±0.19)	3.58E-01	-0.03 [-0.11:0.05]	4.50E-01	-0.07 [-0.39:0.24]	6.51E-01	0.02 [-0.05:0.08]	5.69E-01	-0.17 [-0.25:-0.08]
0.07 (±0.13)	5.75E-01	-0.01 [-0.08:0.06]	7.84E-01	0.18 [-0.11:0.47]	2.30E-01	0.03 [-0.03:0.09]	3.47E-01	-0.01 [-0.09:0.07]
0.38 (±0.19)	4.02E-02	-0.01 [-0.09:0.06]	7.16E-01	0.15 [-0.17:0.47]	3.65E-01	0.04 [-0.03:0.10]	2.88E-01	-0.04 [-0.12:0.04]
0.83 (±0.15)	2.79E-08	0.03 [-0.04:0.11]	4.12E-01	-0.08 [-0.38:0.22]	5.85E-01	0.03 [-0.03:0.09]	3.31E-01	-0.09 [-0.17:-0.01]
0.19 (±0.16)	2.14E-01	0.01 [-0.06:0.09]	7.14E-01	0.04 [-0.26:0.35]	7.70E-01	-0.06 [-0.12:0.00]	6.29E-02	0.04 [-0.04:0.11]
0.01 (±0.12)	9.19E-01	0.02 [-0.07:0.10]	6.95E-01	-0.08 [-0.43:0.26]	6.35E-01	0.00 [-0.07:0.07]	9.55E-01	0.05 [-0.03:0.14]
0.04 (±0.13)	7.46E-01	0.01 [-0.07:0.09]	7.82E-01	-0.02 [-0.34:0.29]	8.81E-01	-0.03 [-0.10:0.03]	3.42E-01	0.03 [-0.05:0.12]
0.45 (±0.17)	8.26E-03	-0.10 [0.18:-0.25]	1.80E-01	-0.27 [0.36:-0.85]	3.61E-01	0.07 [-0.05:0.19]	2.54E-01	-0.14 [0.10:-0.31]
0.35 (±0.17)	3.74E-02	0.08 [0.38:-0.09]	3.76E-01	0.24 [0.50:-0.46]	4.99E-01	-0.02 [-0.15:0.12]	8.07E-01	-0.43 [0.00:-0.64]
0.85 (±0.15)	8.37E-09	-0.03 [-0.10:0.04]	4.38E-01	0.24 [-0.05:0.54]	1.09E-01	0.03 [-0.03:0.09]	3.34E-01	-0.01 [-0.09:0.06]
0.78 (±0.18)	1.24E-05	-0.06 [-0.15:0.02]	1.28E-01	-0.07 [-0.39:0.24]	6.60E-01	0.03 [-0.04:0.10]	4.28E-01	-0.31 [-0.39:-0.22]
0.00 (±0.03)	1.00E+00	0.02 [0.79:-0.14]	7.94E-01	0.12 [0.71:-0.53]	7.13E-01	-0.05 [-0.18:0.09]	4.85E-01	-0.06 [0.53:-0.24]
0.73 (±0.16)	3.25E-06	0.04 [-0.03:0.11]	2.70E-01	0.33 [0.03:0.62]	2.95E-02	-0.05 [-0.11:0.01]	1.34E-01	0.27 [0.20:0.35]
0.41 (±0.17)	1.57E-02	-0.06 [0.49:-0.22]	4.91E-01	-0.39 [0.24:-1.03]	2.39E-01	-0.04 [-0.17:0.09]	5.24E-01	-0.39 [0.00:-0.58]
0.67 (±0.16)	3.22E-05	-0.10 [0.23:-0.26]	2.31E-01	0.02 [0.94:-0.63]	9.44E-01	0.14 [0.01:0.26]	3.57E-02	-0.59 [0.00:-0.81]
0.79 (±0.16)	6.71E-07	-0.12 [-0.19:-0.04]	2.87E-03	-0.14 [-0.45:0.17]	3.78E-01	0.06 [-0.00:0.12]	6.35E-02	-0.09 [-0.17:-0.02]
0.83 (±0.15)	5.62E-08	-0.05 [-0.13:0.02]	1.32E-01	-0.02 [-0.30:0.26]	8.89E-01	0.05 [-0.01:0.11]	9.66E-02	-0.24 [-0.32:-0.16]
0.37 (±0.17)	2.74E-02	-0.07 [0.40:-0.22]	4.00E-01	-0.38 [0.23:-1.00]	2.30E-01	0.06 [-0.06:0.18]	3.51E-01	-0.04 [0.63:-0.21]
1.00 (±0.14)	4.51E-12	-0.02 [-0.10:0.06]	6.38E-01	0.19 [-0.14:0.52]	2.53E-01	0.04 [-0.03:0.11]	2.45E-01	-0.38 [-0.46:-0.30]
0.57 (±0.17)	7.41E-04	-0.04 [-0.11:0.03]	2.95E-01	0.02 [-0.26:0.31]	8.87E-01	-0.03 [-0.09:0.03]	3.04E-01	-0.07 [-0.15:0.01]
0.42 (±0.17)	1.33E-02	-0.15 [0.10:-0.32]	9.93E-02	-0.16 [0.66:-0.88]	6.55E-01	0.06 [-0.08:0.19]	4.32E-01	-0.24 [0.02:-0.44]
0.64 (±0.16)	9.36E-05	0.09 [0.31:-0.09]	3.14E-01	0.01 [0.99:-0.70]	9.87E-01	-0.12 [-0.26:0.01]	7.72E-02	0.54 [0.00:0.33]
0.88 (±0.15)	1.43E-09	0.03 [-0.05:0.10]	4.64E-01	0.21 [-0.08:0.50]	1.50E-01	0.04 [-0.02:0.10]	2.11E-01	-0.10 [-0.18:-0.02]
0.53 (±0.17)	1.52E-03	-0.16 [0.04:-0.30]	4.08E-02	0.05 [0.86:-0.54]	8.60E-01	0.02 [-0.10:0.14]	7.01E-01	-0.67 [0.00:-0.87]

0.58 (±0.17)	8.21E-04	0.02 [-0.05:0.09]	5.74E-01	0.23 [-0.07:0.53]	1.27E-01	0.08 [0.02:0.14]	7.54E-03	-0.36 [-0.44:-0.29]
1.00 (±0.13)	3.60E-15	-0.06 [-0.14:0.01]	9.46E-02	0.04 [-0.26:0.34]	7.94E-01	0.04 [-0.02:0.10]	1.92E-01	-0.33 [-0.41:-0.25]
0.58 (±0.17)	9.00E-04	0.05 [-0.02:0.13]	1.46E-01	-0.10 [-0.40:0.20]	5.27E-01	-0.02 [-0.09:0.04]	4.38E-01	0.03 [-0.05:0.11]
0.55 (±0.17)	1.10E-03	-0.01 [-0.08:0.07]	8.46E-01	-0.03 [-0.32:0.27]	8.60E-01	-0.01 [-0.07:0.05]	7.71E-01	-0.02 [-0.10:0.06]
0.90 (±0.14)	2.25E-10	-0.21 [0.01:-0.37]	1.01E-02	-0.31 [0.36:-0.97]	3.57E-01	0.14 [0.02:0.27]	2.46E-02	-0.95 [0.00:-1.18]
0.36 (±0.17)	3.39E-02	0.04 [0.61:-0.11]	6.14E-01	0.09 [0.78:-0.52]	7.79E-01	-0.06 [-0.18:0.07]	3.89E-01	-0.07 [0.43:-0.25]
0.00 (±0.01)	1.00E+00	-0.02 [0.75:-0.17]	7.48E-01	-0.20 [0.50:-0.80]	5.03E-01	0.01 [-0.11:0.13]	8.72E-01	-0.03 [0.76:-0.19]
0.26 (±0.17)	1.30E-01	0.04 [-0.03:0.12]	2.73E-01	-0.34 [-0.64:-0.03]	3.10E-02	-0.01 [-0.08:0.05]	6.91E-01	0.11 [0.03:0.19]
0.74 (±0.16)	2.56E-06	-0.02 [0.79:-0.20]	7.93E-01	-0.50 [0.23:-1.31]	2.27E-01	0.17 [0.02:0.31]	2.35E-02	-1.04 [0.00:-1.32]
1.00 (±0.13)	2.57E-15	-0.06 [-0.13:0.02]	1.29E-01	0.07 [-0.24:0.38]	6.65E-01	0.03 [-0.03:0.10]	2.92E-01	-0.24 [-0.32:-0.16]
0.00 (±0.04)	1.00E+00	0.12 [0.17:-0.05]	1.67E-01	-0.09 [0.77:-0.73]	7.73E-01	0.06 [-0.08:0.19]	4.12E-01	-0.04 [0.64:-0.23]
0.49 (±0.17)	4.70E-03	0.07 [-0.00:0.15]	5.29E-02	0.18 [-0.11:0.48]	2.24E-01	0.03 [-0.04:0.09]	4.03E-01	-0.09 [-0.17:-0.02]
1.00 (±0.13)	6.81E-15	-0.05 [-0.12:0.03]	2.25E-01	0.08 [-0.23:0.39]	6.12E-01	0.05 [-0.02:0.11]	1.46E-01	-0.35 [-0.42:-0.27]
0.59 (±0.17)	3.58E-04	-0.20 [0.03:-0.37]	3.14E-02	0.43 [0.19:-0.22]	1.93E-01	0.10 [-0.04:0.24]	1.61E-01	-0.60 [0.00:-0.79]
0.68 (±0.16)	2.79E-05	-0.01 [-0.08:0.06]	7.81E-01	-0.00 [-0.29:0.28]	9.85E-01	-0.02 [-0.08:0.04]	4.99E-01	0.10 [0.02:0.18]
0.53 (±0.19)	4.55E-03	-0.00 [-0.08:0.08]	9.97E-01	0.30 [0.01:0.59]	4.05E-02	0.03 [-0.03:0.09]	3.74E-01	-0.20 [-0.28:-0.12]
0.00 (±0.00)	1.00E+00	-0.09 [0.25:-0.25]	2.48E-01	-0.26 [0.44:-0.91]	4.39E-01	0.05 [-0.08:0.18]	4.45E-01	-0.03 [0.76:-0.20]
0.66 (±0.19)	3.71E-04	-0.09 [-0.17:-0.01]	3.34E-02	-0.11 [-0.43:0.21]	4.89E-01	0.00 [-0.06:0.07]	9.31E-01	-0.24 [-0.32:-0.16]
0.46 (±0.17)	6.41E-03	-0.05 [0.48:-0.20]	4.78E-01	0.35 [0.25:-0.25]	2.52E-01	0.06 [-0.06:0.18]	3.35E-01	0.18 [0.04:0.01]
0.26 (±0.16)	1.17E-01	-0.09 [0.22:-0.24]	2.23E-01	0.61 [0.04:0.03]	3.91E-02	-0.11 [-0.23:0.01]	8.31E-02	-0.26 [0.00:-0.42]
0.00 (±0.02)	1.00E+00	-0.09 [0.22:-0.23]	2.24E-01	0.67 [0.04:0.04]	3.84E-02	-0.03 [-0.15:0.09]	6.38E-01	-0.07 [0.39:-0.24]
0.64 (±0.18)	2.91E-04	-0.04 [-0.12:0.04]	3.60E-01	-0.13 [-0.45:0.18]	4.04E-01	-0.00 [-0.07:0.06]	9.41E-01	-0.27 [-0.35:-0.19]
0.15 (±0.15)	3.18E-01	0.01 [0.88:-0.15]	8.79E-01	0.35 [0.35:-0.38]	3.47E-01	0.12 [-0.02:0.25]	1.03E-01	-0.21 [0.03:-0.41]
0.79 (±0.16)	3.09E-07	-0.01 [-0.09:0.06]	7.31E-01	0.08 [-0.22:0.38]	6.12E-01	0.05 [-0.01:0.11]	1.27E-01	-0.18 [-0.26:-0.10]
0.22 (±0.16)	1.62E-01	0.05 [0.51:-0.10]	5.14E-01	-0.12 [0.68:-0.71]	6.81E-01	0.12 [0.00:0.24]	4.98E-02	-0.04 [0.60:-0.21]
0.53 (±0.17)	1.77E-03	0.02 [-0.05:0.10]	5.23E-01	0.01 [-0.29:0.30]	9.49E-01	0.01 [-0.05:0.07]	7.99E-01	-0.18 [-0.26:-0.10]
0.73 (±0.16)	3.76E-06	0.03 [-0.04:0.11]	3.62E-01	0.05 [-0.24:0.35]	7.19E-01	0.03 [-0.03:0.09]	3.76E-01	0.06 [-0.02:0.14]
0.52 (±0.17)	2.26E-03	0.04 [-0.03:0.11]	2.95E-01	0.02 [-0.27:0.32]	8.89E-01	0.01 [-0.05:0.07]	7.64E-01	-0.16 [-0.24:-0.09]
0.35 (±0.17)	4.07E-02	-0.04 [0.59:-0.20]	5.86E-01	-0.27 [0.40:-0.92]	4.03E-01	-0.00 [-0.13:0.12]	9.52E-01	-0.47 [0.00:-0.66]
0.41 (±0.17)	1.56E-02	-0.03 [0.74:-0.20]	7.35E-01	0.87 [0.01:0.25]	5.87E-03	0.13 [-0.01:0.27]	7.51E-02	-0.13 [0.15:-0.32]
0.56 (±0.17)	9.92E-04	-0.09 [-0.17:-0.02]	1.35E-02	-0.31 [-0.60:-0.01]	4.11E-02	0.04 [-0.02:0.10]	2.11E-01	0.29 [0.21:0.37]
0.21 (±0.16)	1.94E-01	0.08 [0.01:0.16]	2.93E-02	-0.10 [-0.39:0.20]	5.22E-01	0.07 [0.01:0.13]	3.09E-02	0.02 [-0.06:0.09]
0.56 (±0.17)	8.63E-04	-0.07 [-0.14:0.00]	6.40E-02	0.03 [-0.27:0.33]	8.46E-01	-0.02 [-0.08:0.04]	4.71E-01	0.18 [0.11:0.26]
0.83 (±0.15)	2.41E-08	-0.03 [-0.11:0.04]	3.58E-01	-0.05 [-0.35:0.25]	7.45E-01	-0.02 [-0.08:0.04]	5.64E-01	-0.21 [-0.28:-0.13]
1.00 (±0.14)	4.51E-13	-0.03 [-0.10:0.05]	5.06E-01	-0.06 [-0.38:0.26]	7.28E-01	-0.04 [-0.11:0.03]	2.29E-01	-0.22 [-0.30:-0.14]
0.47 (±0.17)	6.14E-03	0.03 [0.70:-0.12]	7.01E-01	0.13 [0.66:-0.47]	6.63E-01	0.07 [-0.05:0.19]	2.78E-01	-0.43 [0.00:-0.60]
0.66 (±0.16)	5.04E-05	-0.08 [0.30:-0.23]	3.03E-01	-0.35 [0.28:-0.99]	2.80E-01	0.07 [-0.05:0.20]	2.60E-01	-0.65 [0.00:-0.83]
0.57 (±0.17)	7.36E-04	-0.07 [-0.14:0.00]	5.97E-02	-0.10 [-0.40:0.20]	5.28E-01	-0.02 [-0.08:0.04]	5.32E-01	0.17 [0.09:0.24]
0.52 (±0.17)	2.15E-03	-0.01 [-0.09:0.06]	6.87E-01	-0.09 [-0.38:0.20]	5.58E-01	-0.02 [-0.08:0.04]	4.81E-01	0.35 [0.27:0.42]
0.46 (±0.18)	8.99E-03	-0.04 [-0.12:0.04]	3.32E-01	-0.04 [-0.36:0.29]	8.31E-01	0.01 [-0.05:0.07]	7.52E-01	0.11 [0.03:0.20]
0.46 (±0.19)	1.71E-02	-0.05 [-0.13:0.03]	2.25E-01	-0.19 [-0.50:0.13]	2.42E-01	0.03 [-0.03:0.10]	3.34E-01	-0.12 [-0.20:-0.04]
0.69 (±0.18)	1.15E-04	0.00 [-0.08:0.08]	9.47E-01	-0.03 [-0.34:0.28]	8.46E-01	0.05 [-0.01:0.12]	1.07E-01	-0.35 [-0.43:-0.27]
0.41 (±0.17)	1.62E-02	-0.03 [0.69:-0.18]	6.87E-01	0.25 [0.42:-0.36]	4.15E-01	0.08 [-0.04:0.20]	1.98E-01	-0.22 [0.01:-0.39]
0.94 (±0.16)	3.06E-09	-0.02 [-0.10:0.06]	6.45E-01	0.14 [-0.18:0.46]	3.98E-01	-0.00 [-0.07:0.06]	9.58E-01	0.31 [0.23:0.39]
0.35 (±0.17)	3.98E-02	0.05 [0.56:-0.12]	5.63E-01	-0.41 [0.22:-1.07]	2.22E-01	-0.10 [-0.23:0.03]	1.31E-01	-0.46 [0.00:-0.68]
0.90 (±0.14)	2.73E-10	0.02 [0.79:-0.13]	7.88E-01	0.09 [0.77:-0.50]	7.71E-01	0.07 [-0.06:0.19]	2.89E-01	-0.54 [0.00:-0.72]
0.63 (±0.16)	1.17E-04	0.05 [0.48:-0.09]	4.75E-01	-0.06 [0.83:-0.64]	8.26E-01	-0.14 [-0.26:-0.02]	1.93E-02	0.68 [0.00:0.50]
0.45 (±0.18)	1.19E-02	0.03 [-0.05:0.10]	4.67E-01	-0.22 [-0.52:0.08]	1.58E-01	0.02 [-0.04:0.08]	6.12E-01	-0.09 [-0.17:-0.01]
0.66 (±0.19)	3.87E-04	-0.06 [-0.14:0.02]	1.46E-01	-0.25 [-0.56:0.07]	1.23E-01	-0.04 [-0.11:0.02]	2.11E-01	-0.04 [-0.12:0.05]

0.45 (±0.17)	7.76E-03	0.11 [0.16:-0.04]	1.63E-01	0.06 [0.85:-0.54]	8.53E-01	-0.09 [-0.21:0.04]	1.69E-01	-0.34 [0.00:-0.50]
0.41 (±0.17)	1.58E-02	-0.07 [0.42:-0.23]	4.15E-01	-0.30 [0.38:-0.98]	3.83E-01	-0.06 [-0.19:0.07]	3.75E-01	-0.02 [0.79:-0.20]
0.18 (±0.15)	2.43E-01	-0.03 [0.78:-0.24]	7.82E-01	-0.44 [0.29:-1.24]	2.87E-01	0.03 [-0.12:0.17]	7.18E-01	-0.29 [0.01:-0.53]
0.58 (±0.17)	5.29E-04	-0.09 [-0.16:-0.01]	2.04E-02	-0.11 [-0.40:0.19]	4.85E-01	0.06 [-0.00:0.12]	5.03E-02	-0.10 [-0.18:-0.02]
0.60 (±0.18)	5.98E-04	-0.02 [-0.09:0.06]	6.80E-01	0.21 [-0.10:0.52]	1.82E-01	0.01 [-0.05:0.07]	7.86E-01	0.17 [0.09:0.25]
0.81 (±0.15)	1.63E-07	-0.04 [-0.11:0.04]	3.15E-01	-0.05 [-0.35:0.24]	7.24E-01	0.04 [-0.02:0.10]	1.59E-01	-0.22 [-0.30:-0.15]
0.68 (±0.16)	2.29E-05	0.05 [-0.02:0.12]	1.87E-01	0.13 [-0.16:0.43]	3.75E-01	-0.05 [-0.11:0.01]	1.38E-01	0.25 [0.17:0.33]
0.76 (±0.16)	1.13E-06	0.01 [-0.06:0.08]	7.70E-01	0.19 [-0.09:0.47]	1.88E-01	0.06 [0.00:0.12]	4.90E-02	-0.12 [-0.20:-0.04]
0.25 (±0.16)	1.22E-01	-0.04 [0.56:-0.18]	5.60E-01	0.67 [0.03:0.06]	3.27E-02	0.01 [-0.10:0.13]	8.20E-01	0.16 [0.06:-0.00]
0.23 (±0.18)	2.07E-01	-0.01 [-0.09:0.07]	7.92E-01	-0.11 [-0.44:0.22]	5.03E-01	-0.01 [-0.08:0.05]	6.85E-01	0.03 [-0.05:0.12]
0.18 (±0.15)	2.47E-01	0.14 [0.08:-0.02]	8.04E-02	0.42 [0.22:-0.25]	2.22E-01	-0.06 [-0.19:0.07]	3.68E-01	0.13 [0.14:-0.04]
0.52 (±0.18)	3.81E-03	-0.01 [-0.08:0.07]	8.82E-01	-0.13 [-0.43:0.18]	4.20E-01	0.05 [-0.02:0.11]	1.57E-01	-0.26 [-0.34:-0.18]
0.70 (±0.16)	1.35E-05	0.01 [0.90:-0.14]	8.98E-01	0.35 [0.27:-0.27]	2.73E-01	-0.03 [-0.15:0.10]	6.78E-01	0.22 [0.01:0.05]
0.61 (±0.17)	2.13E-04	0.03 [0.68:-0.13]	6.85E-01	0.36 [0.28:-0.29]	2.77E-01	0.03 [-0.09:0.16]	6.32E-01	-0.06 [0.49:-0.23]
0.67 (±0.16)	3.16E-05	0.04 [-0.04:0.11]	3.13E-01	0.22 [-0.08:0.51]	1.49E-01	0.00 [-0.06:0.06]	9.12E-01	0.20 [0.12:0.27]
0.03 (±0.11)	8.03E-01	0.17 [0.10:-0.04]	1.03E-01	0.45 [0.27:-0.35]	2.74E-01	-0.04 [-0.18:0.11]	6.00E-01	0.06 [0.59:-0.17]
0.23 (±0.16)	1.45E-01	-0.11 [0.18:-0.28]	1.76E-01	-1.05 [0.01:-1.89]	1.49E-02	-0.00 [-0.14:0.13]	9.60E-01	-0.21 [0.03:-0.39]
0.62 (±0.16)	1.62E-04	0.00 [0.98:-0.15]	9.82E-01	0.22 [0.48:-0.39]	4.77E-01	-0.03 [-0.15:0.09]	6.22E-01	-0.74 [0.00:-0.95]
0.42 (±0.17)	1.34E-02	0.16 [0.08:-0.02]	8.37E-02	-0.81 [0.06:-1.65]	6.14E-02	0.20 [0.06:0.33]	4.26E-03	-0.20 [0.06:-0.40]
0.12 (±0.14)	4.02E-01	0.11 [0.21:-0.06]	2.06E-01	-0.00 [0.99:-0.66]	9.90E-01	0.01 [-0.11:0.14]	8.21E-01	-0.22 [0.02:-0.41]
0.39 (±0.17)	2.34E-02	0.01 [-0.06:0.09]	7.38E-01	-0.02 [-0.33:0.30]	9.24E-01	-0.05 [-0.11:0.01]	1.21E-01	0.16 [0.08:0.23]
0.75 (±0.16)	1.43E-06	0.05 [0.62:-0.13]	6.20E-01	0.22 [0.56:-0.52]	5.60E-01	-0.08 [-0.21:0.05]	2.49E-01	-0.35 [0.00:-0.55]
0.54 (±0.17)	1.28E-03	-0.04 [-0.11:0.03]	2.82E-01	0.02 [-0.26:0.31]	8.90E-01	0.02 [-0.04:0.08]	5.93E-01	-0.00 [-0.08:0.07]
0.74 (±0.16)	2.91E-06	-0.04 [0.55:-0.19]	5.52E-01	-0.10 [0.72:-0.67]	7.25E-01	0.06 [-0.06:0.18]	3.24E-01	-0.55 [0.00:-0.74]
0.51 (±0.17)	2.70E-03	-0.14 [0.07:-0.28]	6.67E-02	-0.06 [0.85:-0.63]	8.50E-01	-0.04 [-0.16:0.08]	4.88E-01	-0.25 [0.00:-0.43]
0.71 (±0.17)	2.96E-05	-0.08 [-0.16:-0.00]	3.72E-02	0.13 [-0.17:0.42]	3.96E-01	0.00 [-0.06:0.07]	8.76E-01	0.12 [0.03:0.20]
0.95 (±0.14)	3.04E-12	0.07 [-0.00:0.14]	6.28E-02	-0.08 [-0.38:0.22]	5.88E-01	-0.04 [-0.11:0.02]	1.56E-01	0.21 [0.13:0.28]
0.87 (±0.15)	6.89E-09	0.04 [-0.03:0.12]	2.54E-01	-0.05 [-0.35:0.26]	7.67E-01	0.04 [-0.02:0.10]	2.43E-01	-0.18 [-0.26:-0.10]
0.61 (±0.17)	2.47E-04	0.01 [0.91:-0.21]	9.15E-01	-0.73 [0.09:-1.56]	8.69E-02	-0.17 [-0.31:-0.02]	2.93E-02	-0.32 [0.01:-0.57]
0.03 (±0.11)	7.69E-01	-0.16 [0.05:-0.33]	5.44E-02	-0.77 [0.05:-1.53]	4.77E-02	0.14 [0.01:0.28]	3.09E-02	-0.16 [0.10:-0.34]
0.46 (±0.17)	7.34E-03	-0.03 [0.77:-0.19]	7.67E-01	0.10 [0.76:-0.56]	7.57E-01	-0.01 [-0.15:0.13]	8.80E-01	-0.35 [0.00:-0.53]
0.22 (±0.16)	1.63E-01	-0.07 [0.38:-0.24]	3.79E-01	-0.14 [0.69:-0.80]	6.91E-01	-0.11 [-0.25:0.02]	1.01E-01	0.10 [0.31:-0.09]
0.60 (±0.17)	4.40E-04	-0.01 [-0.08:0.07]	8.38E-01	0.02 [-0.28:0.32]	8.86E-01	-0.03 [-0.10:0.03]	2.98E-01	-0.08 [-0.16:0.00]
0.42 (±0.04)	4.86E-31	0.02 [0.86:-0.16]	8.63E-01	-0.28 [0.42:-0.96]	4.18E-01	0.04 [-0.09:0.17]	5.17E-01	0.29 [0.00:0.10]
0.47 (±0.17)	6.21E-03	-0.03 [-0.11:0.04]	3.70E-01	-0.19 [-0.49:0.11]	2.20E-01	-0.09 [-0.16:-0.03]	2.50E-03	0.21 [0.13:0.29]
0.65 (±0.18)	2.07E-04	-0.06 [-0.13:0.02]	1.49E-01	0.26 [-0.05:0.57]	1.00E-01	0.03 [-0.04:0.09]	3.96E-01	-0.18 [-0.26:-0.10]
0.14 (±0.15)	3.29E-01	-0.13 [0.12:-0.29]	1.17E-01	0.23 [0.47:-0.39]	4.69E-01	-0.02 [-0.15:0.11]	7.98E-01	-0.05 [0.55:-0.23]
0.00 (±0.10)	1.00E+00	0.00 [-0.07:0.08]	9.74E-01	0.01 [-0.28:0.31]	9.35E-01	-0.02 [-0.09:0.04]	5.04E-01	-0.08 [-0.16:0.01]
0.46 (±0.20)	2.23E-02	0.04 [-0.04:0.12]	3.15E-01	0.04 [-0.28:0.37]	7.97E-01	0.02 [-0.05:0.09]	5.71E-01	-0.17 [-0.26:-0.08]
0.28 (±0.17)	9.58E-02	-0.08 [-0.15:-0.01]	3.55E-02	-0.11 [-0.40:0.18]	4.52E-01	-0.09 [-0.15:-0.04]	1.65E-03	0.16 [0.08:0.24]
0.65 (±0.16)	7.05E-05	-0.08 [0.30:-0.23]	2.99E-01	-0.12 [0.68:-0.71]	6.78E-01	0.03 [-0.09:0.15]	6.45E-01	0.07 [0.44:-0.10]
0.31 (±0.17)	6.08E-02	0.08 [0.30:-0.07]	2.99E-01	-0.15 [0.63:-0.74]	6.27E-01	-0.01 [-0.13:0.11]	8.76E-01	0.24 [0.01:0.07]
0.43 (±0.17)	1.17E-02	-0.01 [0.89:-0.19]	8.87E-01	0.35 [0.35:-0.39]	3.48E-01	0.11 [-0.03:0.24]	1.23E-01	-0.00 [0.96:-0.19]
0.49 (±0.17)	3.67E-03	-0.00 [0.95:-0.15]	9.47E-01	0.38 [0.23:-0.24]	2.28E-01	-0.10 [-0.23:0.02]	1.01E-01	-0.31 [0.00:-0.49]
1.00 (±0.14)	1.13E-12	-0.03 [-0.11:0.05]	4.42E-01	0.29 [-0.01:0.60]	6.16E-02	0.04 [-0.03:0.10]	2.79E-01	-0.08 [-0.16:0.00]
0.50 (±0.18)	5.34E-03	-0.02 [-0.09:0.06]	6.87E-01	-0.10 [-0.39:0.19]	5.03E-01	0.02 [-0.05:0.08]	6.21E-01	-0.02 [-0.10:0.06]
0.57 (±0.17)	6.67E-04	0.07 [0.37:-0.08]	3.73E-01	0.61 [0.08:-0.08]	8.35E-02	-0.04 [-0.17:0.08]	4.98E-01	-0.10 [0.28:-0.28]

0.43 (±0.17)	1.19E-02	-0.02 [-0.10:0.05]	5.40E-01	-0.09 [-0.38:0.21]	5.62E-01	0.01 [-0.05:0.07]	6.93E-01	-0.07 [-0.15:0.01]
0.77 (±0.16)	1.30E-06	-0.03 [-0.10:0.05]	4.92E-01	0.17 [-0.12:0.46]	2.57E-01	0.03 [-0.03:0.09]	3.65E-01	-0.32 [-0.39:-0.24]
1.00 (±0.14)	3.35E-12	-0.04 [-0.12:0.04]	3.62E-01	0.12 [-0.20:0.45]	4.58E-01	-0.04 [-0.11:0.02]	2.03E-01	0.13 [0.05:0.21]
0.67 (±0.17)	5.07E-05	-0.01 [-0.08:0.07]	8.11E-01	-0.06 [-0.36:0.24]	6.97E-01	0.02 [-0.04:0.08]	4.84E-01	-0.03 [-0.11:0.06]
0.53 (±0.17)	1.80E-03	0.02 [0.82:-0.13]	8.25E-01	0.24 [0.42:-0.34]	4.19E-01	-0.03 [-0.15:0.09]	5.82E-01	-0.42 [0.00:-0.60]
0.67 (±0.16)	3.62E-05	-0.02 [-0.09:0.06]	6.85E-01	-0.12 [-0.41:0.17]	4.24E-01	-0.08 [-0.15:-0.02]	6.45E-03	0.24 [0.17:0.32]
0.45 (±0.17)	7.82E-03	-0.02 [0.75:-0.17]	7.47E-01	-0.62 [0.06:-1.26]	5.66E-02	-0.09 [-0.21:0.03]	1.39E-01	0.00 [0.97:-0.16]
0.76 (±0.16)	1.19E-06	-0.01 [-0.08:0.06]	7.79E-01	0.03 [-0.26:0.32]	8.53E-01	0.01 [-0.05:0.07]	8.40E-01	-0.30 [-0.37:-0.22]
0.17 (±0.15)	2.66E-01	0.19 [0.02:0.03]	1.70E-02	0.19 [0.55:-0.43]	5.49E-01	0.01 [-0.11:0.13]	8.82E-01	0.04 [0.67:-0.13]
1.00 (±0.12)	5.92E-16	-0.04 [-0.12:0.04]	3.03E-01	0.24 [-0.07:0.55]	1.27E-01	0.03 [-0.03:0.09]	3.69E-01	-0.19 [-0.27:-0.11]
0.33 (±0.18)	6.93E-02	-0.01 [-0.08:0.06]	7.85E-01	0.18 [-0.11:0.47]	2.25E-01	0.07 [0.01:0.13]	3.35E-02	-0.06 [-0.14:0.02]
0.57 (±0.17)	7.01E-04	-0.09 [0.33:-0.27]	3.31E-01	0.51 [0.23:-0.33]	2.35E-01	0.03 [-0.12:0.17]	7.29E-01	0.16 [0.10:-0.03]
0.23 (±0.16)	1.51E-01	-0.03 [0.72:-0.22]	7.25E-01	0.59 [0.18:-0.27]	1.79E-01	-0.15 [-0.29:-0.00]	4.84E-02	0.31 [0.00:0.10]
0.28 (±0.17)	8.66E-02	0.04 [0.62:-0.11]	6.19E-01	0.15 [0.62:-0.44]	6.23E-01	-0.06 [-0.18:0.06]	3.31E-01	-0.07 [0.42:-0.23]
0.41 (±0.17)	1.65E-02	-0.05 [0.56:-0.23]	5.63E-01	-0.09 [0.81:-0.83]	8.15E-01	-0.01 [-0.15:0.14]	9.37E-01	0.11 [0.27:-0.09]
0.75 (±0.16)	1.44E-06	0.00 [-0.07:0.08]	9.51E-01	0.12 [-0.18:0.42]	4.37E-01	0.01 [-0.05:0.07]	8.37E-01	0.30 [0.22:0.37]
0.64 (±0.17)	1.14E-04	0.02 [-0.06:0.09]	6.69E-01	0.13 [-0.16:0.42]	3.67E-01	0.04 [-0.02:0.10]	1.61E-01	-0.04 [-0.12:0.04]
0.41 (±0.17)	1.64E-02	0.00 [0.97:-0.16]	9.73E-01	-0.42 [0.24:-1.12]	2.36E-01	-0.06 [-0.19:0.07]	3.83E-01	0.20 [0.03:0.02]
0.48 (±0.17)	4.45E-03	-0.05 [0.58:-0.21]	5.82E-01	0.19 [0.57:-0.46]	5.73E-01	-0.05 [-0.18:0.09]	4.99E-01	-0.55 [0.00:-0.75]
0.10 (±0.13)	4.78E-01	0.11 [0.18:-0.05]	1.78E-01	-0.57 [0.07:-1.19]	7.36E-02	-0.09 [-0.22:0.03]	1.36E-01	0.05 [0.59:-0.12]
0.44 (±0.17)	9.56E-03	-0.03 [0.68:-0.17]	6.83E-01	0.55 [0.06:-0.03]	6.27E-02	-0.04 [-0.16:0.07]	4.67E-01	-0.05 [0.57:-0.20]
0.68 (±0.17)	5.70E-05	-0.10 [-0.17:-0.03]	8.88E-03	-0.22 [-0.53:0.08]	1.47E-01	-0.03 [-0.10:0.03]	2.90E-01	-0.28 [-0.36:-0.20]
0.18 (±0.15)	2.43E-01	0.00 [0.97:-0.15]	9.71E-01	-0.23 [0.45:-0.82]	4.50E-01	-0.10 [-0.22:0.03]	1.19E-01	0.11 [0.18:-0.05]
0.67 (±0.18)	1.96E-04	0.02 [-0.06:0.10]	6.20E-01	0.02 [-0.29:0.32]	9.18E-01	0.03 [-0.03:0.10]	3.03E-01	-0.22 [-0.30:-0.14]
0.51 (±0.19)	5.92E-03	0.05 [-0.02:0.13]	1.82E-01	-0.02 [-0.33:0.28]	8.82E-01	-0.08 [-0.15:-0.02]	9.98E-03	-0.07 [-0.16:0.01]
0.22 (±0.16)	1.72E-01	0.13 [0.06:0.20]	4.02E-04	-0.25 [-0.54:0.05]	9.77E-02	0.08 [0.02:0.14]	1.10E-02	0.03 [-0.05:0.11]
0.51 (±0.19)	6.35E-03	-0.00 [-0.08:0.07]	9.01E-01	0.33 [0.03:0.63]	3.15E-02	-0.01 [-0.07:0.05]	7.37E-01	0.01 [-0.08:0.10]
0.48 (±0.19)	1.08E-02	-0.06 [-0.14:0.01]	9.52E-02	0.28 [-0.03:0.58]	7.59E-02	0.01 [-0.05:0.07]	7.09E-01	-0.15 [-0.23:-0.07]
1.00 (±0.13)	3.63E-14	-0.01 [-0.08:0.07]	8.94E-01	0.17 [-0.13:0.47]	2.68E-01	0.04 [-0.02:0.10]	1.85E-01	-0.31 [-0.38:-0.23]
0.54 (±0.17)	1.49E-03	0.02 [-0.05:0.09]	6.21E-01	0.18 [-0.11:0.47]	2.15E-01	-0.01 [-0.07:0.05]	7.46E-01	-0.14 [-0.22:-0.06]
0.29 (±0.17)	7.88E-02	0.14 [0.09:-0.02]	9.35E-02	-0.39 [0.22:-1.02]	2.17E-01	0.16 [0.03:0.29]	1.88E-02	-0.09 [0.32:-0.28]
0.49 (±0.17)	3.74E-03	0.04 [0.68:-0.14]	6.80E-01	0.77 [0.08:-0.09]	8.07E-02	-0.06 [-0.20:0.08]	3.99E-01	-0.05 [0.64:-0.26]
0.00 (±0.06)	1.00E+00	0.09 [0.29:-0.07]	2.95E-01	0.08 [0.81:-0.56]	8.13E-01	-0.08 [-0.21:0.06]	2.50E-01	0.11 [0.25:-0.08]
0.82 (±0.17)	8.16E-07	-0.02 [-0.10:0.06]	6.14E-01	-0.12 [-0.43:0.20]	4.71E-01	-0.00 [-0.07:0.06]	9.28E-01	0.18 [0.08:0.28]
0.33 (±0.17)	5.24E-02	0.00 [-0.07:0.08]	9.42E-01	-0.08 [-0.36:0.21]	5.89E-01	0.03 [-0.03:0.09]	3.61E-01	-0.16 [-0.24:-0.08]
0.86 (±0.15)	4.78E-09	-0.03 [-0.11:0.04]	4.05E-01	0.08 [-0.22:0.39]	5.93E-01	0.00 [-0.06:0.07]	8.97E-01	-0.21 [-0.28:-0.13]
0.59 (±0.17)	3.80E-04	-0.05 [-0.12:0.02]	1.81E-01	0.04 [-0.26:0.34]	8.15E-01	-0.01 [-0.07:0.05]	8.28E-01	-0.02 [-0.10:0.06]
0.00 (±0.04)	1.00E+00	-0.03 [0.67:-0.18]	6.71E-01	-0.31 [0.30:-0.89]	3.03E-01	0.10 [-0.02:0.22]	9.07E-02	0.01 [0.90:-0.15]
0.97 (±0.13)	5.83E-13	-0.03 [-0.11:0.04]	3.74E-01	-0.19 [-0.49:0.10]	1.97E-01	0.07 [0.01:0.13]	1.89E-02	-0.30 [-0.38:-0.23]
0.00 (±0.05)	1.00E+00	0.08 [0.28:-0.07]	2.80E-01	-0.10 [0.74:-0.71]	7.45E-01	0.03 [-0.09:0.15]	6.34E-01	-0.05 [0.55:-0.22]
0.51 (±0.17)	2.55E-03	-0.04 [0.61:-0.18]	6.08E-01	0.52 [0.09:-0.07]	8.65E-02	-0.02 [-0.14:0.10]	6.97E-01	-0.16 [0.06:-0.33]
0.44 (±0.17)	1.02E-02	0.01 [0.92:-0.16]	9.18E-01	0.22 [0.53:-0.46]	5.34E-01	-0.12 [-0.25:0.01]	7.08E-02	0.18 [0.05:0.00]
0.57 (±0.17)	5.93E-04	-0.00 [0.95:-0.16]	9.54E-01	0.11 [0.73:-0.50]	7.34E-01	0.11 [-0.02:0.23]	8.73E-02	-0.61 [0.00:-0.81]
0.35 (±0.18)	4.81E-02	-0.04 [-0.12:0.04]	2.92E-01	-0.04 [-0.35:0.26]	7.70E-01	0.00 [-0.06:0.07]	8.85E-01	-0.09 [-0.17:-0.01]
NA (±NA)		0.03 [0.69:-0.14]	6.94E-01	-0.42 [0.27:-1.16]	2.68E-01	-0.05 [-0.18:0.09]	5.01E-01	0.02 [0.85:-0.17]
0.42 (±0.18)	2.15E-02	-0.04 [-0.12:0.03]	2.49E-01	0.13 [-0.18:0.43]	4.14E-01	0.03 [-0.03:0.10]	3.10E-01	-0.18 [-0.26:-0.10]
0.37 (±0.17)	3.08E-02	-0.06 [0.44:-0.22]	4.37E-01	-0.49 [0.10:-1.08]	1.04E-01	0.05 [-0.09:0.18]	5.06E-01	0.06 [0.53:-0.12]

iversity	Visceral Fat	
p	beta [95%CI]	p
0.7445	-1.77 [-4.27:0.73]	0.1653
2E-08	-1.10 [-3.67:1.46]	0.4001
4E-05	0.66 [-4.76:6.09]	0.8104
0.365	-3.29 [-8.06:1.48]	0.1763
0.0075	-1.36 [-4.09:1.36]	0.3277
2E-11	-0.59 [-2.99:1.80]	0.6267
0.0195	7.05 [1.54:12.56]	0.0122
0.0004	3.08 [0.54:5.62]	0.0174
0.5026	1.28 [-1.28:3.83]	0.3271
0.2472	-0.95 [-3.43:1.53]	0.4527
0.5441	3.35 [0.76:5.94]	0.0113
6E-06	4.75 [2.23:7.27]	0.0002
0.138	3.33 [-1.86:8.51]	0.2089
0.6613	0.78 [-4.00:5.56]	0.749
0.0059	1.99 [-0.55:4.53]	0.1245
3E-18	2.78 [0.34:5.21]	0.0256
0.8404	4.59 [2.16:7.03]	0.0002
1E-08	1.58 [-0.94:4.09]	0.2186
0.2598	5.15 [-0.54:10.83]	0.0759
0.047	0.94 [-1.74:3.61]	0.4931
2E-05	0.37 [-2.27:3.00]	0.7863
5E-06	6.13 [0.64:11.61]	0.0286
1E-07	2.49 [-0.21:5.18]	0.0704
0.0438	1.28 [-1.19:3.75]	0.31
0.0026	2.40 [-0.12:4.93]	0.0617
9E-16	2.84 [0.43:5.25]	0.0211
5E-05	1.00 [-1.52:3.52]	0.4363
0.0009	0.39 [-2.11:2.89]	0.7601
0.3855	2.59 [-2.30:7.47]	0.2995
7E-08	1.24 [-1.45:3.93]	0.3673
0.1164	0.16 [-2.47:2.78]	0.9071
3E-11	0.77 [-1.61:3.16]	0.5258
0.0041	0.84 [-1.80:3.48]	0.5326
0.7893	3.03 [-2.06:8.11]	0.2439
3E-09	1.08 [-1.35:3.51]	0.3843
6E-08	6.22 [1.07:11.37]	0.018
1E-06	7.50 [2.71:12.30]	0.0022
0.0248	4.75 [2.32:7.18]	0.0001
0.0066	3.70 [-1.40:8.79]	0.155
0.0382	2.71 [-2.68:8.10]	0.3248
0.006	-0.37 [-5.75:5.02]	0.8943
1E-23	2.68 [0.21:5.15]	0.0334
2E-07	5.45 [2.92:7.98]	2E-05
0.1602	4.28 [1.82:6.74]	0.0006

5E-09	5.71 [3.17:8.26]	1E-05
0.0198	4.55 [2.11:6.99]	0.0003
1E-04	2.31 [-0.39:5.01]	0.0935
0.0959	3.04 [0.33:5.76]	0.0281
3E-10	3.01 [0.50:5.51]	0.0186
0.0095	5.54 [2.99:8.10]	2E-05
0.1593	2.94 [0.42:5.46]	0.0224
6E-10	7.73 [2.53:12.92]	0.0035
0.0538	6.56 [4.05:9.08]	3E-07
0.1901	2.27 [-0.20:4.74]	0.0719
0.206	-3.34 [-8.42:1.73]	0.1967
0.1404	2.60 [0.10:5.09]	0.0417
0.0022	5.10 [2.58:7.62]	7E-05
0.8385	4.07 [1.56:6.58]	0.0015
0.6053	3.03 [0.51:5.55]	0.0183
0.3545	-0.18 [-2.59:2.23]	0.8863
4E-25	3.44 [0.97:5.91]	0.0064
0.1342	3.25 [0.76:5.74]	0.0105
4E-05	-1.44 [-7.07:4.18]	0.6153
4E-07	4.62 [-0.39:9.63]	0.0708
0.1156	3.57 [0.94:6.21]	0.0079
0.5015	0.67 [-1.82:3.17]	0.5967
0.2258	4.45 [1.87:7.02]	0.0007
0.0232	3.69 [1.24:6.13]	0.0031
0.5253	4.00 [1.56:6.43]	0.0013
0.0224	1.71 [-0.86:4.29]	0.1918
0.0019	0.59 [-1.92:3.11]	0.6434
0.0008	3.97 [1.55:6.38]	0.0013
3E-16	4.81 [2.31:7.31]	0.0002
0.1464	1.59 [-0.94:4.12]	0.2171
1E-12	4.05 [1.64:6.47]	0.001
0.9932	2.02 [-0.71:4.74]	0.1467
0.0116	1.18 [-4.05:6.41]	0.6579
0.0025	5.92 [0.33:11.51]	0.0381
6E-16	3.35 [0.86:5.83]	0.0083
0.4946	-5.20 [-10.12:-0.29]	0.0381
0.7804	-1.08 [-6.38:4.22]	0.689
0.0571	3.39 [-2.52:9.30]	0.261
5E-10	8.45 [3.69:13.20]	0.0005
2E-17	3.69 [1.27:6.11]	0.0028
2E-09	7.19 [2.29:12.09]	0.004
0.5951	0.98 [-4.33:6.29]	0.7183
0.8567	1.94 [-0.92:4.79]	0.1841
0.0479	5.11 [2.59:7.64]	7E-05
1E-09	6.08 [3.62:8.55]	1E-06
0.0163	5.99 [3.41:8.56]	5E-06
9E-17	1.70 [-0.95:4.35]	0.2078
7E-05	2.61 [0.05:5.17]	0.0456
0.172	-0.35 [-2.95:2.26]	0.7933
0.0008	3.48 [0.73:6.23]	0.013

9E-05	3.09 [-1.81:7.99]	0.2161
0.0024	-2.88 [-7.73:1.97]	0.2446
2E-06	3.51 [0.91:6.11]	0.0081
0.0018	5.10 [2.57:7.63]	8E-05
0.3508	4.12 [1.27:6.97]	0.0046
0.1479	2.62 [0.02:5.22]	0.0481
0.0585	3.48 [0.97:5.99]	0.0065
0.4281	2.18 [-2.86:7.23]	0.3963
0.0002	3.35 [0.87:5.82]	0.008
6E-10	0.72 [-1.74:3.18]	0.5653
1E-11	4.37 [-1.37:10.11]	0.136
4E-07	2.45 [-0.00:4.89]	0.0504
3E-12	5.20 [2.69:7.72]	5E-05
0.0239	-2.95 [-8.54:2.64]	0.3016
0.4181	0.59 [-1.85:3.03]	0.6353
0.0003	2.87 [-2.24:7.98]	0.2703
0.0424	-0.17 [-2.54:2.21]	0.8903
0.4454	1.21 [-1.33:3.75]	0.3509
8E-10	2.97 [0.44:5.51]	0.0217
0.0004	3.37 [0.89:5.84]	0.0077
0.5789	-0.35 [-2.85:2.16]	0.7864
0.1867	0.04 [-2.42:2.49]	0.9753
0.0012	8.62 [3.42:13.82]	0.0012
1E-05	4.10 [1.54:6.66]	0.0017
2E-05	3.94 [1.17:6.70]	0.0052
3E-06	3.00 [0.43:5.57]	0.0219
2E-07	2.87 [-2.25:7.98]	0.2716
7E-11	2.29 [-0.48:5.06]	0.1049
0.0424	-2.24 [-7.31:2.84]	0.3876
2E-10	3.52 [0.60:6.44]	0.0182
3E-27	3.36 [0.76:5.96]	0.0113
0.1048	2.92 [0.38:5.46]	0.0244
0.9766	1.22 [-1.28:3.73]	0.3376
0.0092	4.27 [1.76:6.78]	0.0009
5E-07	1.55 [-1.18:4.28]	0.2661
1E-05	3.83 [-2.04:9.70]	0.2006
0.017	7.35 [4.85:9.85]	8E-09
0.0017	4.30 [1.77:6.84]	0.0009
1E-13	4.21 [1.68:6.74]	0.0011
1E-06	2.08 [-0.44:4.61]	0.1061
0.0014	5.40 [2.87:7.93]	3E-05
0.0002	-1.44 [-6.63:3.74]	0.5851
3E-12	2.91 [-1.99:7.82]	0.2439
8E-11	3.12 [-1.70:7.95]	0.2045
8E-28	4.46 [1.89:7.02]	0.0007
1E-24	5.30 [2.86:7.73]	2E-05
0.609	2.94 [-2.99:8.87]	0.3311

0.1186	2.55 [0.06:5.05]	0.045
0.0004	1.87 [-0.63:4.37]	0.1431
0.5589	2.34 [-2.70:7.38]	0.3625
0.1144	0.60 [-2.21:3.41]	0.6753
0.0211	4.17 [1.73:6.61]	0.0008
0.0089	2.69 [0.03:5.35]	0.0477
5E-10	4.02 [1.49:6.55]	0.0019
0.0071	-2.05 [-6.98:2.88]	0.4156
1E-05	3.75 [1.22:6.28]	0.0037
0.1989	0.70 [-1.83:3.24]	0.5851
0.0195	-1.92 [-4.52:0.68]	0.1487
0.004	2.25 [-0.24:4.74]	0.0763
2E-07	4.57 [2.04:7.09]	0.0004
4E-09	4.98 [2.50:7.46]	8E-05
7E-12	5.57 [3.09:8.05]	1E-05
0.0205	2.51 [-2.57:7.59]	0.3332
0.0029	2.48 [-0.14:5.10]	0.0639
0.0018	0.13 [-2.29:2.56]	0.9146
0.4618	0.96 [-4.39:6.30]	0.7261
1E-06	5.07 [2.59:7.55]	6E-05
0.353	0.25 [-2.39:2.89]	0.8512
1E-05	2.68 [0.31:5.06]	0.0268
0.0109	0.27 [-2.29:2.82]	0.8369
0.0004	0.60 [-1.87:3.07]	0.6344
5E-05	-1.93 [-6.86:3.00]	0.4431
2E-12	5.37 [2.85:7.89]	3E-05
0.6915	4.66 [2.18:7.15]	0.0002
8E-05	5.06 [0.17:9.96]	0.0426
0.2388	0.73 [-1.97:3.44]	0.5954
0.0143	1.38 [-1.17:3.92]	0.2889
9E-08	1.08 [-1.41:3.58]	0.3958
0.7783	4.92 [2.38:7.46]	0.0001
2E-05	2.64 [-2.39:7.67]	0.3034
0.3083	0.57 [-1.84:2.98]	0.6434
9E-14	-3.64 [-6.30:-0.98]	0.0073
0.0622	4.58 [-0.55:9.71]	0.0803
5E-18	4.65 [2.12:7.18]	0.0003
0.4278	-0.45 [-2.96:2.05]	0.7237
6E-13	-5.93 [-10.78:-1.09]	0.0164
3E-05	4.07 [1.50:6.64]	0.0019
1E-13	1.17 [-1.23:3.56]	0.3387
4E-06	4.86 [2.37:7.36]	0.0001
2E-15	5.12 [2.67:7.57]	4E-05
4E-06	2.51 [0.08:4.93]	0.0428
0.0002	1.24 [-1.22:3.70]	0.3236
0.251	0.33 [-2.45:3.12]	0.8145
2E-26	5.53 [3.04:8.03]	1E-05
0.0046	0.39 [-2.10:2.89]	0.7573
1E-09	4.64 [2.15:7.12]	0.0003
1E-05	4.87 [2.34:7.40]	0.0002

0.0353	2.37 [-2.53:7.27]	0.3429
0.1569	2.54 [0.09:4.99]	0.0425
0.0022	-0.05 [-2.63:2.54]	0.9708
0.7535	2.96 [0.44:5.49]	0.0215
3E-06	1.29 [-1.27:3.84]	0.3248
1E-05	1.08 [-1.42:3.57]	0.3981
0.2417	2.78 [0.28:5.29]	0.0296
3E-21	3.56 [0.62:6.50]	0.0176
1E-08	3.81 [1.36:6.26]	0.0023
0.6226	2.11 [-0.55:4.78]	0.1205
0.0191	1.07 [-1.44:3.58]	0.4016
3E-07	3.54 [0.99:6.09]	0.0065
0.2224	2.61 [0.01:5.20]	0.0491
0.0629	4.79 [2.34:7.25]	0.0001
0.0965	0.14 [-2.34:2.63]	0.9092
0.0328	0.97 [-1.57:3.50]	0.4544
4E-16	4.88 [2.37:7.39]	0.0001
1E-05	3.86 [1.43:6.29]	0.0019
6E-07	5.11 [2.59:7.63]	7E-05
0.0392	2.45 [-2.68:7.57]	0.3491
1E-06	2.36 [-0.14:4.86]	0.0642
2E-08	4.04 [1.48:6.61]	0.002
0.2909	6.29 [0.43:12.15]	0.0354
0.0031	2.02 [-0.43:4.48]	0.1058
0.0001	4.97 [2.57:7.38]	5E-05
0.0082	2.72 [-2.37:7.80]	0.2951
2E-08	1.45 [-1.02:3.92]	0.2491
0.212	-0.19 [-2.65:2.27]	0.8783
0.0002	-0.35 [-6.30:5.60]	0.9077
5E-10	3.92 [1.30:6.54]	0.0034
0.0589	6.44 [3.99:8.89]	3E-07
0.0453	-1.73 [-6.62:3.17]	0.4898
4E-16	4.61 [2.12:7.09]	0.0003
0.0002	-4.31 [-9.14:0.52]	0.0801
8E-12	-0.10 [-2.61:2.41]	0.9379
1E-09	4.15 [1.73:6.57]	0.0008
3E-18	4.43 [1.76:7.11]	0.0011
5E-13	7.19 [2.04:12.34]	0.0062
6E-15	-2.82 [-5.30:-0.34]	0.0261
0.0586	0.04 [-2.46:2.54]	0.9764
0.0521	-2.81 [-8.21:2.58]	0.3066
3E-05	-2.23 [-4.71:0.24]	0.077
5E-10	3.36 [0.72:6.00]	0.0125

3E-06	2.22 [-0.27:4.71]	0.0803
0.0382	3.39 [0.60:6.18]	0.0173
4E-05	-2.73 [-5.18:-0.27]	0.0297
0.0426	7.04 [1.99:12.10]	0.0063
0.9351	7.92 [2.58:13.26]	0.0037
7E-06	0.99 [-4.15:6.12]	0.7063
2E-05	5.09 [-0.05:10.22]	0.0521
2E-05	0.69 [-1.82:3.19]	0.5912
3E-05	-0.82 [-3.38:1.73]	0.5276
0.1425	-3.55 [-9.44:2.35]	0.238
0.2455	1.40 [-1.08:3.88]	0.2675
9E-05	3.28 [0.69:5.87]	0.0132
6E-09	7.38 [4.91:9.86]	5E-09
0.5716	4.17 [1.70:6.63]	0.0009
6E-07	6.12 [3.60:8.64]	2E-06
0.4693	-0.30 [-2.88:2.28]	0.8221
0.007	1.90 [-0.53:4.32]	0.1248
0.7703	3.84 [1.40:6.28]	0.0021
0.0013	0.23 [-2.37:2.83]	0.8631
0.8447	-2.73 [-5.13:-0.33]	0.0256
2E-13	8.24 [2.81:13.67]	0.003
0.0187	-0.05 [-4.96:4.86]	0.983
0.3429	4.61 [2.16:7.07]	0.0002
0.1276	2.36 [-0.30:5.01]	0.0816
4E-12	3.24 [0.69:5.79]	0.0129
2E-17	2.78 [0.39:5.18]	0.0226
0.0027	2.57 [0.03:5.10]	0.047
0.1486	4.19 [1.64:6.73]	0.0013
0.0683	3.13 [0.64:5.62]	0.0136
0.0011	3.35 [0.82:5.88]	0.0095
0.0628	-4.83 [-10.97:1.32]	0.1237
0.0931	4.74 [2.23:7.24]	0.0002
0.0001	0.13 [-2.35:2.61]	0.9209
0.0008	2.23 [-0.25:4.71]	0.0778
0.0046	0.55 [-5.53:6.63]	0.8586
0.0004	-0.68 [-3.28:1.92]	0.6074
0.0199	1.83 [-0.66:4.31]	0.1502

0.0083	2.76 [-2.64:8.15]	0.3165
0.0557	-0.43 [-5.40:4.54]	0.8646
0.2368	-6.34 [-12.59:-0.08]	0.047
0.3878	4.69 [-1.19:10.58]	0.1177
0.1613	-0.43 [-5.57:4.71]	0.8696
0.6604	0.79 [-4.08:5.65]	0.7516
0.8696	0.57 [-4.52:5.65]	0.8274
0.0054	0.97 [-3.90:5.85]	0.6953
0.2944	2.55 [-3.41:8.51]	0.4018
0.4118	-0.02 [-2.64:2.59]	0.9852
0.0867	1.80 [-3.22:6.81]	0.482
0.5082	-0.61 [-6.29:5.07]	0.8331
0.0728	-1.12 [-6.72:4.47]	0.6941
0.014	-0.49 [-6.63:5.65]	0.8762
0.2202	3.91 [-2.12:9.93]	0.2038
0.0002	2.92 [-2.08:7.93]	0.2525
8E-07	1.91 [-0.68:4.50]	0.1478
0.0002	0.20 [-5.24:5.64]	0.9422
0.1365	5.07 [0.13:10.01]	0.0443
0.6899	-0.42 [-3.22:2.38]	0.7703
0.0605	1.06 [-3.96:6.08]	0.6782
0.0023	1.36 [-1.14:3.87]	0.2863
0.3439	-1.86 [-7.83:4.11]	0.5407
0.352	0.66 [-4.86:6.17]	0.8155
0.0504	2.39 [-2.56:7.33]	0.3438
0.1153	2.24 [-2.73:7.21]	0.3767
0.2618	-5.84 [-11.15:-0.53]	0.0311
0.0174	3.25 [-2.05:8.54]	0.2299
0.0757	-0.79 [-3.29:1.71]	0.5372
0.0395	-2.81 [-8.80:3.18]	0.3579
0.5343	-2.33 [-8.05:3.40]	0.4254
0.0994	3.01 [-3.17:9.19]	0.3395

0.7876	3.03 [-2.22:8.28]	0.2578
0.3026	-0.66 [-5.57:4.25]	0.7926
0.0076	-0.05 [-2.54:2.43]	0.9662
0.0236	-2.14 [-7.96:3.68]	0.4707
0.0652	0.14 [-2.42:2.70]	0.9164
1E-05	2.13 [-0.31:4.57]	0.0873
4E-09	2.51 [-0.07:5.10]	0.0567
1E-06	4.60 [-0.37:9.56]	0.0697
1E-09	2.53 [-0.16:5.22]	0.0654
0.0347	1.89 [-0.72:4.50]	0.1548
0.0877	4.82 [-0.20:9.84]	0.0596
0.0036	2.96 [0.41:5.50]	0.0226
0.0054	2.66 [-0.09:5.40]	0.0576
0.0005	3.88 [-1.11:8.88]	0.1276
0.6667	3.42 [-1.56:8.40]	0.178
0.5749	0.74 [-5.17:6.65]	0.8064
0.0073	0.14 [-2.29:2.56]	0.9119
0.0563	0.42 [-1.99:2.83]	0.7331
0.0085	7.88 [2.51:13.24]	0.004
9E-11	6.54 [1.15:11.93]	0.0174
3E-12	3.08 [0.43:5.73]	0.0227
0.0002	5.92 [0.95:10.89]	0.0195
0.0618	-1.26 [-7.51:5.00]	0.6938
2E-06	-0.56 [-3.12:2.01]	0.6709
0.0911	1.08 [-3.87:6.03]	0.6699
0.4159	-0.88 [-3.31:1.56]	0.4811
5E-05	-1.84 [-4.36:0.67]	0.1512
0.9451	0.41 [-2.10:2.91]	0.7497
0.0043	-2.44 [-8.47:3.59]	0.4273
0.0002	1.91 [-0.72:4.54]	0.1542
0.0018	4.39 [1.87:6.92]	0.0007
0.0065	-2.30 [-7.80:3.21]	0.4132
0.7672	2.74 [0.19:5.29]	0.0349
0.0116	4.01 [-2.12:10.14]	0.1993
0.0384	1.96 [-3.90:7.81]	0.5128
7E-07	4.54 [-1.57:10.64]	0.1454
0.0084	3.84 [-1.45:9.13]	0.1548
0.3586	-2.10 [-7.19:2.99]	0.4182
1E-05	0.82 [-1.66:3.30]	0.5163
0.0058	0.68 [-1.84:3.20]	0.5962
0.9348	0.08 [-2.51:2.67]	0.9517
1E-05	2.60 [-3.06:8.27]	0.3676

0.1634	1.74 [-3.92:7.40]	0.5476
0.0511	3.45 [0.88:6.02]	0.0085
0.0075	-0.24 [-5.51:5.04]	0.9297
9E-12	3.64 [-1.26:8.54]	0.1454
2E-10	-1.86 [-4.42:0.70]	0.154
9E-06	2.22 [-0.44:4.88]	0.102
9E-26	-2.29 [-5.04:0.46]	0.1025
3E-05	-0.50 [-2.98:1.98]	0.6947
0.6112	-1.13 [-3.78:1.51]	0.4003
2E-06	0.87 [-4.01:5.74]	0.7278
1E-20	7.28 [1.99:12.58]	0.007
8E-21	6.35 [1.25:11.46]	0.0147
1E-13	11.72 [6.00:17.43]	6E-05
0.6649	-0.69 [-5.81:4.43]	0.7921
9E-06	1.92 [-0.53:4.37]	0.1245
0.2036	-0.45 [-3.03:2.13]	0.7342
7E-16	-0.34 [-2.94:2.25]	0.7958
0.1113	2.14 [-2.67:6.95]	0.384
9E-09	-5.35 [-10.63:-0.07]	0.0469
1E-05	-4.53 [-9.70:0.64]	0.0861
3E-21	2.60 [-3.14:8.33]	0.3746
0.213	-0.13 [-2.81:2.56]	0.9272
1E-05	1.63 [-4.51:7.78]	0.6026
0.0003	1.79 [-3.67:7.25]	0.5207
3E-10	2.56 [-3.25:8.37]	0.3883
2E-09	2.93 [0.37:5.50]	0.0251
1E-07	6.51 [1.55:11.47]	0.0102
0.0007	2.07 [-4.00:8.13]	0.5042
0.0138	4.93 [0.05:9.81]	0.0477
1E-06	2.37 [-0.05:4.79]	0.0549
2E-09	3.36 [0.93:5.79]	0.0067
6E-07	2.19 [-0.61:5.00]	0.1255
0.2973	-3.52 [-8.92:1.88]	0.2015
7E-11	-1.60 [-4.12:0.93]	0.2152
0.0003	2.45 [-3.09:8.00]	0.3856
0.0623	0.09 [-2.36:2.55]	0.9411
5E-20	5.07 [2.55:7.59]	8E-05
6E-40	-3.72 [-6.26:-1.19]	0.0039
0.0013	1.51 [-1.04:4.06]	0.2444
0.0078	0.68 [-4.27:5.63]	0.787
0.0037	1.73 [-0.97:4.42]	0.2086

0.0293	1.27 [-1.14:3.69]	0.3001
2E-11	0.52 [-2.03:3.08]	0.6883
0.0057	-0.05 [-2.73:2.63]	0.969
0.4999	0.76 [-1.78:3.30]	0.5578
0.7732	-0.82 [-6.83:5.20]	0.7902
1E-18	1.55 [-0.93:4.03]	0.2217
7E-14	3.13 [0.65:5.62]	0.0134
0.0044	4.43 [1.96:6.91]	0.0005
3E-06	2.22 [-0.59:5.04]	0.1212
2E-05	1.16 [-1.50:3.82]	0.3913
4E-07	1.24 [-3.80:6.28]	0.6302
3E-17	6.41 [1.36:11.47]	0.0129
2E-05	-1.31 [-3.79:1.17]	0.3
0.001	2.04 [-0.41:4.49]	0.1024
3E-09	2.18 [-0.32:4.67]	0.087
3E-05	2.83 [-2.23:7.88]	0.2729
1E-04	2.72 [0.25:5.19]	0.031
1E-22	4.47 [1.92:7.01]	0.0006
1E-07	-1.94 [-4.57:0.70]	0.1493
1E-08	-0.95 [-3.43:1.52]	0.4509
1E-14	3.29 [0.81:5.78]	0.0093
2E-28	5.34 [2.77:7.91]	5E-05
8E-19	-0.75 [-3.40:1.89]	0.5771
4E-11	4.32 [1.69:6.95]	0.0013
0.6617	-0.63 [-3.10:1.83]	0.6147
3E-05	3.47 [-2.11:9.06]	0.2227
0.5124	1.83 [-3.30:6.96]	0.484
0.5963	0.81 [-1.73:3.36]	0.5309
0.0192	1.44 [-1.09:3.96]	0.2641
1E-05	2.57 [0.18:4.95]	0.0351
0.277	1.82 [-0.65:4.30]	0.1487
0.0018	4.47 [1.87:7.08]	0.0008
8E-07	2.17 [-0.37:4.71]	0.0946
0.6945	-2.81 [-8.67:3.05]	0.3472
4E-05	-1.83 [-4.39:0.72]	0.159
2E-05	-3.36 [-5.92:-0.80]	0.01
8E-06	3.18 [-1.91:8.27]	0.2207
2E-09	-1.18 [-3.73:1.36]	0.3615
6E-09	-3.36 [-8.98:2.27]	0.2423
0.101	1.31 [-3.67:6.28]	0.6066
4E-09	1.24 [-1.49:3.97]	0.3741
0.0589	4.15 [-1.35:9.65]	0.1392
0.0935	0.90 [-4.35:6.14]	0.7381
0.0002	-1.08 [-6.17:4.02]	0.6786
9E-13	-0.53 [-3.15:2.09]	0.6926
2E-08	2.61 [0.03:5.18]	0.0474

0.014	-0.67 [-3.13:1.79]	0.5941
2E-12	2.96 [0.34:5.58]	0.0266
4E-08	2.23 [-2.67:7.14]	0.3724
2E-13	1.59 [-1.11:4.29]	0.2478
0.0025	1.62 [-3.25:6.49]	0.5149
2E-22	2.23 [-0.21:4.66]	0.073
0.0039	-0.59 [-6.30:5.11]	0.8385
0.0016	2.45 [-0.11:5.01]	0.0607
0.0145	1.02 [-1.38:3.43]	0.4042
0.0103	0.78 [-1.88:3.45]	0.5653
0.007	0.23 [-2.27:2.72]	0.8591
0.2173	-0.58 [-3.10:1.95]	0.6544
0.5218	0.50 [-4.48:5.49]	0.8435
2E-17	3.57 [1.04:6.10]	0.0057
6E-10	4.52 [2.10:6.93]	0.0002
0.6193	0.45 [-5.72:6.61]	0.8872
0.0094	0.94 [-1.63:3.52]	0.4734
0.2315	-1.43 [-3.98:1.13]	0.2733
1E-15	2.80 [0.37:5.24]	0.0242
0.0069	-0.66 [-3.21:1.89]	0.6142
0.6525	0.14 [-6.25:6.53]	0.9652
9E-31	4.37 [1.70:7.04]	0.0014
0.0029	7.88 [2.26:13.49]	0.006
0.037	3.51 [1.04:5.98]	0.0054
0.011	0.57 [-1.88:3.03]	0.6468
5E-06	2.00 [-0.56:4.56]	0.1253
0.1985	0.33 [-2.13:2.79]	0.792
4E-19	-5.10 [-7.71:-2.48]	0.0001
0.5483	-1.50 [-3.95:0.96]	0.2315
3E-19	3.96 [1.42:6.51]	0.0023
4E-13	6.15 [1.10:11.19]	0.017
0.4023	-0.12 [-2.60:2.35]	0.9212
1E-05	1.61 [-0.82:4.05]	0.1944
0.17	3.05 [-2.37:8.47]	0.2698
5E-16	4.26 [1.82:6.70]	0.0006
0.0284	1.93 [-0.46:4.33]	0.1137
0.1188	2.14 [-2.76:7.04]	0.3913
7E-06	7.71 [2.06:13.36]	0.0074
0.0007	0.21 [-5.83:6.24]	0.9465
2E-19	2.17 [-0.33:4.66]	0.0884
1E-09	4.41 [-0.75:9.56]	0.0937
1E-17	6.34 [0.33:12.34]	0.0388
4E-17	4.52 [-0.91:9.94]	0.103
0.1036	0.87 [-1.75:3.50]	0.5147
0.3328	4.79 [2.15:7.43]	0.0004
1E-32	-2.07 [-4.60:0.45]	0.1066

3E-16	3.35 [0.86:5.85]	0.0085
2E-16	4.11 [1.69:6.53]	0.0009
5E-06	-1.11 [-3.55:1.34]	0.3766
1E-07	3.38 [-2.58:9.34]	0.2664
6E-21	5.05 [2.64:7.46]	4E-05
8E-12	6.80 [1.63:11.97]	0.01
0.2428	3.14 [-2.03:8.31]	0.2341
4E-30	-2.94 [-5.50:-0.38]	0.0242
0.3651	-4.39 [-9.38:0.60]	0.0845
2E-05	0.96 [-3.92:5.83]	0.7012
6E-08	2.46 [-2.70:7.62]	0.3496
0.0088	0.90 [-3.97:5.78]	0.7163
3E-05	1.24 [-3.87:6.34]	0.6349
0.3331	0.51 [-5.27:6.28]	0.8637
7E-09	2.37 [-0.27:5.00]	0.0785
2E-14	0.71 [-1.75:3.17]	0.5723
7E-07	5.46 [-0.02:10.94]	0.0508
3E-10	4.24 [-0.67:9.15]	0.0903
0.4696	2.11 [-0.39:4.60]	0.0977
0.1293	4.72 [2.28:7.16]	0.0002
0.6613	3.71 [1.17:6.26]	0.0043
0.0002	0.13 [-2.44:2.71]	0.9186
0.8641	2.92 [0.44:5.41]	0.0213
0.4859	6.33 [1.31:11.34]	0.0134
0.0128	1.31 [-1.09:3.70]	0.2847
0.0299	2.33 [-0.08:4.74]	0.058
0.0428	2.58 [0.06:5.10]	0.0448
0.2659	9.45 [3.93:14.96]	0.0008
2E-05	5.03 [0.06:10.01]	0.0473
0.4206	0.01 [-2.43:2.46]	0.9915
2E-05	0.80 [-1.71:3.30]	0.533
0.0022	5.64 [0.75:10.52]	0.0238
0.0214	4.02 [1.56:6.48]	0.0014
1E-14	3.49 [1.14:5.85]	0.0036
0.0667	2.13 [-0.54:4.81]	0.118
0.0002	4.21 [-0.72:9.14]	0.094
0.0013	2.79 [-0.04:5.63]	0.0537
0.0002	4.37 [-0.75:9.48]	0.0943
0.0005	7.29 [1.69:12.89]	0.0107
0.0003	-0.11 [-5.20:4.98]	0.9652
0.1958	2.08 [-0.43:4.58]	0.1045
0.248	0.33 [-2.06:2.71]	0.7892
0.022	2.15 [-0.36:4.66]	0.0928
0.0023	2.72 [-2.90:8.34]	0.3427
0.0909	2.68 [-2.71:8.07]	0.3297
1E-12	4.29 [1.88:6.71]	0.0005
1E-06	1.72 [-0.82:4.27]	0.1848

4E-06	7.74 [2.72:12.75]	0.0025
0.0121	3.80 [1.38:6.23]	0.0021
0.0006	1.19 [-1.48:3.86]	0.3835
0.2526	2.13 [-0.29:4.55]	0.0847
5E-08	3.38 [0.86:5.90]	0.0087
0.4409	2.60 [-3.34:8.54]	0.3905
0.1388	3.47 [1.06:5.87]	0.0048
3E-05	2.93 [0.38:5.49]	0.0244
0.0109	1.95 [-0.52:4.42]	0.1212
0.0024	3.91 [1.49:6.32]	0.0015
0.0021	5.21 [2.76:7.65]	3E-05
1E-06	2.64 [0.12:5.16]	0.0403
0.3716	3.91 [1.46:6.36]	0.0018
0.475	5.02 [2.56:7.49]	6E-05
0.1968	1.36 [-1.14:3.85]	0.2862
9E-09	4.38 [1.87:6.88]	0.0006
0.4608	4.07 [1.66:6.49]	0.0009
0.9646	0.16 [-5.72:6.04]	0.9567
0.0006	7.14 [2.24:12.05]	0.0043
0.0024	0.81 [-1.59:3.21]	0.5094
6E-07	2.57 [0.06:5.08]	0.0449
0.0367	1.37 [-3.50:6.24]	0.5804
0.9047	5.27 [2.79:7.74]	3E-05
6E-09	4.53 [2.03:7.04]	0.0004
0.0037	4.57 [2.02:7.11]	0.0004
4E-06	3.56 [1.08:6.05]	0.005
0.2328	2.92 [0.18:5.66]	0.0364
0.0083	7.84 [3.00:12.69]	0.0015
0.0216	3.44 [0.89:5.99]	0.0082
0.0027	3.71 [1.19:6.24]	0.004
0.6965	4.84 [2.32:7.37]	0.0002
0.1152	4.64 [2.10:7.18]	0.0003
0.0569	2.49 [-0.21:5.19]	0.0702
5E-06	-0.22 [-6.17:5.72]	0.941
0.8365	-1.47 [-7.60:4.66]	0.6387
6E-13	3.63 [1.10:6.16]	0.005
7E-12	2.63 [0.20:5.07]	0.0342
1E-16	4.95 [2.41:7.50]	0.0001
0.4812	-0.70 [-6.53:5.13]	0.814
7E-05	1.08 [-1.43:3.59]	0.3981
0.0059	-1.04 [-3.46:1.38]	0.3992
1E-04	0.66 [-1.88:3.19]	0.6109
5E-07	2.50 [0.02:4.98]	0.0483
0.7949	0.87 [-4.23:5.97]	0.7383
0.9907	2.66 [-2.22:7.54]	0.2848
0.2311	-0.80 [-3.29:1.70]	0.5315
0.0003	-0.31 [-2.75:2.13]	0.8045

0.3062	-1.10 [-3.60:1.39]	0.3869
0.0001	1.54 [-3.83:6.92]	0.5734
0.0002	1.04 [-1.49:3.57]	0.4205
5E-06	0.75 [-1.84:3.34]	0.5717
0.1086	-0.54 [-2.93:1.85]	0.6573
0.0523	0.14 [-2.37:2.65]	0.9135
0.0005	-0.51 [-2.93:1.91]	0.6804
0.0902	3.28 [0.81:5.76]	0.0093
0.0086	1.78 [-3.46:7.02]	0.5062
0.0421	0.33 [-2.30:2.97]	0.8039
0.7653	-1.87 [-7.08:3.35]	0.4829
2E-05	5.19 [2.60:7.79]	9E-05
8E-21	3.30 [-2.26:8.87]	0.2444
0.0102	-5.81 [-10.74:-0.87]	0.021
0.4662	5.24 [2.59:7.89]	0.0001
0.2765	-0.33 [-5.73:5.06]	0.9031
1E-16	4.05 [-0.98:9.09]	0.1148
0.0609	1.66 [-4.06:7.38]	0.5697
2E-06	0.91 [-1.75:3.57]	0.5015
9E-11	3.76 [1.18:6.34]	0.0043
0.0125	3.29 [0.73:5.86]	0.0119
0.6647	-0.58 [-6.02:4.86]	0.8347
2E-11	6.05 [0.81:11.30]	0.0237
0.0416	-2.32 [-7.50:2.86]	0.3801
2E-11	7.40 [1.68:13.13]	0.0113
1E-28	4.28 [1.63:6.94]	0.0016
0.0002	3.94 [-1.02:8.90]	0.1199
0.0688	4.24 [-1.14:9.61]	0.1225
4E-19	1.92 [-0.62:4.47]	0.1391
6E-16	3.27 [0.60:5.94]	0.0165
0.0087	1.18 [-4.29:6.66]	0.6718
1E-05	-0.32 [-3.19:2.55]	0.8293
6E-06	1.87 [-0.58:4.32]	0.1343
0.0285	4.17 [-1.64:9.98]	0.1593
8E-06	1.83 [-0.66:4.31]	0.15
0.0548	-0.41 [-2.92:2.11]	0.7502
0.0306	2.50 [-2.50:7.50]	0.3279
1E-05	2.60 [0.15:5.04]	0.0374
2E-06	3.54 [0.99:6.10]	0.0066
3E-05	-1.24 [-4.10:1.62]	0.395
0.8853	-1.20 [-3.59:1.19]	0.3266
0.0016	1.10 [-1.30:3.49]	0.3706
0.8872	3.41 [0.91:5.92]	0.0076
0.004	0.55 [-1.84:2.95]	0.6499
0.4815	1.85 [-0.61:4.30]	0.1406
0.4707	1.07 [-1.46:3.61]	0.4055
0.0554	3.38 [-2.15:8.91]	0.2309
0.6543	0.54 [-1.92:3.00]	0.6656
3E-16	3.02 [0.22:5.82]	0.0346
1E-11	3.90 [1.37:6.43]	0.0025

2E-08	-0.71 [-3.24:1.82]	0.5836
0.2059	3.19 [-1.99:8.38]	0.2272
2E-21	1.52 [-1.00:4.04]	0.2373
0.2002	1.32 [-1.32:3.96]	0.3275
0.929	-5.94 [-10.95:-0.93]	0.0202
0.0758	4.07 [-0.85:8.99]	0.1053
0.0002	-2.29 [-4.75:0.17]	0.0682
0.8506	0.37 [-4.86:5.60]	0.8898
0.1493	3.19 [-1.77:8.15]	0.2075
2E-15	3.87 [1.15:6.59]	0.0053
0.9116	4.39 [-0.61:9.39]	0.0849
4E-06	3.93 [1.48:6.39]	0.0017
0.5781	3.70 [1.23:6.16]	0.0033
0.3236	2.68 [0.12:5.23]	0.0398
2E-09	-1.12 [-3.73:1.48]	0.3987
0.2333	1.11 [-1.40:3.62]	0.3847
0.007	0.67 [-1.98:3.32]	0.6194
1E-16	0.77 [-4.16:5.70]	0.7598
3E-06	6.18 [1.19:11.16]	0.0151
0.0577	3.20 [0.75:5.65]	0.0105
0.4684	2.16 [-0.44:4.76]	0.1038
6E-05	4.19 [1.57:6.82]	0.0018
2E-09	2.90 [0.26:5.53]	0.0312
0.5359	-2.18 [-4.71:0.35]	0.0913
0.0046	7.61 [2.37:12.86]	0.0045
0.022	3.87 [-1.10:8.84]	0.1273
2E-05	0.95 [-1.49:3.40]	0.4441
2E-15	2.88 [-2.16:7.92]	0.2622
0.1573	-0.85 [-3.50:1.80]	0.5289
0.0449	-0.21 [-2.77:2.35]	0.8717
0.0073	-0.17 [-2.70:2.36]	0.8955
0.06	3.05 [0.52:5.59]	0.0183
0.3449	3.20 [-2.74:9.13]	0.2912
0.3168	2.58 [0.05:5.11]	0.0459
0.0358	3.05 [0.33:5.76]	0.0279
9E-05	3.85 [1.19:6.51]	0.0046
0.0021	1.49 [-0.92:3.91]	0.2247
0.2883	0.77 [-1.74:3.29]	0.5471
0.0229	1.94 [-0.84:4.73]	0.1718
0.2949	2.72 [-2.35:7.79]	0.2936
0.1705	-2.51 [-7.43:2.41]	0.3172
0.6805	-0.15 [-2.84:2.55]	0.9158
0.5515	-1.85 [-6.75:3.05]	0.4588
4E-10	6.30 [1.48:11.12]	0.0104
0.841	-2.47 [-7.75:2.81]	0.3584
2E-14	5.33 [0.45:10.21]	0.0324
0.0025	-0.16 [-2.71:2.39]	0.9007
0.3784	-2.44 [-8.51:3.64]	0.4318
0.6518	-0.53 [-5.82:4.75]	0.8431
9E-05	3.23 [-2.97:9.43]	0.3071

0.0005	3.66 [-1.53:8.85]	0.1672
7E-09	3.62 [1.04:6.19]	0.006
0.536	1.14 [-3.70:5.98]	0.645
0.4813	3.68 [1.18:6.18]	0.0039
4E-05	1.56 [-0.94:4.07]	0.2216
0.1722	3.25 [0.73:5.77]	0.0114
0.6871	2.59 [0.07:5.11]	0.0443
0.536	1.63 [-0.91:4.18]	0.2084
1E-11	9.71 [4.67:14.76]	0.0002
7E-05	7.91 [1.94:13.87]	0.0094
0.9584	2.07 [-3.67:7.81]	0.4799
7E-20	8.40 [3.54:13.26]	0.0007
0.0012	-2.19 [-8.07:3.68]	0.4643
1E-15	2.44 [-0.10:4.99]	0.0598
1E-20	9.41 [4.22:14.61]	0.0004
0.0038	2.41 [-0.17:4.99]	0.0672
0.0002	2.74 [0.22:5.25]	0.0329
5E-09	6.22 [0.93:11.51]	0.0211
0.1009	0.90 [-1.65:3.45]	0.4881
8E-09	4.19 [-0.75:9.13]	0.0961
0.0161	1.54 [-1.03:4.10]	0.2412
0.3745	3.99 [-0.89:8.88]	0.1089
4E-19	3.51 [0.81:6.21]	0.0108
0.2146	3.38 [-1.52:8.27]	0.1767
8E-06	1.09 [-1.41:3.58]	0.3943
4E-08	5.12 [0.18:10.07]	0.0424
1E-07	11.37 [6.11:16.63]	2E-05
8E-14	3.08 [-1.86:8.02]	0.2217
4E-23	5.91 [0.38:11.44]	0.0363
0.0279	3.37 [0.89:5.85]	0.0078
0.0219	1.86 [-3.41:7.12]	0.4894
1E-11	2.61 [0.10:5.11]	0.0415
0.9304	3.35 [-1.86:8.56]	0.2075
0.2074	0.53 [-4.45:5.50]	0.8356
5E-05	1.13 [-1.33:3.58]	0.3694
0.0781	2.76 [0.16:5.36]	0.0375
1E-07	-0.83 [-3.37:1.71]	0.5227
0.0009	7.12 [1.68:12.57]	0.0103
1E-12	4.36 [-1.45:10.17]	0.1416
0.0002	-0.20 [-3.11:2.70]	0.8907
0.0006	0.30 [-5.17:5.78]	0.9132
0.0024	-3.48 [-9.27:2.31]	0.2386
3E-07	-2.01 [-4.51:0.49]	0.1152
0.1111	1.00 [-1.67:3.68]	0.4625
0.2221	1.11 [-1.41:3.63]	0.3894
6E-05	3.12 [0.65:5.59]	0.0132
3E-08	7.11 [2.23:12.00]	0.0043
0.793	-1.77 [-4.25:0.72]	0.163
0.3997	2.63 [0.12:5.15]	0.0398
3E-05	0.69 [-1.87:3.24]	0.5985

0.2556	5.04 [2.42:7.67]	0.0002
1E-07	1.77 [-0.86:4.40]	0.1878
9E-17	0.61 [-1.95:3.16]	0.6415
0.0019	-1.02 [-3.49:1.44]	0.4148
0.0258	2.77 [0.25:5.30]	0.0313
4E-29	3.68 [1.19:6.17]	0.0038
1E-07	1.36 [-1.22:3.94]	0.3016
0.3658	3.35 [-1.39:8.10]	0.1663
2E-08	1.58 [-3.95:7.11]	0.5762
1E-05	1.79 [-0.84:4.41]	0.1817
0.0562	0.43 [-4.84:5.71]	0.8724
0.2089	1.85 [-3.23:6.93]	0.4745
5E-08	0.55 [-4.45:5.56]	0.8282
8E-19	3.36 [0.72:5.99]	0.0126
0.4351	0.97 [-1.87:3.80]	0.5026
3E-11	1.75 [-0.83:4.33]	0.1844
2E-16	5.52 [3.06:7.99]	1E-05
4E-11	-3.82 [-6.31:-1.33]	0.0026
0.0021	-4.95 [-10.89:0.99]	0.1021
2E-08	1.03 [-1.47:3.53]	0.4204
0.0017	6.30 [1.11:11.49]	0.0174
5E-06	2.80 [0.35:5.26]	0.025
1E-07	-4.36 [-9.77:1.04]	0.1138
0.4175	-0.64 [-3.24:1.96]	0.6284
1E-04	2.36 [-0.16:4.88]	0.067
0.1519	2.05 [-3.90:7.99]	0.4999
0.0001	1.45 [-1.25:4.15]	0.2932
0.7984	-0.12 [-2.62:2.37]	0.9219
0.3438	2.07 [-0.54:4.69]	0.1205
0.0207	3.89 [1.40:6.38]	0.0022
0.3338	-1.57 [-4.16:1.02]	0.2348
0.2212	0.26 [-2.52:3.04]	0.8562
0.4137	-0.57 [-3.28:2.14]	0.6815
0.1034	1.74 [-3.19:6.67]	0.4891
7E-05	7.72 [2.32:13.12]	0.0051
0.7302	4.58 [2.11:7.05]	0.0003
3E-13	2.66 [-0.13:5.45]	0.0613
0.526	-0.68 [-6.09:4.73]	0.8043
1E-12	-2.61 [-5.09:-0.13]	0.0388
7E-05	4.38 [-0.88:9.64]	0.1025
1E-07	10.80 [5.72:15.88]	3E-05
0.0189	2.02 [-0.59:4.62]	0.1288
7E-10	3.36 [0.95:5.77]	0.0063
0.6284	6.56 [1.63:11.49]	0.0091
3E-20	3.04 [0.27:5.82]	0.0318
0.0952	-1.01 [-3.45:1.44]	0.4207
0.0164	1.28 [-4.29:6.85]	0.653
9E-07	0.91 [-4.54:6.35]	0.7444
0.0162	-0.40 [-2.87:2.07]	0.75
5E-11	5.92 [1.03:10.81]	0.0177

3E-23	2.93 [0.44:5.42]	0.0212
6E-17	1.80 [-0.82:4.41]	0.1778
0.5272	2.01 [-0.43:4.45]	0.1065
0.5885	-1.79 [-4.26:0.67]	0.1537
6E-17	5.95 [0.79:11.10]	0.0238
0.4317	-2.08 [-7.23:3.06]	0.4273
0.7556	-3.01 [-7.93:1.92]	0.2312
0.0085	1.31 [-1.31:3.92]	0.3275
1E-12	7.41 [1.59:13.22]	0.0125
7E-10	7.16 [4.68:9.64]	2E-08
0.6379	-0.20 [-5.63:5.23]	0.942
0.0177	1.78 [-0.72:4.28]	0.1623
8E-20	5.56 [3.07:8.05]	1E-05
1E-09	3.77 [-1.94:9.48]	0.1951
0.0095	2.08 [-0.36:4.52]	0.0941
2E-06	2.44 [-0.06:4.94]	0.0562
0.7599	-0.85 [-6.01:4.30]	0.7456
1E-08	1.71 [-1.06:4.48]	0.2266
0.0406	-1.61 [-6.50:3.28]	0.5194
0.0022	3.13 [-1.78:8.05]	0.2118
0.3862	-0.99 [-5.87:3.88]	0.6897
2E-11	2.50 [-0.20:5.20]	0.07
0.0345	4.65 [-0.96:10.27]	0.1042
1E-05	5.45 [2.95:7.95]	2E-05
0.5992	1.35 [-3.57:6.28]	0.5899
9E-06	0.02 [-2.44:2.49]	0.9864
0.1587	1.14 [-1.35:3.64]	0.3698
4E-05	0.17 [-2.28:2.63]	0.8894
9E-07	1.13 [-3.80:6.06]	0.6532
0.1485	3.29 [-2.40:8.99]	0.2572
4E-13	-0.85 [-3.39:1.68]	0.5099
0.6902	0.14 [-2.33:2.61]	0.9105
3E-06	-1.01 [-3.53:1.51]	0.4319
2E-07	3.69 [1.20:6.17]	0.0036
5E-08	3.43 [0.83:6.03]	0.0096
7E-07	0.63 [-4.37:5.62]	0.8061
4E-12	4.69 [-0.40:9.79]	0.0711
3E-05	-0.75 [-3.26:1.76]	0.5565
8E-20	-1.22 [-3.60:1.16]	0.3145
0.0079	-1.47 [-4.12:1.18]	0.2779
0.0048	1.98 [-0.77:4.73]	0.1582
5E-19	0.91 [-1.77:3.60]	0.5041
0.012	0.18 [-4.83:5.18]	0.9443
6E-13	-1.38 [-3.99:1.23]	0.3001
5E-05	-2.88 [-8.27:2.52]	0.2956
6E-09	7.27 [2.40:12.14]	0.0034
4E-13	-3.55 [-8.37:1.27]	0.1492
0.0296	1.12 [-1.41:3.65]	0.3849
0.3913	-1.42 [-4.11:1.28]	0.3034

9E-05	4.36 [-0.61:9.33]	0.0853
0.7905	-2.87 [-8.09:2.35]	0.2809
0.0125	6.50 [0.58:12.42]	0.0314
0.0125	3.79 [1.26:6.31]	0.0033
3E-05	2.79 [0.25:5.33]	0.0314
1E-08	3.49 [1.00:5.98]	0.006
2E-10	-2.58 [-5.09:-0.06]	0.0445
0.0023	-0.50 [-2.86:1.86]	0.677
0.0554	-0.85 [-5.65:3.95]	0.7291
0.4268	-2.41 [-5.12:0.30]	0.0814
0.1422	-2.03 [-7.45:3.39]	0.4624
9E-11	3.94 [1.36:6.53]	0.0028
0.0102	1.35 [-3.56:6.26]	0.5901
0.4929	2.90 [-2.22:8.02]	0.2665
9E-07	-0.09 [-2.56:2.37]	0.9405
0.5923	0.54 [-5.53:6.60]	0.8618
0.0267	0.53 [-4.91:5.98]	0.8478
2E-12	5.94 [0.97:10.92]	0.0193
0.0551	-5.82 [-11.23:-0.41]	0.0351
0.0216	3.92 [-1.10:8.95]	0.1261
7E-05	-3.59 [-6.13:-1.05]	0.0056
0.0009	8.42 [3.05:13.78]	0.0021
0.92	1.36 [-1.12:3.83]	0.2823
7E-09	6.27 [1.40:11.14]	0.0116
0.005	2.48 [-2.44:7.41]	0.3234
0.0059	3.00 [0.49:5.51]	0.0191
2E-07	-2.60 [-5.07:-0.13]	0.0388
1E-05	5.42 [2.89:7.95]	3E-05
0.0146	9.31 [3.34:15.29]	0.0022
0.0995	-0.21 [-5.53:5.11]	0.9382
0.0003	4.84 [-0.76:10.43]	0.09
0.3053	-0.50 [-6.00:5.00]	0.8577
0.0592	-1.07 [-3.68:1.55]	0.4239
0.0027	-1.21 [-6.48:4.07]	0.6541
1E-07	-3.05 [-5.58:-0.52]	0.018
9E-06	0.70 [-1.95:3.36]	0.604
0.5548	-0.76 [-6.10:4.57]	0.7786
0.0703	0.34 [-2.20:2.87]	0.7952
0.0001	0.31 [-2.62:3.24]	0.8339
8E-05	-0.67 [-3.11:1.76]	0.5882
0.4405	1.44 [-3.51:6.39]	0.5697
0.0054	2.33 [-2.53:7.19]	0.3467
0.9623	6.96 [1.38:12.55]	0.0146
0.0007	-0.02 [-5.10:5.06]	0.9937
0.0501	1.16 [-1.53:3.85]	0.3979
0.6256	-1.19 [-3.75:1.38]	0.3658
0.2772	2.65 [-2.54:7.84]	0.3175

0.0772	-0.03 [-2.58:2.52]	0.9795
1E-16	4.28 [1.83:6.73]	0.0006
0.0016	-2.23 [-4.80:0.35]	0.0902
0.543	0.37 [-2.23:2.97]	0.7792
2E-06	0.38 [-4.55:5.32]	0.8788
6E-10	-1.73 [-4.25:0.78]	0.1762
0.9665	1.02 [-3.97:6.02]	0.6877
1E-14	3.55 [1.10:5.99]	0.0045
0.6668	2.50 [-2.42:7.42]	0.3195
1E-06	4.75 [2.26:7.24]	0.0002
0.1421	-1.11 [-3.67:1.45]	0.3934
0.0974	5.60 [-0.42:11.62]	0.0685
0.0043	-4.02 [-10.26:2.22]	0.2069
0.4223	2.39 [-2.48:7.26]	0.3361
0.2702	-3.19 [-8.90:2.52]	0.2736
1E-14	0.21 [-2.24:2.66]	0.8671
0.2872	1.54 [-0.94:4.02]	0.2243
0.0341	-1.90 [-7.10:3.31]	0.4748
6E-08	4.92 [-0.42:10.26]	0.0709
0.5852	-4.00 [-9.17:1.16]	0.1285
0.5702	0.95 [-3.86:5.76]	0.6981
2E-12	-0.84 [-3.39:1.71]	0.5191
0.1847	3.82 [-1.20:8.85]	0.1357
1E-07	1.40 [-1.29:4.09]	0.3079
0.0733	0.42 [-2.20:3.04]	0.754
0.4659	0.85 [-1.68:3.39]	0.5082
0.834	-1.66 [-4.22:0.90]	0.2027
0.0004	1.95 [-0.59:4.48]	0.1319
8E-16	2.39 [-0.09:4.87]	0.0587
0.0004	0.47 [-1.96:2.90]	0.7066
0.3235	4.91 [-0.46:10.29]	0.0731
0.6418	0.78 [-4.98:6.53]	0.7913
0.2458	-0.31 [-5.79:5.17]	0.9114
0.0003	-1.67 [-4.35:1.01]	0.2212
0.0001	2.11 [-0.33:4.54]	0.0905
2E-07	3.19 [0.72:5.66]	0.0115
0.6509	1.54 [-1.01:4.09]	0.237
0.8978	-0.15 [-5.09:4.80]	0.9531
4E-15	2.72 [0.25:5.19]	0.0309
0.5474	-0.83 [-5.76:4.11]	0.743
0.0554	3.84 [-1.03:8.70]	0.1222
0.0458	-5.92 [-11.21:-0.63]	0.0282
2E-09	4.76 [-0.26:9.77]	0.0629
0.0375	0.70 [-1.83:3.22]	0.5877
0.852	-1.20 [-6.71:4.31]	0.6692
1E-05	2.32 [-0.30:4.94]	0.0831
0.5258	2.40 [-3.06:7.87]	0.3892

Metabolite 1	Metabolite 2	Variant	rsID	Chromosome	Position
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M00053		chr1_88798929_G_A	rs139343471	1	88798929
M00053		chr1_101658658_G_GA		1	1.02E+08
M00053		chr1_108533725_C_CT		1	1.09E+08
M00053		chr1_205686423_C_T	rs114272944	1	2.06E+08
M00053		chr1_217244604_G_A	rs6694204	1	2.17E+08
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M00053		chr2_182846170_T_C	rs79804181	2	1.83E+08
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M00053	chr11_35627655_A_C	rs6484795	11	35627655
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M00053	chr14_34227859_A_G	chr14_34227859_A_G	14	34227859
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M00053		chr22_49203109_C_T	rs11704462	22	49203109
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M00053	M18467	chr19_28505479_C_T	rs56373867	19	28505479
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M00054		chr2_162603731_C_CT		2	1.63E+08

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M00054		chr21_16278985_G_A	rs13048738	21	16278985
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M00054		chr22_44811902_T_C	rs5766049	22	44811902
M00054		chr22_44812463_T_C	rs5766051	22	44812463
M00054		chr22_44813790_C_CACTT		22	44813790
M00054		chr22_44814037_G_A	rs5766053	22	44814037
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M00054	M01643	chr15_54604408_A_G	rs150419873	15	54604408
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M00054	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M00056	M15749	chr11_28830623_A_AT		11	28830623
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M00057	chr12_48514337_T_C	chr12_48514337_T_C	12	48514337
M00057	chr12_101552921_G_T	rs61945641	12	1.02E+08
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M00057	chr12_101559035_CG_C		12	1.02E+08
M00057	chr12_101563057_G_A	rs149666920	12	1.02E+08
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M00057	chr13_18812152_A_C	rs9509998	13	18812152
M00057	chr13_83882705_G_C	rs187804282	13	83882705
M00057	chr14_76791979_G_A	rs72737521	14	76791979
M00057	chr14_76799352_G_A	rs113278023	14	76799352
M00057	chr14_76814488_G_A	rs72737537	14	76814488
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M00057	chr14_76827008_A_T	rs72737549	14	76827008
M00057	chr15_39372453_T_C	rs144634525	15	39372453
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M00057	chr16_5977000_C_T	rs76748390	16	5977000
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M00057	M32418	chr6_137290099_G_A	rs6916375	6	1.37E+08
M00057	M32418	chr6_137290690_G_T	chr6_137290690_G_T	6	1.37E+08
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M00057	M39583	chr18_59710927_T_C	rs77082887	18	59710927
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M00057	M40406	chr12_29793412_T_C	rs302354	12	29793412
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M00057	M40406	chr20_1863083_G_A	rs75436965	20	1863083
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M00059		chr1_125066785_G_A	chr1_125066785_G_A	1	1.25E+08
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M00059		chr1_125157061_C_T	chr1_125157061_C_T	1	1.25E+08
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M00059	chr9_33345023_A_G	rs187772780	9	33345023
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M00059	chr11_79502030_G_C	rs10793382	11	79502030
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M00059		chr22_46556779_G_A	chr22_46556779_G_A	22	46556779
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M00059	M15749	chr11_28740427_A_G	rs17598593	11	28740427
M00059	M15749	chr11_28743034_G_A	chr11_28743034_G_A	11	28743034
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M00059	M15749	chr11_28805472_A_G	chr11_28805472_A_G	11	28805472
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M00059	M15749	chr11_28816622_C_G	rs17600063	11	28816622
M00059	M15749	chr11_28819955_C_T	rs17658492	11	28819955
M00059	M15749	chr11_28820666_AG_A		11	28820666
M00059	M15749	chr11_28821095_T_A	rs17600277	11	28821095
M00059	M15749	chr11_28821834_A_G	rs147562181	11	28821834
M00059	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M00059	M15749	chr11_28830623_A_AT		11	28830623
M00059	M18362	chr14_90139080_T_A	rs140585927	14	90139080
M00059	M18467	chr19_28573402_C_T	rs117567370	19	28573402
M00059	M18467	chr19_28641481_C_T	rs150430823	19	28641481
M00059	M22116	chr5_109793608_G_A	rs2301007	5	1.1E+08
M00059	M22116	chr5_109808927_T_G	rs34052755	5	1.1E+08
M00059	M27673	chr16_11448656_A_G	rs4303499	16	11448656
M00059	M39583	chr18_59710927_T_C	rs77082887	18	59710927
M00059	M41374	chr9_33125696_C_T	rs193088677	9	33125696
M00059	M42398	chr4_61757720_A_C	rs111976496	4	61757720
M00059	M43374	chr6_141949723_TG_T		6	1.42E+08
M00059	M44526	chr5_109808927_T_G	rs34052755	5	1.1E+08
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M00060		chr1_5861978_C_T	chr1_5861978_C_T	1	5861978
M00060		chr1_5873703_C_T	chr1_5873703_C_T	1	5873703
M00060		chr1_5893434_A_C	chr1_5893434_A_C	1	5893434

M00060	chr1_5893439_T_C	chr1_5893439_T_C	1	5893439
M00060	chr1_80150486_G_T	rs61773498	1	80150486
M00060	chr1_80168782_A_G	rs61773502	1	80168782
M00060	chr1_247884341_G_A	rs4925755	1	2.48E+08
M00060	chr2_3647568_T_C	rs6542618	2	3647568
M00060	chr2_188352616_T_A	rs201451808	2	1.88E+08
M00060	chr2_205607239_GA_G		2	2.06E+08
M00060	chr2_215154974_T_TC		2	2.15E+08
M00060	chr2_225249873_T_TTCTCTCTCTCTCTCTCTC		2	2.25E+08
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M00060	chr4_7416700_T_G	rs183013725	4	7416700
M00060	chr4_55544165_GACACAC_G		4	55544165
M00060	chr4_77385105_G_A	rs72648579	4	77385105
M00060	chr4_86878778_A_G	rs28716151	4	86878778
M00060	chr4_86879565_A_C	rs13137483	4	86879565
M00060	chr4_86892900_G_A	rs10015477	4	86892900
M00060	chr4_86893723_T_C	rs28650493	4	86893723
M00060	chr4_86894024_G_GTAGC		4	86894024
M00060	chr4_86897754_G_GAT		4	86897754
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M00060	chr4_140324889_G_GA		4	1.4E+08
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M00060	chr5_67099502_A_T	rs2545389	5	67099502
M00060	chr5_67116180_T_TTTTG		5	67116180
M00060	chr5_67123606_A_C	rs17221226	5	67123606
M00060	chr5_67123944_GCA_G		5	67123944
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M00060	chr5_111512492_G_A	rs13355101	5	1.12E+08
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M00060	chr6_52298100_C_T	rs58858262	6	52298100
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M00060	chr7_46904697_G_GAATAAATA		7	46904697
M00060	chr7_128578964_AAAAAC_A		7	1.29E+08
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M00060	chr10_29258456_TAA_T		10	29258456
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M00060	chr10_79586904_C_CAAATT		10	79586904
M00060	chr10_79587657_G_C	rs35454824	10	79587657
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M00060	chr10_79595387_C_A	chr10_79595387_C_A	10	79595387
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M00060	chr10_80168252_C_CG		10	80168252
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M00060	chr10_81405023_T_G	rs11189716	10	81405023
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M00060		chr22_19686480_CA_C		22	19686480
M00060		chr22_39723321_G_GAC		22	39723321
M00060		chr22_44802129_A_G	rs2239813	22	44802129
M00060		chr22_44811675_C_G	rs9626567	22	44811675
M00060	M00512	chr2_148776016_C_T	rs182478555	2	1.49E+08
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M00060	M33967	chr7_132060571_C_T	rs75502584	7	1.32E+08
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M00063	M00566	chr17_29688103_C_T	chr17_29688103_C_T	17	29688103
M00063	M00568	chr17_30560521_C_T	rs117536785	17	30560521
M00063	M00608	chr3_4952034_A_G	rs9867361	3	4952034
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M00063	M00608	chr3_4952219_G_A	rs9809597	3	4952219
M00063	M00608	chr3_4952656_G_A	rs7638383	3	4952656
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M00063	M15676	chr17_30560521_C_T	rs117536785	17	30560521
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M00063	M22116	chr17_30560521_C_T	rs117536785	17	30560521
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M00064	chr15_35250520_A_T	rs178530	15	35250520
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M00064	chr16_77355202_T_TTGTGTGTGTG		16	77355202

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M00537	M32306	chr4_173983664_G_GGAAA		4	1.74E+08
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M00568	chr4_95510517_C_T	chr4_95510517_C_T	4	95510517
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M00568		chr11_80938969_A_G	chr11_80938969_A_G	11	80938969
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M00568		chr11_80971148_A_G	chr11_80971148_A_G	11	80971148
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M00568		chr11_80974824_T_TAA		11	80974824
M00568		chr12_114683398_A_G	rs12366395	12	1.15E+08
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M00568		chr13_105904864_C_T	rs117267514	13	1.06E+08
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M00568		chr15_90816033_A_G	rs191591515	15	90816033
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M00568	M15749	chr11_28748838_A_T	rs116033730	11	28748838
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M00568	M40406	chr3_149585121_CGT_C		3	1.5E+08
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M00569	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M00569	M15749	chr11_28748838_A_T	rs116033730	11	28748838
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M00573	chr4_101199352_C_A	chr4_101199352_C_A	4	1.01E+08
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M00573	chr4_101202440_C_T	chr4_101202440_C_T	4	1.01E+08
M00573	chr4_101202463_G_C	rs1506802	4	1.01E+08
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M00573	chr6_114545699_G_T	chr6_114545699_G_T	6	1.15E+08
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M00573	chr12_1943593_G_A	rs11503102	12	1943593
M00573	chr12_1955363_A_G	rs150660202	12	1955363
M00573	chr12_46065812_T_A	rs144518082	12	46065812
M00573	chr12_75946746_T_C	chr12_75946746_T_C	12	75946746
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M00575		chr1_11250399_C_T	rs72633721	1	11250399
M00575		chr1_11294303_TTTA_T		1	11294303
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M00575		chr1_29069706_T_C	rs10753332	1	29069706
M00575		chr1_167220332_A_G	rs114019333	1	1.67E+08
M00575		chr1_167269659_T_A	rs151114851	1	1.67E+08
M00575		chr1_167362119_T_G	rs114082163	1	1.67E+08
M00575		chr1_167404976_A_G	rs114838580	1	1.67E+08
M00575		chr1_220965682_C_CAAAAAAAAA		1	2.21E+08
M00575		chr2_22023124_C_T	rs116278740	2	22023124
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M00575		chr2_32538636_A_G	rs150225384	2	32538636
M00575		chr3_46106453_C_CT		3	46106453
M00575		chr3_173156221_G_A	rs114212722	3	1.73E+08
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M00575		chr4_2230873_A_G	rs13434944	4	2230873
M00575		chr4_164864340_A_C	rs201867510	4	1.65E+08
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M00575		chr5_86079013_T_G	rs7708900	5	86079013
M00575		chr5_124213517_A_C	chr5_124213517_A_C	5	1.24E+08
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M00575		chr6_58128806_T_C	rs12662615	6	58128806
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M00575		chr6_58377787_G_A	rs12663709	6	58377787
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M00575	chr6_58409250_G_T	rs4410756	6	58409250
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M00575	chr7_89466979_C_A	rs10808077	7	89466979
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M00575	chr8_81321724_G_T	chr8_81321724_G_T	8	81321724
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M00575	chr8_81322308_C_T	rs7841723	8	81322308
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M00575		chr11_60398982_A_G	rs10897056	11	60398982
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M00594	M15749	chr11_28763332_G_A	rs17599292	11	28763332
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M00594	M15749	chr11_28764211_AC_A		11	28764211
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M00594	M15749	chr11_28786871_G_A	rs145159951	11	28786871
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M00594	M15749	chr11_28802677_T_C	rs139203298	11	28802677
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M00594	M15749	chr11_28819978_C_T	rs139626614	11	28819978
M00594	M15749	chr11_28820666_AG_A		11	28820666
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M00594	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M00594	M15749	chr11_28830623_A_AT		11	28830623
M00594	M21134	chr9_134199822_CTGAGG_C		9	1.34E+08
M00594	M32405	chr21_21450001_A_T	rs17806131	21	21450001
M00594	M37063	chr1_106339089_T_A	rs12118379	1	1.06E+08
M00594	M38116	chr11_3497743_G_A	rs180881354	11	3497743
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M00594	M40452	chr2_114543336_A_T	rs141449835	2	1.15E+08
M00594	M43374	chr8_2034453_T_A	rs149220075	8	2034453
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M00598		chr6_150827474_T_C	chr6_150827474_T_C	6	1.51E+08
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M00598		chr6_150835990_T_C	chr6_150835990_T_C	6	1.51E+08
M00598		chr6_155178262_C_T	chr6_155178262_C_T	6	1.55E+08
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M00598		chr7_78960569_A_G	rs117262928	7	78960569
M00598		chr7_132615927_A_ATCTCTCTCTCTC		7	1.33E+08
M00598		chr7_158970597_T_C	chr7_158970597_T_C	7	1.59E+08
M00598		chr7_158970737_G_A	rs2657388	7	1.59E+08
M00598		chr7_158985565_C_T	chr7_158985565_C_T	7	1.59E+08
M00598		chr7_158989868_C_A	chr7_158989868_C_A	7	1.59E+08
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M00598		chr8_120406555_A_ATGTG		8	1.2E+08
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M00598		chr8_121370196_T_C	rs4871185	8	1.21E+08
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M00598	chr11_35444090_A_T	rs143575706	11	35444090
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M00598	chr11_78646286_A_G	rs11237577	11	78646286
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M00598	chr11_79777329_T_TCAA		11	79777329
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M00598	chr13_108701874_C_A	rs9583282	13	1.09E+08
M00598	chr13_108702552_A_T	chr13_108702552_A_T	13	1.09E+08
M00598	chr13_108703139_A_AT		13	1.09E+08
M00598	chr13_108703742_C_A	rs9514882	13	1.09E+08
M00598	chr13_108704397_T_C	rs9284247	13	1.09E+08
M00598	chr13_108705272_T_C	chr13_108705272_T_C	13	1.09E+08
M00598	chr13_108705330_C_G	rs1926531	13	1.09E+08
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M00598	chr13_108705982_C_T	rs11617857	13	1.09E+08
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M00598		chr22_16647606_AAACCTG_A		22	16647606
M00598		chr22_49377537_C_CGGCTCTGGGACTTGAGTAAAGTTGA		22	49377537
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M00598	M01365	chr17_19491185_C_T	chr17_19491185_C_T	17	19491185
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M00601	M43026	chr21_27387212_C_T	rs2830899	21	27387212
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M00604	M01512	chr8_124669608_T_C	rs7016031	8	1.25E+08
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M01110	M22842	chr4_4708476_T_C	chr4_4708476_T_C	4	4708476
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M01110	M33949	chr9_7585374_T_C	rs75697025	9	7585374
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M01114	M38116	chr15_75351842_G_A	rs5745916	15	75351842
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M01114	M38116	chr15_75439451_C_T	rs142609583	15	75439451
M01114	M40173	chr4_31435052_G_A	rs78009635	4	31435052
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M01118		chr2_58483489_G_A	rs74576523	2	58483489
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M01118	chr6_164890257_C_A	chr6_164890257_C_A	6	1.65E+08
M01118	chr6_164890319_G_C	rs1511081	6	1.65E+08
M01118	chr6_164890811_C_A	rs57477959	6	1.65E+08
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M01118	chr6_164893371_A_G	rs1397638	6	1.65E+08
M01118	chr6_164894211_G_A	rs56297802	6	1.65E+08
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M01118	chr6_164899188_C_G	rs7739779	6	1.65E+08
M01118	chr7_153306746_A_G	rs7455960	7	1.53E+08
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M01118	chr7_153325782_T_C	chr7_153325782_T_C	7	1.53E+08
M01118	chr7_153330773_C_T	chr7_153330773_C_T	7	1.53E+08
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M01118	chr7_153337447_AT_A		7	1.53E+08
M01118	chr7_153337720_T_C	chr7_153337720_T_C	7	1.53E+08
M01118	chr7_153338115_A_G	rs78459129	7	1.53E+08
M01118	chr8_68028222_CAT_C		8	68028222
M01118	chr8_87240065_A_AAC		8	87240065
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M01118	chr8_126507343_C_A	rs6470450	8	1.27E+08
M01118	chr9_23941709_A_AAAC		9	23941709
M01118	chr9_71322475_T_C	rs34857205	9	71322475
M01118	chr10_30008372_T_C	rs1774243	10	30008372
M01118	chr10_114786911_G_C	rs808290	10	1.15E+08
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M01118	chr13_50597363_G_T	rs73487866	13	50597363
M01118	chr14_38898640_A_G	rs4399455	14	38898640
M01118	chr14_39018690_T_C	chr14_39018690_T_C	14	39018690
M01118	chr15_56492896_C_A	chr15_56492896_C_A	15	56492896
M01118	chr16_54512674_A_G	rs145154767	16	54512674
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M01118		chr18_4401794_C_A	rs11876790	18	4401794
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M01118		chr18_4403315_A_G	rs62087781	18	4403315
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M01118		chr18_32274506_C_T	rs117645595	18	32274506
M01118		chr18_32283353_T_A	rs189632177	18	32283353
M01118		chr18_32539161_A_G	rs112770252	18	32539161
M01118		chr18_32548270_A_G	rs187561267	18	32548270
M01118		chr18_32639894_A_G	rs116847131	18	32639894
M01118		chr18_32650710_C_A	rs146099427	18	32650710
M01118		chr18_40011942_C_CG		18	40011942
M01118		chr18_59083760_A_G	rs10871762	18	59083760
M01118		chr18_59083781_T_C	rs10871763	18	59083781
M01118		chr18_59083797_G_A	rs10871764	18	59083797
M01118		chr18_65998769_T_C	rs118129791	18	65998769
M01118		chr19_55434424_G_C	rs541901572	19	55434424
M01118		chr20_4747602_C_G	rs6084855	20	4747602
M01118		chr20_4750663_C_G	rs731002	20	4750663
M01118	M01284	chr18_59083781_T_C	rs10871763	18	59083781
M01118	M01303	chr17_14956802_C_A	rs117018960	17	14956802
M01118	M01336	chr6_65426246_G_C	rs75221155	6	65426246
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M01118	M01648	chr18_59083781_T_C	rs10871763	18	59083781
M01118	M01648	chr18_59083797_G_A	rs10871764	18	59083797
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M01118	M15443	chr18_59083781_T_C	rs10871763	18	59083781
M01118	M15443	chr18_59083797_G_A	rs10871764	18	59083797
M01118	M18362	chr4_29630244_T_A	rs1372310	4	29630244
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M01118	M33949	chr4_1807298_A_G	rs3135900	4	1807298
M01118	M34457	chr7_153330773_C_T	chr7_153330773_C_T	7	1.53E+08
M01118	M39583	chr11_13114410_C_A	rs139246612	11	13114410
M01118	M39583	chr11_13120928_A_C	rs117780221	11	13120928
M01118	M39583	chr11_13126550_G_A	rs150429244	11	13126550
M01118	M39587	chr3_55008303_A_G	rs62256164	3	55008303
M01118	M43027	chr7_153330773_C_T	chr7_153330773_C_T	7	1.53E+08
M01118	M43258	chr18_59083760_A_G	rs10871762	18	59083760
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M01118	M43258	chr18_59083797_G_A	rs10871764	18	59083797
M01118	M48152	chr18_59083760_A_G	rs10871762	18	59083760
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M01123	M44526	chr2_73871564_AT_A		2	73871564
M01124	M01498	chr2_188578548_G_T	rs556691858	2	1.89E+08
M01124	M15676	chr11_14411824_CT_C		11	14411824
M01124	M22116	chr11_14117313_A_G	rs72858661	11	14117313
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M01124	M37431	chr2_141980316_C_G	rs72852559	2	1.42E+08
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M01125	M01284	chr9_91038329_C_T	rs117352229	9	91038329
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M01125	M15142	chr14_84788992_C_G	rs61496202	14	84788992
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M01125	M18467	chr3_134078961_G_A	rs115793307	3	1.34E+08
M01125	M18467	chr9_83995279_A_C	rs144127025	9	83995279
M01125	M18467	chr19_28388164_C_G	rs147300539	19	28388164

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M01125	M18467	chr19_28641481_C_T	rs150430823	19	28641481
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M01125	M18467	chr20_34322936_T_G	rs149572251	20	34322936
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M01125	M18467	chr20_34475794_T_C	rs184372418	20	34475794
M01125	M18467	chr20_34679964_A_G	rs565044225	20	34679964
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M01126	M15142	chr14_84718909_C_A	rs78560637	14	84718909
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M01126	M15142	chr14_84725139_G_A	rs142516606	14	84725139
M01126	M15142	chr14_84730614_T_C	rs151055325	14	84730614
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M01126	M15142	chr14_84761260_A_G	rs139419908	14	84761260
M01126	M15142	chr14_84788992_C_G	rs61496202	14	84788992
M01126	M15142	chr14_84793539_A_G	rs73390797	14	84793539
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M01126	M18467	chr14_83248536_A_G	rs34289540	14	83248536
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M01126	M18467	chr19_28390378_C_G	rs55924904	19	28390378
M01126	M18467	chr19_28410534_A_G	rs150450343	19	28410534
M01126	M18467	chr20_34322936_T_G	rs149572251	20	34322936
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M01126	M33967	chr5_35968741_T_A	rs4869450	5	35968741
M01126	M33967	chr5_35970113_G_A	rs12659258	5	35970113
M01126	M33967	chr5_35974086_A_T	rs10070851	5	35974086
M01126	M33967	chr5_35975464_A_G	rs6861226	5	35975464
M01126	M33967	chr5_35977878_C_T	rs6873506	5	35977878
M01126	M33967	chr5_35977975_T_C	rs6895188	5	35977975
M01126	M33967	chr5_35983181_CA_C		5	35983181
M01126	M33967	chr7_132060571_C_T	rs75502584	7	1.32E+08

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M01128	M01827	chr17_14100832_A_AT		17	14100832
M01128	M15586	chr6_4112904_A_G	chr6_4112904_A_G	6	4112904
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M01128	M31555	chr7_44689392_C_T	rs549563472	7	44689392
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M01128	M39583	chr8_139706900_C_A	rs147597028	8	1.4E+08
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M01284		chr1_5076417_C_T	rs10915335	1	5076417
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M01284		chr4_143708027_AT_A		4	1.44E+08
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M01284		chr4_186346637_T_C	rs75440104	4	1.86E+08
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M01284		chr10_93166432_G_A	rs56871408	10	93166432
M01284		chr10_93175886_CG_C		10	93175886
M01284		chr10_93176888_C_A	rs7094240	10	93176888
M01284		chr10_93183256_G_C	rs4918865	10	93183256
M01284		chr10_93184031_T_C	rs10882171	10	93184031
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M01284		chr10_93186511_G_T	rs7903804	10	93186511
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M01284		chr12_14919192_A_G	rs148540861	12	14919192
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M01284		chr13_93500711_G_A	rs72640597	13	93500711
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M01284		chr20_8784562_CA_C		20	8784562
M01284		chr20_53701690_G_A	rs144530633	20	53701690
M01284		chr20_61332178_C_T	rs13037051	20	61332178
M01284	M01302	chr9_91038329_C_T	rs117352229	9	91038329
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M01284	M01512	chr1_159576288_G_A	rs7528267	1	1.6E+08
M01284	M01512	chr1_159604850_C_T	rs148692790	1	1.6E+08
M01284	M01512	chr6_152707601_T_C	rs116994288	6	1.53E+08

M01284	M01649	chr9_91038329_C_T	rs117352229	9	91038329
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M01284	M38665	chr15_86058245_C_T	rs6496307	15	86058245
M01284	M38665	chr15_86059073_G_A	rs1867471	15	86059073
M01284	M40173	chr3_39181766_C_G	rs75767227	3	39181766
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M01336	M02132	chr14_99523614_G_A	rs187222862	14	99523614
M01336	M02132	chr14_99524420_C_T	rs148371725	14	99524420
M01336	M18354	chr10_113951496_AT_A		10	1.14E+08
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M01336	M31891	chr8_56519414_AG_A		8	56519414
M01336	M34381	chr1_44411154_T_C	chr1_44411154_T_C	1	44411154
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M01408		chr13_42472676_A_T	rs9533117	13	42472676
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M01494	chr14_51309559_T_A	rs7161059	14	51309559
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M01494	chr14_51318932_T_C	rs12433384	14	51318932
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M01494	chr16_25853312_GTATA_G		16	25853312
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M01494	chr18_66294021_T_C	rs59611857	18	66294021
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M01494	chr19_16047820_A_G	chr19_16047820_A_G	19	16047820
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M01494	chr19_16059595_A_G	rs8099921	19	16059595
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M01494	chr21_41781633_A_T	rs75544535	21	41781633
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M01494		chr21_41782395_C_T	rs112335151	21	41782395
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M01494	M01510	chr10_93893511_G_GAAACAAAACAAAACAAAACA		10	93893511
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M01494	M40173	chr1_39456451_A_G	rs111425204	1	39456451
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M01494	M40173	chr2_127972123_T_C	rs142488037	2	1.28E+08
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M01498	M34387	chr3_180998342_C_G	rs4855000	3	1.81E+08
M01498	M36751	chr1_180577578_G_A	rs115129727	1	1.81E+08
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M01498	M42395	chr1_57636500_A_G	rs10889060	1	57636500
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M01500		chr4_95401653_A_G	chr4_95401653_A_G	4	95401653
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M01500	chr5_170138783_T_G	rs1469065	5	1.7E+08
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M01500	chr6_153837714_G_T	chr6_153837714_G_T	6	1.54E+08
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M01500	chr17_21304627_G_T	chr17_21304627_G_T	17	21304627
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M01500	chr21_26951601_C_A	rs139228571	21	26951601
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M01504	chr2_35128349_G_A	rs192030496	2	35128349
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M01510		chr20_7914131_G_A	rs117644263	20	7914131
M01510		chr21_10021512_A_AAAAT		21	10021512
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M01510	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M01566		chr1_89939835_A_T	rs76568195	1	89939835
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M01566		chr3_11839_G_A	chr3_11839_G_A	3	11839
M01566		chr3_112007128_T_C	rs12497699	3	1.12E+08
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M01566		chr5_5100450_C_T	rs115826410	5	5100450
M01566		chr5_169544857_CT_C		5	1.7E+08
M01566		chr6_66904029_T_C	rs142991057	6	66904029
M01566		chr7_67274454_T_C	rs58527194	7	67274454
M01566		chr8_130810347_TAC_T		8	1.31E+08
M01566		chr10_52028301_A_T	rs10762538	10	52028301
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M01566		chr13_44596106_G_A	rs144494560	13	44596106
M01566		chr15_55698879_G_A	rs72750515	15	55698879
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M01566		chr18_24748117_A_G	chr18_24748117_A_G	18	24748117
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M01573		chr1_179942885_T_A	rs526683	1	1.8E+08
M01573		chr1_179949979_C_T	chr1_179949979_C_T	1	1.8E+08
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M01576	chr20_29647434_G_T	chr20_29647434_G_T	20	29647434
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M01586	chr6_132677209_G_C	rs10484630	6	1.33E+08
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M01586		chr18_15470560_G_A	chr18_15470560_G_A	18	15470560
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M01586	M15749	chr11_28724433_C_T	rs115584406	11	28724433
M01586	M15749	chr11_28730924_T_G	rs146054756	11	28730924
M01586	M15749	chr11_28830501_A_G	rs58539483	11	28830501
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M01586	M39587	chr13_28945179_T_TTATA		13	28945179
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M01587	M18467	chr19_28410534_A_G	rs150450343	19	28410534
M01587	M18467	chr20_34322936_T_G	rs149572251	20	34322936
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M01587	M18467	chr20_34385797_GA_G		20	34385797
M01587	M18467	chr20_34475794_T_C	rs184372418	20	34475794
M01587	M40173	chr9_131293403_C_T	rs138101128	9	1.31E+08
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M01587	M46537	chr9_29372966_C_T	rs113378006	9	29372966
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M01589	M15142	chr3_84932893_C_A	rs79215181	3	84932893
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M01589	M15142	chr3_84949639_A_G	rs62250577	3	84949639
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M01591	M15749	chr11_28737829_T_TC		11	28737829
M01591	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M01591	M15749	chr11_28764211_AC_A		11	28764211
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M01591	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M01591	M15749	chr11_28830623_A_AT		11	28830623
M01591	M18467	chr19_28388164_C_G	rs147300539	19	28388164
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M01591	M20758	chr12_51415592_T_C	rs73095163	12	51415592
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M01591	M33487	chr18_32240722_C_T	rs117834459	18	32240722
M01591	M36713	chr9_4327980_A_AG		9	4327980
M01591	M36713	chr9_4328756_CATA_C		9	4328756
M01591	M37496	chr19_52428361_A_G	rs111290857	19	52428361
M01591	M38273	chr10_107303004_G_GAAGA		10	1.07E+08
M01591	M39587	chr2_138323439_T_C	rs115405304	2	1.38E+08
M01591	M40173	chr3_39177656_C_T	rs111917332	3	39177656
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M01594		chr1_39243627_T_C	rs2490947	1	39243627
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M01594	chr1_39431170_C_A	rs783817	1	39431170
M01594	chr1_39447971_C_G	rs783837	1	39447971
M01594	chr1_39452216_C_A	rs1746838	1	39452216
M01594	chr1_39456631_A_T	rs783841	1	39456631
M01594	chr1_39457318_G_T	chr1_39457318_G_T	1	39457318
M01594	chr1_39471389_C_A	rs112722268	1	39471389
M01594	chr1_39473705_A_ACT		1	39473705
M01594	chr1_39474029_A_G	rs2995514	1	39474029
M01594	chr1_114345790_G_T	chr1_114345790_G_T	1	1.14E+08
M01594	chr1_225431220_C_T	rs115219460	1	2.25E+08
M01594	chr2_57702141_T_C	rs144585642	2	57702141
M01594	chr2_227243747_A_G	rs4292087	2	2.27E+08
M01594	chr3_76215362_C_T	rs139206599	3	76215362
M01594	chr3_98767707_T_A	rs2028392	3	98767707
M01594	chr3_98767796_T_C	rs9832986	3	98767796

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M01594		chr4_25415749_G_A	rs10517073	4	25415749
M01594		chr4_25417661_T_C	rs9174	4	25417661
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M01594		chr8_119792153_T_C	rs201098683	8	1.2E+08
M01594		chr9_37551528_T_A	rs4878698	9	37551528
M01594		chr9_37551684_A_AGGTCT		9	37551684
M01594		chr9_37567117_C_T	rs16934289	9	37567117
M01594		chr9_137779247_G_A	rs79353591	9	1.38E+08
M01594		chr10_130822993_G_A	rs141876087	10	1.31E+08
M01594		chr11_56654736_C_G	rs11228704	11	56654736
M01594		chr12_6379774_C_CA		12	6379774
M01594		chr12_16662827_GTCTGTCTATCTATCTA_G		12	16662827
M01594		chr13_81673325_TTAGA_T		13	81673325
M01594		chr14_27348550_A_T	rs117496106	14	27348550
M01594		chr14_27388053_C_T	rs116909444	14	27388053
M01594		chr14_27563097_A_T	rs116882402	14	27563097
M01594		chr14_27673364_C_A	rs117248432	14	27673364
M01594		chr18_45130167_C_CT		18	45130167
M01594		chr20_58778084_T_TTGAA		20	58778084
M01594	M35107	chr3_98767707_T_A	rs2028392	3	98767707
M01594	M35107	chr3_98767796_T_C	rs9832986	3	98767796
M01594	M35635	chr11_22843378_G_T	rs113593294	11	22843378
M01594	M35635	chr11_22850803_G_C	rs78969307	11	22850803
M01594	M38672	chr14_48104033_T_C	rs62011985	14	48104033
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M01594	M39587	chr12_45222123_C_T	rs139519782	12	45222123
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M01603	M02150	chr9_40580581_C_T	chr9_40580581_C_T	9	40580581
M01603	M02150	chr11_83014634_A_AAAAGAAAGAAAGAAAG		11	83014634
M01603	M15135	chr2_40570182_T_G	rs189531301	2	40570182
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M01603	M17895	chr1_8275828_G_A	rs139911739	1	8275828
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M01603	M18354	chr1_120350444_A_T	chr1_120350444_A_T	1	1.2E+08
M01603	M22176	chr8_102525604_A_C	rs147888691	8	1.03E+08
M01603	M22176	chr17_14978332_C_T	rs9674445	17	14978332
M01603	M27673	chr11_83014634_A_AAAAGAAAGAAAGAAAG		11	83014634
M01603	M33443	chr2_18227698_C_T	chr2_18227698_C_T	2	18227698
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M01603	M33953	chr9_40580581_C_T	chr9_40580581_C_T	9	40580581
M01603	M35136	chr11_133702265_C_T	rs79448583	11	1.34E+08
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M01603	M39626	chr2_32723503_G_A	rs77361423	2	32723503
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M01603	M40173	chr2_184165846_A_G	rs115392658	2	1.84E+08
M01603	M40173	chr2_184206845_C_G	rs140352918	2	1.84E+08
M01603	M40173	chr10_106883417_A_AT		10	1.07E+08
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M01603	M40173	chr11_67624184_C_T	chr11_67624184_C_T	11	67624184
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M01603	M42971	chr9_77445570_A_G	rs551102697	9	77445570
M01603	M43027	chr1_8275828_G_A	rs139911739	1	8275828
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M01638		chr1_10707945_T_C	rs616519	1	10707945
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M01638	chr6_45555896_GT_G		6	45555896
M01638	chr6_73376991_TA_T		6	73376991
M01638	chr6_73403469_CAAAAGA_C		6	73403469
M01638	chr7_10599205_G_C	rs6980309	7	10599205
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M01638		chr14_69739200_A_AT		14	69739200
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M01642	M44872	chr5_87245942_A_G	rs16902602	5	87245942
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M01643	M18467	chr11_20737870_A_G	rs1996623	11	20737870
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M01643	M18467	chr11_20741821_G_T	rs74776516	11	20741821
M01643	M18467	chr14_97560792_G_A	rs117474851	14	97560792
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M01643	M33447	chr1_120850451_C_CA		1	1.21E+08
M01643	M33939	chr11_111319553_G_A	rs183793756	11	1.11E+08
M01643	M33939	chr11_111321102_T_G	rs185451554	11	1.11E+08
M01643	M33942	chr3_43773868_G_A	rs150931997	3	43773868
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M01643	M38625	chr2_6306870_G_A	rs113724123	2	6306870
M01643	M40406	chr18_190402_CG_C		18	190402
M01643	M40406	chr18_205474_T_C	rs186974871	18	205474
M01643	M43374	chr8_2034453_T_A	rs149220075	8	2034453
M01643	M44675	chr11_20737005_G_A	rs111858820	11	20737005
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M01643	M45970	chr8_130340948_TTTTTGTTTTG_T		8	1.3E+08
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M01644		chr1_111669040_A_AAG		1	1.12E+08
M01644		chr2_51039303_TTC_T		2	51039303
M01644		chr2_204936114_G_T	chr2_204936114_G_T	2	2.05E+08
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M01644		chr3_4757134_C_G	rs9878124	3	4757134
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M01644		chr4_5508229_T_C	rs62299786	4	5508229
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M01644		chr5_54958301_A_C	rs6880373	5	54958301
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M01644	chr6_77351456_AT_A		6	77351456
M01644	chr6_136381919_C_CACACACAG		6	1.36E+08
M01644	chr7_149950724_G_T	rs796847632	7	1.5E+08
M01644	chr7_150530059_C_T	rs10248527	7	1.51E+08
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M01644	chr7_150562201_C_T	chr7_150562201_C_T	7	1.51E+08
M01644	chr7_150562311_A_G	chr7_150562311_A_G	7	1.51E+08
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M01644	chr7_150563334_T_A	rs6464081	7	1.51E+08
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M01648	M32350	chr16_6101361_A_T	rs12597236	16	6101361
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M01651	M15749	chr11_28830623_A_AT		11	28830623
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M01868	M33442	chr8_71027947_T_A	rs3110259	8	71027947
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M01868	M33442	chr8_71043592_G_A	rs4074909	8	71043592
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M01868	M36713	chr2_37981827_CA_C		2	37981827
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M01868	M37076	chr6_25607781_C_T	chr6_25607781_C_T	6	25607781
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M01898	M37076	chr6_25658991_G_A	rs9467552	6	25658991
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M01899		chr13_51993233_T_C	rs56219214	13	51993233
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M01899		chr14_92780298_A_G	rs144205946	14	92780298
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M01899		chr18_34261616_CTGTG_C		18	34261616
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M01899		chr19_38221539_C_CA		19	38221539
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M02125	M31539	chr15_22284414_TAA_T		15	22284414
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M02125	M33443	chr3_40004214_T_TC		3	40004214
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M02132	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M02132	M15749	chr11_28805472_A_G	chr11_28805472_A_G	11	28805472
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M02132	M15749	chr11_28821095_T_A	rs17600277	11	28821095
M02132	M15749	chr11_28821834_A_G	rs147562181	11	28821834
M02132	M15749	chr11_28827543_T_TG		11	28827543
M02132	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M02132	M15749	chr11_28830623_A_AT		11	28830623
M02132	M32405	chr21_21450001_A_T	rs17806131	21	21450001
M02132	M35136	chr5_132469172_T_TCAGAAG		5	1.32E+08
M02132	M37496	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
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M02132	M38625	chr17_33528167_G_GGTGTGTGTGTGTGTGTGTGTGT		17	33528167
M02132	M39583	chr18_59710927_T_C	rs77082887	18	59710927
M02132	M40173	chr3_39181766_C_G	rs75767227	3	39181766
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M02132	M43374	chr8_2034453_T_A	rs149220075	8	2034453
M02137	M15730	chr21_32782056_G_C	rs192160805	21	32782056
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M02137	M36749	chr4_31098944_G_A	rs35365933	4	31098944
M02137	M36749	chr4_31099848_G_A	rs34969511	4	31099848
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M02137	M36749	chr4_31177806_T_C	rs61795400	4	31177806
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M02137	M43374	chr4_31217357_T_A	rs10004493	4	31217357
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M02150	chr5_24397077_C_T	rs189585643	5	24397077
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M02150	chr5_59011283_G_A	rs182974865	5	59011283
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M02150	chr6_81581115_T_G	rs535415316	6	81581115
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M02150	chr11_78981838_T_C	rs116436276	11	78981838
M02150	chr11_78985812_A_G	rs17754424	11	78985812
M02150	chr11_78988376_G_C	rs117561022	11	78988376
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M02150	chr11_78993084_T_C	rs17827476	11	78993084
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M02150	chr13_46882229_T_TA		13	46882229
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M02150	chr14_18611385_T_C	rs201721779	14	18611385
M02150	chr14_25971629_A_G	rs75190483	14	25971629
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M02150	chr14_47468735_G_C	rs137906929	14	47468735
M02150	chr14_47471307_A_T	rs188498314	14	47471307
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M02150	chr15_91920257_G_C	rs10775254	15	91920257
M02150	chr15_91921534_A_T	rs8035875	15	91921534
M02150	chr15_91934648_A_G	rs7179958	15	91934648
M02150	chr15_91943538_A_G	rs8040407	15	91943538
M02150	chr15_91944020_G_A	rs7179615	15	91944020
M02150	chr15_91944084_G_A	rs7179786	15	91944084
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M02150	chr15_100359187_CAG_C		15	1E+08
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M02150	chr16_82035292_T_C	rs4445895	16	82035292
M02150	chr16_82047900_T_C	rs8044837	16	82047900
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M02150		chr16_82072694_G_A	chr16_82072694_G_A	16	82072694
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M02150		chr16_82077674_C_A	rs67777781	16	82077674
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M02150		chr18_59256861_C_T	rs6567075	18	59256861
M02150		chr18_59257632_G_A	chr18_59257632_G_A	18	59257632
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M02150		chr19_6997377_G_A	rs12983111	19	6997377
M02150		chr20_6503920_G_A	rs150509679	20	6503920
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M02150		chr20_11466168_C_T	rs145914409	20	11466168
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M02150		chr22_35446481_G_C	chr22_35446481_G_C	22	35446481
M02150	M15135	chr1_178858273_T_G	rs12757741	1	1.79E+08
M02150	M15586	chr10_2799337_T_C	rs12761208	10	2799337
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M02150	M15872	chr11_56822504_C_T	rs117950428	11	56822504
M02150	M18362	chr8_3929702_C_A	rs538990859	8	3929702
M02150	M18467	chr13_114291460_A_C	rs41291209	13	1.14E+08
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M02150	M32405	chr21_21450001_A_T	rs17806131	21	21450001
M02150	M34381	chr8_17653106_G_A	rs183655940	8	17653106
M02150	M34381	chr8_17667478_G_A	rs191559131	8	17667478
M02150	M37443	chr19_50279449_C_G	rs533563260	19	50279449
M02150	M38271	chr3_106603761_G_A	rs76752036	3	1.07E+08
M02150	M40452	chr12_128675838_AAGAT_A		12	1.29E+08
M02150	M43026	chr5_10459794_C_A	rs17815577	5	10459794
M02150	M48149	chr3_194541251_C_G	rs71317907	3	1.95E+08
M02150	M48149	chr3_194542023_T_C	rs7611593	3	1.95E+08

M02150	M48149	chr3_194542108_A_G	rs9882969	3	1.95E+08
M02183	M05341	chr6_134003757_T_C	rs190985588	6	1.34E+08
M02183	M05341	chr6_134010524_G_A	rs140122981	6	1.34E+08
M02183	M05341	chr6_134021593_C_T	rs116886929	6	1.34E+08
M02183	M05341	chr6_134043420_G_A	rs146433169	6	1.34E+08
M02183	M05341	chr16_52512019_C_A	rs45597135	16	52512019
M02183	M05341	chr16_52523456_T_C	rs45565432	16	52523456
M02183	M05341	chr16_52541823_A_G	rs45510798	16	52541823
M02183	M05341	chr16_52571857_T_C	rs147470005	16	52571857
M02183	M15142	chr1_210746580_T_A	rs79204591	1	2.11E+08
M02183	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M02183	M21127	chr10_96024839_G_A	rs77537360	10	96024839
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M02183	M32350	chr6_54452828_G_A	rs243784	6	54452828
M02183	M32350	chr6_54458973_G_A	chr6_54458973_G_A	6	54458973
M02183	M35678	chr6_55614828_A_G	rs62404311	6	55614828
M02183	M35678	chr6_55658283_C_T	rs62406163	6	55658283
M02183	M43847	chr8_38737249_C_T	rs73609100	8	38737249
M02183	M43847	chr8_38739802_G_A	rs57947571	8	38739802
M02183	M43847	chr8_38744029_G_A	rs79563235	8	38744029
M02183	M46142	chr1_230784317_A_G	rs12035692	1	2.31E+08
M02183	M52294	chr18_56069945_A_G	rs111934745	18	56069945
M02342	M32388	chr14_32269530_C_T	rs542420502	14	32269530
M02342	M32388	chr14_32305137_A_G	rs74450017	14	32305137
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M02342	M40173	chr2_183868022_A_T	rs78758496	2	1.84E+08
M02734		chr1_9074548_C_A	rs77917183	1	9074548
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M02734		chr3_124278458_GGTGT_G		3	1.24E+08
M02734		chr3_129007423_T_C	rs9821769	3	1.29E+08
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M02734	chr13_37107208_T_C	rs3852619	13	37107208
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M02734	chr18_10393848_T_A	rs206531	18	10393848
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M02734	M20676	chr8_63143297_G_C	rs4486195	8	63143297
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M02734	M20676	chr8_63148668_G_T	rs12542182	8	63148668
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M02829	M15749	chr11_28805472_A_G	chr11_28805472_A_G	11	28805472
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M02829	M15749	chr11_28821095_T_A	rs17600277	11	28821095
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M02829	M15749	chr11_28830623_A_AT		11	28830623
M02829	M15749	chr13_39085807_C_T	rs180925159	13	39085807
M02829	M33959	chr8_124346949_C_T	rs116897232	8	1.24E+08

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M02829	M43493	chr7_153817333_A_G	rs2450038	7	1.54E+08
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M03127		chr1_225909551_CAAACAAAACA_C		1	2.26E+08
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M03127		chr2_8072771_C_T	rs114294099	2	8072771
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M03127		chr2_80814008_AT_A		2	80814008
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M03127		chr4_147594517_C_T	rs11735245	4	1.48E+08
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M03127		chr4_147598203_G_A	rs11723354	4	1.48E+08
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M03127		chr5_2907387_A_G	rs12055274	5	2907387
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M03127		chr6_65475148_C_CAT		6	65475148

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M03127	chr7_75468759_T_G	rs144718784	7	75468759
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M03127	chr16_77962824_C_T	rs640337	16	77962824
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M03127	chr16_77974928_A_T	rs619599	16	77974928
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M03127	chr17_50792850_G_C	rs4794184	17	50792850
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M03127	chr17_50793141_C_G	rs17564787	17	50793141
M03127	chr17_50793873_G_A	rs7342913	17	50793873
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M03127		chr18_55253719_C_T	chr18_55253719_C_T	18	55253719
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M03127		chr21_30341089_G_A	rs2832814	21	30341089
M03127		chr21_45930610_C_A	rs78873422	21	45930610
M03127		chr22_44917111_G_A	rs16993093	22	44917111
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M03127	M15749	chr11_28740427_A_G	rs17598593	11	28740427
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M03127	M15749	chr11_28748838_A_T	rs116033730	11	28748838
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M03127	M15749	chr11_28763332_G_A	rs17599292	11	28763332
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M03127	M15749	chr11_28830501_A_G	rs58539483	11	28830501
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M03127	M32398	chr16_77974928_A_T	rs619599	16	77974928
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M03127	M32504	chr5_163373111_C_T	rs140645544	5	1.63E+08
M03127	M33442	chr7_41440440_G_A	rs150319336	7	41440440
M03127	M40173	chr2_183868022_A_T	rs78758496	2	1.84E+08
M03127	M40173	chr2_184048830_C_T	rs184846813	2	1.84E+08
M03127	M40173	chr2_184063017_T_C	rs141549346	2	1.84E+08

M03127	M40173	chr2_184119939_T_C	rs140434481	2	1.84E+08
M03127	M40173	chr2_184189051_G_A	rs114954251	2	1.84E+08
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M03127	M40173	chr11_13797387_G_A	rs60223637	11	13797387
M03127	M43374	chr8_2022361_A_G	rs80084696	8	2022361
M03127	M46336	chr1_187856526_C_G	rs12732452	1	1.88E+08
M03127	M46336	chr1_187863215_T_C	chr1_187863215_T_C	1	1.88E+08
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M03127	M46336	chr1_187876696_C_A	rs7533474	1	1.88E+08
M03141	M15872	chr11_24095960_GTGTCTATA_G		11	24095960
M03141	M18467	chr5_159207500_C_T	rs191550810	5	1.59E+08
M03141	M33447	chr11_123492865_T_TACACAC		11	1.23E+08
M03141	M38749	chr1_107684508_T_A	rs4131724	1	1.08E+08
M03141	M38749	chr1_107685253_A_T	rs56218553	1	1.08E+08
M03141	M39583	chr6_53420835_TA_T		6	53420835
M03141	M39587	chr12_98980501_C_T	rs145588954	12	98980501
M03147	M18467	chr13_39650216_CTT_C		13	39650216
M03147	M20758	chr21_35403023_C_CGTGTGTGT		21	35403023
M03147	M32504	chr5_163373111_C_T	rs140645544	5	1.63E+08
M03147	M37443	chr7_30820703_G_A	rs62446950	7	30820703
M03147	M37443	chr7_30821861_C_A	rs62446951	7	30821861
M03147	M37443	chr7_30825518_C_T	rs7797390	7	30825518
M03147	M37443	chr7_30827274_C_T	rs62449064	7	30827274
M03147	M37443	chr7_30828937_T_C	rs62449065	7	30828937
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M03155	M15749	chr11_28724433_C_T	rs115584406	11	28724433
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M03155	M15749	chr11_28763332_G_A	rs17599292	11	28763332
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M03155	M15749	chr11_28764211_AC_A		11	28764211
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M03155	M15749	chr11_28770690_C_T	rs116453715	11	28770690
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M03155	M15749	chr11_28830501_A_G	rs58539483	11	28830501
M03155	M18467	chr20_34241743_T_C	rs148991290	20	34241743
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M03155	M18467	chr20_34385793_G_T	rs182564926	20	34385793
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M03155	M18467	chr20_34475794_T_C	rs184372418	20	34475794
M03155	M18467	chr20_34765125_A_G	rs527422608	20	34765125
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M03155	M32504	chr20_34322936_T_G	rs149572251	20	34322936
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M03155	M33950	chr2_5841298_C_T	rs74578176	2	5841298
M03155	M33959	chr9_136051038_G_A	rs564225941	9	1.36E+08
M03155	M34424	chr19_49547791_C_T	rs184214189	19	49547791
M03155	M40700	chr8_76919734_A_G	rs76880012	8	76919734
M03155	M40700	chr8_76946020_C_G	rs117013339	8	76946020
M03155	M40700	chr8_76955487_T_C	rs141165168	8	76955487
M03155	M44526	chr3_29509047_G_T	rs9990294	3	29509047
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M04970		chr1_39946763_G_A	rs115385066	1	39946763
M04970		chr1_82427843_A_G	rs12144709	1	82427843
M04970		chr1_82438960_T_A	rs146365423	1	82438960
M04970		chr1_82441254_A_G	rs12123961	1	82441254
M04970		chr1_82448043_T_C	rs11163476	1	82448043
M04970		chr1_82451926_ATTTCTTC_A		1	82451926
M04970		chr1_82459775_T_A	rs61765086	1	82459775
M04970		chr1_82494039_T_C	rs2209692	1	82494039
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M04970		chr1_82494841_C_T	rs10874313	1	82494841
M04970		chr1_82494870_A_G	rs10782785	1	82494870
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M04970		chr1_82498940_AT_A		1	82498940
M04970		chr1_82499181_G_T	rs7523716	1	82499181
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M04970		chr1_82499476_T_C	rs10747397	1	82499476
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M04970		chr2_6587302_G_A	rs71436153	2	6587302
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M05341	M48149	chr5_145969735_T_TA		5	1.46E+08
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M05341	M48340	chr4_91028527_G_A	chr4_91028527_G_A	4	91028527
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M12115		chr19_51698673_T_C	rs78416496	19	51698673
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M12115		chr19_51712403_G_A	rs78566523	19	51712403
M12142	M15135	chr13_85814320_T_A	rs9575968	13	85814320
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M12142	M15135	chr13_85816659_G_A	rs9575969	13	85816659
M12142	M15135	chr13_85819255_CT_C		13	85819255

M12142	M15135	chr13_85886415_TTTTGTGTGTGTGTG_T		13	85886415
M12142	M15135	chr13_85906083_T_C	rs1411304	13	85906083
M12142	M15135	chr13_85906087_A_G	rs1411305	13	85906087
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M12142	M15135	chr13_85919566_A_C	rs4468496	13	85919566
M12142	M15135	chr13_85922153_G_A	rs9531887	13	85922153
M12142	M15749	chr6_54212792_A_G	rs1539440	6	54212792
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M12142	M17895	chr11_129034850_GT_G		11	1.29E+08
M12142	M21169	chr15_41500105_C_T	rs34104137	15	41500105
M12142	M31938	chr2_232103825_G_A	rs2060971	2	2.32E+08
M12142	M31938	chr2_232124515_G_C	rs3103266	2	2.32E+08
M12142	M31938	chr2_232125476_A_G	chr2_232125476_A_G	2	2.32E+08
M12142	M31938	chr2_232215585_G_A	chr2_232215585_G_A	2	2.32E+08
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M12142	M32401	chr20_61956746_T_TC		20	61956746
M12142	M34404	chr13_68465251_T_C	rs12870911	13	68465251
M12142	M35718	chr10_17295643_G_A	rs370589009	10	17295643
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M12142	M40173	chr2_183904097_T_A	rs74383367	2	1.84E+08
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M15135		chr14_102061055_G_A	rs1190616	14	1.02E+08
M15135		chr15_52994620_G_A	rs75655517	15	52994620
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M15135		chr22_16133866_A_G	chr22_16133866_A_G	22	16133866
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M15135	M34396	chr7_63173512_GT_G		7	63173512
M15135	M36751	chr6_149901968_C_CTATG		6	1.5E+08
M15135	M37069	chr1_178858273_T_G	rs12757741	1	1.79E+08
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M15136		chr1_5367506_G_A	rs34603599	1	5367506
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M15136		chr1_5375328_A_G	rs147035773	1	5375328
M15136		chr1_5378678_T_C	rs142172739	1	5378678
M15136		chr1_39580167_AT_A		1	39580167
M15136		chr1_55527082_A_G	rs356085	1	55527082
M15136		chr2_129787733_T_C	rs138329051	2	1.3E+08
M15136		chr2_157708718_T_C	rs190777066	2	1.58E+08
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M15136		chr2_157820474_G_A	rs192471852	2	1.58E+08

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M15136	chr2_173363148_A_G	rs767074	2	1.73E+08
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M15136	chr3_17497087_GAC_G		3	17497087
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M15136	chr3_139265932_A_ATG		3	1.39E+08
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M15136	chr4_67852418_A_G	rs116448182	4	67852418
M15136	chr4_70125026_G_T	rs111780715	4	70125026
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M15136	chr5_176192336_C_T	rs13165735	5	1.76E+08
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M15136		chr16_84473930_A_C	rs79041741	16	84473930
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M15136		chr19_41417894_T_C	rs11883104	19	41417894
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M15136		chr21_44602285_C_A	rs384645	21	44602285
M15136		chr22_45558667_A_AAC		22	45558667
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M15142	M44675	chr4_90493813_GC_G		4	90493813
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M15336		chr13_88802321_C_T	rs66931074	13	88802321
M15336		chr14_21870354_G_A	rs12586404	14	21870354
M15336		chr15_58958929_CT_C		15	58958929
M15336		chr15_80599700_G_A	rs74527782	15	80599700
M15336		chr18_22078495_C_T	rs4800355	18	22078495
M15336		chr18_23394571_T_C	rs72876954	18	23394571
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M15336		chr21_44718328_G_C	rs1865346	21	44718328
M15336		chr22_38159719_T_C	chr22_38159719_T_C	22	38159719
M15443	M32455	chr11_95336510_T_C	rs74426348	11	95336510
M15443	M38749	chr1_86853136_C_T	rs559491	1	86853136

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M15443	M39583	chr18_59710927_T_C	rs77082887	18	59710927
M15443	M42398	chr3_79372719_G_C	rs7627116	3	79372719
M15443	M48428	chr16_26785496_C_CT		16	26785496
M15500		chr1_23256758_C_T	rs202098687	1	23256758
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M15500		chr4_79779335_A_G	rs6815018	4	79779335
M15500		chr4_172389629_G_C	rs150057400	4	1.72E+08
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M15500		chr5_129791546_CA_C		5	1.3E+08
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M15500		chr7_85420894_G_A	chr7_85420894_G_A	7	85420894
M15500		chr8_133401461_G_A	rs112241205	8	1.33E+08
M15500		chr9_8841712_T_TAAA		9	8841712
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M15500		chr13_46709739_C_T	rs9534470	13	46709739
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M15500		chr13_46710631_G_A	rs17347740	13	46710631
M15500		chr15_17034151_C_T	chr15_17034151_C_T	15	17034151
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M15500		chr15_96716755_T_C	rs4558382	15	96716755
M15500		chr16_19486620_A_AC		16	19486620
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M15500		chr16_19497983_C_G	rs72785332	16	19497983
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M15872	chr22_26085538_A_ACACACACACACACC		22	26085538
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M15872	chr22_44808992_A_AT		22	44808992
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M15958	M32405	chr21_21485216_AT_A		21	21485216
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M15958	M38273	chr10_107303004_G_GAAGA		10	1.07E+08
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M15958	M48152	chr10_2799337_T_C	rs12761208	10	2799337
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M17747		chr4_163324253_T_C	rs9764	4	1.63E+08
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M17747		chr6_154098777_T_G	rs680787	6	1.54E+08
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M17747		chr6_154100594_T_C	chr6_154100594_T_C	6	1.54E+08

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M17747	chr6_154125587_T_G	rs676252	6	1.54E+08
M17747	chr6_154126410_A_G	rs497315	6	1.54E+08
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M17747	chr6_154127002_G_A	rs523731	6	1.54E+08
M17747	chr6_154128804_C_A	chr6_154128804_C_A	6	1.54E+08
M17747	chr6_154130262_G_A	rs506320	6	1.54E+08
M17747	chr6_154130639_C_T	rs642393	6	1.54E+08
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M17747	chr6_154134560_A_T	rs485399	6	1.54E+08
M17747	chr6_154135053_C_T	chr6_154135053_C_T	6	1.54E+08
M17747	chr6_154135904_T_A	rs636572	6	1.54E+08
M17747	chr6_154137704_A_G	rs13194785	6	1.54E+08
M17747	chr6_154137816_A_C	rs13195018	6	1.54E+08
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M17747	chr6_154139128_C_A	rs12528415	6	1.54E+08
M17747	chr6_154139988_A_G	rs13203628	6	1.54E+08
M17747	chr6_154140139_T_C	rs12660296	6	1.54E+08
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M17747	chr10_58101350_T_G	rs2134359	10	58101350
M17747	chr10_58107042_A_G	rs12572523	10	58107042
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M17747		chr10_58131624_A_G	rs74603710	10	58131624
M17747		chr10_58132958_T_C	rs76396599	10	58132958
M17747		chr10_113729891_T_G	rs10787498	10	1.14E+08
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M17747		chr14_42296906_A_AT		14	42296906
M17747		chr14_77081993_C_G	rs112814633	14	77081993
M17747		chr15_35643323_G_A	rs142602490	15	35643323
M17747		chr16_52457554_A_G	rs542388013	16	52457554
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M17747	M33444	chr14_42296906_A_AT		14	42296906
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M17747	M43374	chr4_31059150_G_T	rs61794080	4	31059150
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M17747	M43374	chr4_31220925_A_G	rs77525743	4	31220925
M17747	M43374	chr4_31221267_A_G	rs12649604	4	31221267
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M17747	M43374	chr4_31249118_G_C	rs12649706	4	31249118
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M17747	M43374	chr4_31250020_G_A	rs7691599	4	31250020
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M17747	M43374	chr4_31251100_C_T	rs6856190	4	31251100
M17747	M43374	chr4_31251472_T_TAA		4	31251472
M17747	M43374	chr4_31251514_C_T	rs78854645	4	31251514
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M17747	M43374	chr4_31251694_T_C	rs114407554	4	31251694
M17747	M43374	chr4_31252165_G_T	rs4586887	4	31252165
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M17747	M45970	chr8_8192911_T_G	chr8_8192911_T_G	8	8192911

M17769	M27722	chr9_136059937_G_A	rs138208625	9	1.36E+08
M17769	M32415	chr11_114152485_G_T	chr11_114152485_G_	11	1.14E+08
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M17805		chr1_118395329_G_T	rs4659081	1	1.18E+08
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M17805		chr3_23645222_C_T	rs62252608	3	23645222
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M17805		chr3_38369744_G_A	rs112106535	3	38369744
M17805		chr3_43135822_C_T	rs115116198	3	43135822
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M17805		chr4_123839020_T_A	rs34540001	4	1.24E+08
M17805		chr4_123897954_T_C	rs7691701	4	1.24E+08
M17805		chr4_123901521_G_A	chr4_123901521_G_A	4	1.24E+08
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M17805		chr4_123912619_A_T	rs3097927	4	1.24E+08
M17805		chr4_123912762_T_G	rs3113376	4	1.24E+08
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M17805	chr5_83664915_A_G	chr5_83664915_A_G	5	83664915
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M17805	chr5_143272944_CT_C		5	1.43E+08
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M17805	chr6_2273023_CA_C		6	2273023
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M17805	chr7_20053052_G_A	rs6948596	7	20053052
M17805	chr7_26059318_T_C	rs146490015	7	26059318
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M17805	chr8_52666171_T_TA		8	52666171
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M17805	chr9_127489556_CAG_C		9	1.27E+08
M17805	chr9_127490007_C_T	rs1317843	9	1.27E+08
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M17805	chr10_24603921_G_A	rs140123257	10	24603921
M17805	chr10_24605293_A_G	rs72784275	10	24605293
M17805	chr10_24654340_CCT_C		10	24654340
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M17805	chr10_24682669_A_T	rs72784293	10	24682669
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M17805	chr10_24694461_G_A	rs61032267	10	24694461
M17805	chr10_24733900_T_G	chr10_24733900_T_G	10	24733900

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M17805		chr10_132493199_G_C	rs144115587	10	1.32E+08
M17805		chr11_5933738_G_A	rs117773727	11	5933738
M17805		chr11_6016920_A_G	rs117243782	11	6016920
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M17805		chr11_6030025_G_A	rs79319688	11	6030025
M17805		chr11_100875333_G_A	rs144821073	11	1.01E+08
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M17805		chr12_53000180_A_G	rs7306523	12	53000180
M17805		chr12_53013054_A_G	rs6580924	12	53013054
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M17805		chr12_53043071_T_C	rs10876400	12	53043071
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M17805		chr13_37177485_A_G	rs1932811	13	37177485
M17805		chr16_1942811_A_T	rs9928139	16	1942811
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M17805		chr16_75769317_T_G	rs12446035	16	75769317
M17805		chr16_88427532_G_A	rs145178398	16	88427532
M17805		chr18_74497091_T_G	rs111525744	18	74497091
M17805		chr20_43559410_T_C	rs7262931	20	43559410
M17805		chr21_41827208_G_A	rs76291974	21	41827208
M17805		chr21_41843111_T_TTTTG		21	41843111
M17805		chr21_41846110_G_A	rs75892511	21	41846110
M17805		chr22_17516008_G_C	chr22_17516008_G_C	22	17516008
M17805		chr22_17542247_A_G	rs62623401	22	17542247
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M17805	M21158	chr3_101331702_G_A	chr3_101331702_G_A	3	1.01E+08
M17805	M21158	chr3_101363717_A_G	rs6804397	3	1.01E+08
M17805	M21158	chr3_101416700_C_A	rs12486738	3	1.01E+08
M17805	M21158	chr3_101484613_A_G	rs6773410	3	1.01E+08
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M17805	M33961	chr19_6904479_C_A	chr19_6904479_C_A	19	6904479
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M17805	M37076	chr12_18914783_TG_T		12	18914783
M17805	M39587	chr17_71066160_G_A	rs72868331	17	71066160
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M17895	M43374	chr8_2034453_T_A	rs149220075	8	2034453
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M18245		chr2_204242607_T_A	rs16840919	2	2.04E+08
M18245		chr2_204246556_C_T	rs12467862	2	2.04E+08
M18245		chr2_204246867_A_T	rs6719957	2	2.04E+08
M18245		chr2_204247204_G_A	rs16840921	2	2.04E+08
M18245		chr2_204250017_A_C	rs72915296	2	2.04E+08
M18245		chr3_171493355_T_C	rs13076060	3	1.71E+08
M18245		chr3_171500914_C_T	rs6445000	3	1.72E+08
M18245		chr4_178629777_A_G	rs720094	4	1.79E+08
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M18245		chr4_178632148_G_A	chr4_178632148_G_A	4	1.79E+08
M18245		chr4_178633249_A_G	chr4_178633249_A_G	4	1.79E+08
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M18245		chr4_178633387_T_C	chr4_178633387_T_C	4	1.79E+08
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M18245		chr4_178634430_T_C	chr4_178634430_T_C	4	1.79E+08
M18245		chr4_178634979_T_G	rs7678680	4	1.79E+08
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M18245		chr4_178635896_T_TTA		4	1.79E+08
M18245		chr4_178636212_T_C	rs4590085	4	1.79E+08
M18245		chr4_178636792_A_G	chr4_178636792_A_G	4	1.79E+08
M18245		chr4_178637086_G_A	chr4_178637086_G_A	4	1.79E+08
M18245		chr4_178637623_C_T	rs6842405	4	1.79E+08
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M18245		chr4_178638357_GAATC_G		4	1.79E+08
M18245		chr4_178639156_A_G	rs11931849	4	1.79E+08
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M18335	M40173	chr7_76667361_ATTATT_A		7	76667361
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M18335	M40173	chr7_76675922_A_AT		7	76675922
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M18335	M40173	chr7_76678034_C_CAAACA		7	76678034
M18335	M40173	chr7_76679232_A_T	rs1833100	7	76679232
M18335	M40173	chr7_76679464_A_ACACACACACT		7	76679464
M18335	M40173	chr7_76689781_TTTGTTGTTG_T		7	76689781
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M18335	M40173	chr7_76846675_A_G	rs568004188	7	76846675
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M18335	M48455	chr12_88557856_T_C	chr12_88557856_T_C	12	88557856
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M18354		chr1_232579291_CA_C		1	2.33E+08
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M18354		chr2_18358585_GTCTC_G		2	18358585
M18354		chr2_32391811_G_A	chr2_32391811_G_A	2	32391811
M18354		chr2_32395820_G_A	rs10172510	2	32395820
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M18354		chr2_180511518_C_T	chr2_180511518_C_T	2	1.81E+08
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M18354		chr3_32440070_TACAC_T		3	32440070
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M18354		chr4_138278671_G_A	rs183671071	4	1.38E+08
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M18354		chr5_33955658_AAC_A		5	33955658
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M18354	chr5_77858623_G_C	rs6887123	5	77858623
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M18354	chr5_77879402_A_G	rs4704447	5	77879402
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M18357	chr6_105406425_C_A	rs6927596	6	1.05E+08
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M18357	chr6_129336707_T_C	chr6_129336707_T_C	6	1.29E+08
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M18357	M38625	chr17_33528167_G_GGTGTGTGTGTGTGTGTGTGTGT		17	33528167
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M18362		chr1_181115082_T_G	rs74134326	1	1.81E+08
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M18362		chr4_57370163_G_A	rs116543440	4	57370163
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M18362	M20691	chr2_45084314_G_A	rs45524934	2	45084314
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M18362	M31539	chr4_162290830_G_C	rs142660290	4	1.62E+08
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M18362	M32405	chr14_90139080_T_A	rs140585927	14	90139080
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M18369		chr1_118615856_T_TAC		1	1.19E+08
M18369		chr1_167488830_T_C	chr1_167488830_T_C	1	1.67E+08
M18369		chr1_186063449_AGAAGGAAGGAAG_A		1	1.86E+08
M18369		chr2_79426521_T_G	rs62156960	2	79426521
M18369		chr2_122143768_G_A	rs113250869	2	1.22E+08
M18369		chr2_237946423_A_AAAGG		2	2.38E+08
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M18467	M40452	chr10_119373325_T_C	rs12415779	10	1.19E+08
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M18467	M42395	chr4_176865758_C_T	rs76050033	4	1.77E+08
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M18467	M43374	chr4_176882371_G_A	rs113989139	4	1.77E+08
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M18476	M42370	chr8_65006075_G_A	rs7830419	8	65006075
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M18476	M46336	chr8_65004297_T_G	rs77796481	8	65004297
M18476	M46336	chr8_65004814_G_A	rs62520125	8	65004814
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M18476	M46336	chr8_65006294_T_C	rs7817586	8	65006294
M18476	M46336	chr8_65007412_A_G	rs7464276	8	65007412
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M18494		chr1_163533339_G_A	rs17364032	1	1.64E+08
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M18494		chr4_49603228_G_A	rs150607687	4	49603228
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M18497	chr19_295597_C_T	rs72982388	19	295597
M18497	chr19_310381_T_A	rs72984418	19	310381
M18497	chr19_56970517_AAAAC_A		19	56970517
M18497	chr19_57009578_A_C	rs10401391	19	57009578
M18497	chr20_38166561_T_C	rs7272112	20	38166561
M18497	chr22_49363513_C_A	rs9616580	22	49363513
M18497	chr22_49364115_G_A	rs62233105	22	49364115
M18497	chr22_49375644_G_GA		22	49375644
M19130	chr2_75835148_A_ACAGAAAGTAGACTT		2	75835148
M19130	chr3_23273540_A_C	chr3_23273540_A_C	3	23273540
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M19130	chr5_1295957_A_G	rs7712562	5	1295957
M19130	chr5_1300242_GTCAGCC_G		5	1300242
M19130	chr5_142475736_C_T	rs17576583	5	1.42E+08
M19130	chr5_168945246_A_ATT		5	1.69E+08
M19130	chr6_26368951_A_C	rs375414421	6	26368951
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M19130	chr6_64125154_GTC_G		6	64125154
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M19130		chr13_24538596_AGTGTGT_A		13	24538596
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M19130		chr15_80307194_A_G	rs141668138	15	80307194
M19130		chr16_81068084_A_G	rs72825254	16	81068084
M19130		chr18_22558090_C_T	rs75959999	18	22558090
M19130		chr20_13003024_A_G	chr20_13003024_A_G	20	13003024
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M20676	M36738	chr7_63455558_AAT_A		7	63455558
M20676	M36738	chr7_63483535_C_T	rs200748656	7	63483535
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M20691	M21134	chr5_103250835_A_ATT		5	1.03E+08
M20691	M32398	chr2_45084314_G_A	rs45524934	2	45084314
M20691	M40173	chr12_119160289_G_GTCTC		12	1.19E+08
M20691	M48455	chr8_15130058_T_A	rs12056853	8	15130058
M20691	M52938	chr13_104017802_G_A	rs118146722	13	1.04E+08
M20703	M22842	chr15_41418863_A_T	rs71472484	15	41418863
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M20703	M32415	chr6_110947805_C_CTT		6	1.11E+08
M20703	M34384	chr6_27208849_G_A	rs34817112	6	27208849
M20703	M38102	chr10_82216460_A_ATATATGTGTGTG		10	82216460
M20703	M43258	chr7_65210160_C_T	rs117288129	7	65210160
M20703	M44526	chr14_41301040_G_GA		14	41301040
M20703	M47101	chr10_98366538_C_T	rs10883082	10	98366538
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M20703	M47101	chr10_98388785_C_T	chr10_98388785_C_T	10	98388785

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M21134	M40406	chr17_76348203_G_C	rs117479423	17	76348203
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M21134	M43412	chr1_113987432_C_T	rs77334105	1	1.14E+08
M21134	M44675	chr20_34322936_T_G	rs149572251	20	34322936
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M21134	M44675	chr20_34475794_T_C	rs184372418	20	34475794
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M21134	M52938	chr4_118395393_A_G	rs543526843	4	1.18E+08
M21134	M52938	chr4_118507070_C_T	rs190280036	4	1.19E+08
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M21134	M53237	chr2_195282922_G_C	rs72919712	2	1.95E+08
M21151		chr1_12785641_A_G	rs185104579	1	12785641
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M21151		chr1_114683472_A_T	rs72687866	1	1.15E+08
M21151		chr1_181907834_A_ACAC		1	1.82E+08
M21151		chr1_216923596_G_A	rs140341347	1	2.17E+08
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M21151		chr2_41673987_G_A	rs17028327	2	41673987
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M21151		chr2_50192020_T_A	rs184213102	2	50192020
M21151		chr2_151828197_C_CCA		2	1.52E+08
M21151		chr2_167133680_G_C	rs16852996	2	1.67E+08
M21151		chr2_167134296_T_A	rs116416206	2	1.67E+08
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M21151		chr2_167135040_G_C	rs78718827	2	1.67E+08
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M21151		chr6_87494589_T_A	rs7383567	6	87494589
M21151		chr6_87544789_C_CT		6	87544789
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M21151		chr6_87638693_T_C	rs79353874	6	87638693
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M21151	chr7_24336687_G_A	rs73088775	7	24336687
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M21151	chr10_86429896_C_A	rs35414327	10	86429896
M21151	chr10_86434757_TTGTCT_T		10	86434757
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M21151	chr10_103085922_ACTCATT_A		10	1.03E+08
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M21151	chr15_100640568_A_G	rs12914253	15	1.01E+08
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M21151	chr15_100643735_C_T	chr15_100643735_C_1	15	1.01E+08
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M21151	chr17_79822269_C_CTG		17	79822269
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M21151	chr19_45219485_G_A	rs8109764	19	45219485

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M21158	M38749	chr20_32670332_T_C	rs6579029	20	32670332
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M21169		chr2_156080856_G_A	rs35357369	2	1.56E+08
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M21169		chr5_300669_C_T	rs112717957	5	300669
M21169		chr5_71403403_A_G	rs71576940	5	71403403
M21169		chr5_71618488_TCTTCCTTC_T		5	71618488
M21169		chr5_76736931_A_AG		5	76736931
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M21169		chr8_136995468_G_A	rs35891263	8	1.37E+08
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M21169		chr13_70016056_T_C	chr13_70016056_T_C	13	70016056
M21169		chr13_70027537_G_A	rs34513199	13	70027537
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M21169		chr18_28803161_C_CCT		18	28803161
M21169		chr18_28818341_A_AT		18	28818341
M21169		chr18_33359656_T_G	rs9947477	18	33359656
M21169		chr18_33365874_A_C	rs4621052	18	33365874
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M21169	M34381	chr13_50749185_C_T	rs9568465	13	50749185
M21169	M34381	chr13_50755844_C_T	rs9568468	13	50755844
M21169	M34381	chr13_50760647_C_A	rs9568469	13	50760647
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M21169	M34424	chr8_18403983_G_A	rs1390360	8	18403983
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M21169	M52282	chr1_48693215_G_A	chr1_48693215_G_A	1	48693215
M21189		chr1_9608931_A_T	rs149217946	1	9608931
M21189		chr1_9610119_C_T	rs147092197	1	9610119
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M21189		chr2_169910726_C_G	rs62170318	2	1.7E+08
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M21189		chr3_29464585_A_T	rs189089662	3	29464585
M21189		chr3_59574004_T_C	rs55958511	3	59574004
M21189		chr3_65087925_G_C	rs141500713	3	65087925
M21189		chr3_65097576_G_C	rs139591516	3	65097576
M21189		chr3_119369953_TA_T		3	1.19E+08
M21189		chr3_119377230_GA_G		3	1.19E+08
M21189		chr3_119377521_T_C	rs74586253	3	1.19E+08
M21189		chr4_21324772_C_T	rs36119117	4	21324772
M21189		chr4_27172890_GAC_G		4	27172890

M21189	chr4_126747399_T_C	rs34408978	4	1.27E+08
M21189	chr5_157423310_T_G	rs537085318	5	1.57E+08
M21189	chr5_157491033_C_T	rs191259967	5	1.57E+08
M21189	chr5_157660427_TATAAAATAAA_T		5	1.58E+08
M21189	chr5_159836631_G_C	rs13164035	5	1.6E+08
M21189	chr7_18484510_C_T	rs17432356	7	18484510
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M22118	M37496	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
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M27673		chr11_103900193_G_T	rs7127296	11	1.04E+08
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M27673		chr12_131883038_C_T	rs12813853	12	1.32E+08
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M27673		chr13_40599514_C_T	rs117611437	13	40599514
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M27673		chr13_41092885_C_T	rs573135531	13	41092885
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M27673		chr15_91207507_G_T	rs11073987	15	91207507
M27673		chr16_56543004_A_T	chr16_56543004_A_T	16	56543004
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M27673		chr16_60177799_GT_G		16	60177799
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M27673		chr17_1286382_C_T	rs80088512	17	1286382
M27673		chr17_1286419_A_G	rs112988259	17	1286419
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M27673		chr17_1290649_C_T	rs113233230	17	1290649
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M27673		chr18_30244551_TA_T		18	30244551
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M27673		chr19_37254911_G_T	rs8110011	19	37254911
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M27722		chr2_142196748_C_G	rs76624863	2	1.42E+08
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M27722		chr3_32322827_G_A	chr3_32322827_G_A	3	32322827
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M27722		chr4_69353831_G_A	rs11728203	4	69353831
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M27722		chr7_33610250_C_G	rs2034510	7	33610250
M27722		chr7_158238864_C_T	chr7_158238864_C_T	7	1.58E+08
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M27722		chr8_40700204_C_T	rs71519568	8	40700204
M27722		chr8_40765722_A_T	rs34122307	8	40765722
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M27722		chr10_7648735_G_C	rs2026613	10	7648735
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M27722		chr12_81876116_A_G	rs118114796	12	81876116
M27722		chr12_98583137_G_T	rs12367211	12	98583137
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M27722		chr18_70550682_T_TGGA		18	70550682
M27722		chr19_6080254_C_CAG		19	6080254
M27722		chr21_20262506_G_A	rs117926567	21	20262506
M27722	M33447	chr18_21708480_C_T	chr18_21708480_C_T	18	21708480
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M27722	M38116	chr2_182624827_A_T	rs10170526	2	1.83E+08
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M27731		chr7_30261946_ACT_A		7	30261946
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M27731		chr13_97223779_CATTT_C		13	97223779
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M27731		chr16_8185911_C_T	rs151031006	16	8185911
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M27731		chr18_35903724_C_G	rs117502855	18	35903724
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M31555	M41888	chr19_5268170_AAAAT_A		19	5268170
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M32306	chr3_190329373_A_G	rs16865378	3	1.9E+08
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M32306	chr4_158768315_C_CTTGTTGTG		4	1.59E+08
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M32306	chr5_114220601_G_C	chr5_114220601_G_C	5	1.14E+08
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M32306	chr6_66196948_A_T	rs208453	6	66196948
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M32306	M36749	chr4_31098944_G_A	rs35365933	4	31098944
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M32346	chr4_159681872_A_G	rs2348618	4	1.6E+08
M32346	chr4_159681919_C_T	rs62337350	4	1.6E+08
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M32346	chr8_133336054_G_A	rs143555639	8	1.33E+08
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M32346	chr8_133337471_T_C	rs114403084	8	1.33E+08
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M32346	chr10_44869029_A_T	rs61222967	10	44869029
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M32346	chr11_59029917_G_A	rs11229746	11	59029917
M32346	chr11_59031323_C_A	rs11229747	11	59031323
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M32346	chr11_59032808_C_A	rs78589878	11	59032808
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M32346	chr11_59036148_C_A	rs3740952	11	59036148
M32346	chr11_59036701_G_A	rs11229762	11	59036701
M32346	chr11_59041519_T_C	rs11229766	11	59041519
M32346	chr11_59092251_G_C	rs80112742	11	59092251
M32346	chr11_90955464_A_AAG		11	90955464
M32346	chr11_120785863_T_C	chr11_120785863_T_C	11	1.21E+08
M32346	chr12_2141332_T_A	rs76328006	12	2141332
M32346	chr12_2154020_GA_G		12	2154020
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M32346	chr12_42218185_A_C	chr12_42218185_A_C	12	42218185
M32346	chr12_63636104_A_AGG		12	63636104
M32346	chr12_122372418_G_GA		12	1.22E+08
M32346	chr13_84999868_C_T	chr13_84999868_C_T	13	84999868
M32346	chr13_85000960_C_A	rs75889644	13	85000960
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M32346	chr15_61819223_A_AT		15	61819223
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M32346	M36808	chr22_12624902_CT_C		22	12624902
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M32346	M40173	chr11_4472337_C_T	rs80084894	11	4472337
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M32346	M43374	chr3_65834819_T_C	rs114836673	3	65834819
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M32349	M32492	chr16_81173586_G_A	rs11150359	16	81173586
M32350	M32405	chr21_21450001_A_T	rs17806131	21	21450001
M32350	M40173	chr2_183858773_A_G	rs62199592	2	1.84E+08
M32350	M40173	chr2_183868022_A_T	rs78758496	2	1.84E+08
M32350	M40173	chr2_183904097_T_A	rs74383367	2	1.84E+08
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M32350	M40173	chr9_124521671_T_C	rs111644528	9	1.25E+08
M32350	M43374	chr8_2034453_T_A	rs149220075	8	2034453
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M32350	M46539	chr10_29656041_T_TG		10	29656041
M32352		chr2_26699982_T_C	rs72800458	2	26699982
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M32352		chr2_65713112_G_A	rs143744463	2	65713112
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M32352		chr3_156035039_C_G	rs115774815	3	1.56E+08
M32352		chr3_156054937_C_T	rs78060688	3	1.56E+08
M32352		chr3_156220971_G_A	rs140987174	3	1.56E+08
M32352		chr4_71356656_T_C	rs80010849	4	71356656
M32352		chr4_122327099_G_GTGTTT		4	1.22E+08
M32352		chr5_180713926_GA_G		5	1.81E+08
M32352		chr6_101409108_A_ATG		6	1.01E+08
M32352		chr6_148098211_T_C	rs17077993	6	1.48E+08
M32352		chr7_22780221_AAAAGAAAG_A		7	22780221
M32352		chr8_22751269_C_G	rs4872547	8	22751269
M32352		chr8_22751326_C_A	rs78087152	8	22751326
M32352		chr8_22751662_C_T	rs4872009	8	22751662
M32352		chr8_22751889_C_G	rs4872548	8	22751889
M32352		chr8_22752547_C_T	rs17088614	8	22752547

M32352	chr8_22753375_C_T	rs17088616	8	22753375
M32352	chr8_22754309_G_A	rs55994831	8	22754309
M32352	chr8_22755388_C_T	rs77502812	8	22755388
M32352	chr8_116674892_G_GT		8	1.17E+08
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M32352	chr8_116695489_G_C	rs6994586	8	1.17E+08
M32352	chr8_116731779_C_T	rs117853004	8	1.17E+08
M32352	chr8_116732857_G_C	rs117866543	8	1.17E+08
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M32352	chr8_124915318_G_A	rs78805591	8	1.25E+08
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M32352	chr14_36604286_A_T	rs200853516	14	36604286
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M32352	chr14_38795160_CA_C		14	38795160
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M32352	chr18_76131212_AC_A		18	76131212
M32352	chr18_76131569_G_T	rs71361177	18	76131569
M32352	chr18_76133262_G_A	rs12607599	18	76133262
M32352	chr18_76138108_A_G	rs17256480	18	76138108
M32352	chr18_76140678_A_C	rs71361178	18	76140678
M32352	chr18_76141089_C_T	rs12969862	18	76141089
M32352	chr18_76141100_T_G	rs12956286	18	76141100
M32352	chr18_76141154_T_TA		18	76141154
M32352	chr18_76141189_C_A	rs12969990	18	76141189
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M32352	chr18_76141470_C_T	rs17341795	18	76141470
M32352	chr18_76141531_C_T	rs17256920	18	76141531
M32352	chr18_76141699_A_T	rs71361179	18	76141699
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M32352	chr18_77372386_T_C	chr18_77372386_T_C	18	77372386
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M32352	chr18_77373780_G_A	rs9944829	18	77373780
M32352	chr18_77374706_G_T	chr18_77374706_G_T	18	77374706
M32352	chr20_36402045_A_G	rs2425255	20	36402045
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M32352	chr20_36408041_A_G	rs4603833	20	36408041
M32352	chr20_36408266_C_A	rs4292136	20	36408266
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M32352		chr22_47713376_C_CT		22	47713376
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M32352	M38395	chr10_12591345_A_C	rs188576670	10	12591345
M32352	M38395	chr10_12638821_G_A	rs181276704	10	12638821
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M32377	M38165	chr21_10052266_TATAC_T		21	10052266
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M32388		chr1_42725329_C_T	rs143757916	1	42725329
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M32388		chr2_180052652_A_G	chr2_180052652_A_G	2	1.8E+08
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M32388	chr6_28807590_A_AAT		6	28807590
M32388	chr6_29015280_C_T	rs142519903	6	29015280
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M32388	chr8_48729798_G_A	rs61733121	8	48729798
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M32388	chr8_95780521_A_G	chr8_95780521_A_G	8	95780521
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M32388	chr9_95390061_T_C	rs10993533	9	95390061
M32388	chr9_95400216_TC_T		9	95400216
M32388	chr9_95401088_GA_G		9	95401088
M32388	chr9_135688478_T_C	rs56662987	9	1.36E+08
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M32388	chr10_92054291_GA_G		10	92054291
M32388	chr10_92066979_G_A	rs4933713	10	92066979
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M32388	chr11_12002501_GA_G		11	12002501
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M32388	chr11_20522875_A_G	rs7126608	11	20522875
M32388	chr11_20522936_A_T	rs7126627	11	20522936
M32388	chr11_26292057_G_A	rs7128374	11	26292057
M32388	chr11_26297245_C_CT		11	26297245
M32388	chr11_132618217_C_T	rs2575896	11	1.33E+08

M32388	chr12_61914889_A_G	rs349879	12	61914889
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M32388	chr13_36925240_A_C	rs143871449	13	36925240
M32388	chr13_109477851_A_G	rs61963453	13	1.09E+08
M32388	chr14_39137005_TC_T		14	39137005
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M32388	chr14_73705245_C_T	rs12879215	14	73705245
M32388	chr15_86556807_A_T	rs117068972	15	86556807
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M32388	chr17_44034464_C_A	rs76990881	17	44034464
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M32388	chr18_2739735_G_A	rs11872184	18	2739735
M32388	chr18_2804441_G_C	rs149259359	18	2804441
M32388	chr18_5216796_G_T	rs4798315	18	5216796
M32388	chr18_5243568_C_T	rs8084872	18	5243568
M32388	chr18_5244777_G_C	rs1044658	18	5244777
M32388	chr18_5245408_G_GATAT		18	5245408
M32388	chr18_5246007_T_TAC		18	5246007
M32388	chr18_5246399_C_T	rs8576	18	5246399
M32388	chr18_5247433_C_T	rs9948693	18	5247433
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M32388	chr18_5264430_G_A	chr18_5264430_G_A	18	5264430
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M32388	chr18_5272517_G_T	rs28785855	18	5272517
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M32388	M36754	chr8_81850599_T_C	rs57080410	8	81850599
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M32388	M37496	chr18_5278441_T_C	chr18_5278441_T_C	18	5278441
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M32388	M37496	chr18_5284842_G_GTCA		18	5284842
M32388	M37496	chr18_5287999_G_A	rs7240735	18	5287999
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M32388	M48255	chr7_9385464_C_G	rs117197203	7	9385464
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M32390	M33443	chr17_3559982_T_C	rs141761570	17	3559982
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M32390	M33943	chr6_22019966_C_T	rs78328425	6	22019966
M32390	M33943	chr9_108981697_G_A	rs55755084	9	1.09E+08
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M32390	M35469	chr8_53958008_T_C	rs564028185	8	53958008
M32390	M35469	chr8_53963667_A_AC		8	53963667
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M32390	M35469	chr8_54136571_A_G	rs117264028	8	54136571
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M32390	M37063	chr20_17875664_G_C	rs116099975	20	17875664
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M32390	M38696	chr18_566272_T_A	rs13339701	18	566272
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M32390	M46142	chr2_41962015_ATGTGTGTGTG_A		2	41962015
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M32391		chr1_58705783_G_A	rs12119897	1	58705783
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M32391		chr1_238841078_A_T	rs3011592	1	2.39E+08
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M32391	chr2_76039948_CACAA_C		2	76039948
M32391	chr2_81206142_T_G	rs116240448	2	81206142
M32391	chr2_81363723_C_A	rs148864020	2	81363723
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M32391	chr3_56436903_C_T	rs114246307	3	56436903
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M32391	chr6_2936216_G_A	rs12210667	6	2936216
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M32391	chr8_52127975_A_AT		8	52127975
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M32391	chr9_13685130_TG_T		9	13685130
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M32391		chr12_15548528_A_ATGTG		12	15548528
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M32391		chr12_24503441_C_T	rs10842362	12	24503441
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M32391		chr12_24516168_G_A	rs2970418	12	24516168
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M32391		chr16_71670695_A_AACACACACACACACACAC		16	71670695
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M32391		chr17_4116617_A_T	rs62071006	17	4116617
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M32391		chr19_17383225_G_GT		19	17383225
M32391		chr19_17390999_C_A	rs142017083	19	17390999
M32391		chr19_17392807_C_G	rs114923173	19	17392807
M32391		chr19_17397788_C_A	rs149888899	19	17397788
M32391		chr19_17399788_CA_C		19	17399788
M32391		chr19_53297508_C_T	rs117708743	19	53297508
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M32405	M33444	chr21_21472925_T_C	rs78002269	21	21472925
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M32405	M38271	chr1_117035842_A_G	rs191635555	1	1.17E+08
M32405	M38696	chr21_21450001_A_T	rs17806131	21	21450001
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M32415	chr11_96785921_C_G	rs11216081	11	96785921
M32415	chr14_37585767_T_TG		14	37585767
M32415	chr14_40627261_C_CA		14	40627261
M32415	chr15_23105502_C_G	rs7162370	15	23105502
M32415	chr16_24622678_C_T	rs17769165	16	24622678
M32415	chr16_53602088_G_A	rs4784320	16	53602088
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M32415	chr16_77758707_CCTAGTCCTGGTCTGGAT_C		16	77758707
M32415	chr16_77762525_C_T	rs117515087	16	77762525
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M32415		chr18_35716111_G_A	rs140102463	18	35716111
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M32418	chr5_102050083_G_A	rs148553824	5	1.02E+08
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M32418	chr5_102935835_C_T	rs138322413	5	1.03E+08
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M32418	chr6_121081938_C_A	rs12525794	6	1.21E+08
M32418	chr6_121084504_C_T	rs2133993	6	1.21E+08
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M32418	chr6_121177550_T_C	rs785404	6	1.21E+08
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M32418	chr6_121276769_G_C	rs73526655	6	1.21E+08
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M32418	chr6_121348812_C_T	rs77357799	6	1.21E+08
M32418	chr6_121349091_T_TA		6	1.21E+08
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M32418	chr6_121352215_G_A	rs12527748	6	1.21E+08
M32418	chr6_121353232_C_G	rs4946566	6	1.21E+08
M32418	chr6_121353353_A_G	rs4946567	6	1.21E+08
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M32418	chr6_137288626_G_A	rs115235616	6	1.37E+08
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M32418	chr6_137291217_G_A	rs80026134	6	1.37E+08
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M32418	chr7_29751195_A_C	rs150705381	7	29751195
M32418	chr7_115805708_G_A	rs7795924	7	1.16E+08
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M32418	chr8_121500807_AC_A		8	1.22E+08
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M32418	chr9_9896385_T_G	rs142389238	9	9896385
M32418	chr9_9896592_T_C	rs80196313	9	9896592
M32418	chr9_9897131_TACAC_T		9	9897131
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M32418	chr9_40912175_C_T	chr9_40912175_C_T	9	40912175
M32418	chr9_40935571_G_A	chr9_40935571_G_A	9	40935571
M32418	chr9_40940017_A_G	chr9_40940017_A_G	9	40940017
M32418	chr9_96881988_A_AGT		9	96881988
M32418	chr9_130045626_G_A	rs13297243	9	1.3E+08
M32418	chr10_5451503_C_CTT		10	5451503
M32418	chr10_101568166_G_A	rs146721847	10	1.02E+08
M32418	chr10_133065470_AATGG_A		10	1.33E+08
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M32418	chr12_48992750_ATTGT_A		12	48992750

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M32418		chr13_44078699_G_A	rs9525910	13	44078699
M32418		chr13_45312051_C_A	rs79490558	13	45312051
M32418		chr13_45321056_G_A	rs117611293	13	45321056
M32418		chr13_74103637_T_A	rs56053373	13	74103637
M32418		chr13_110710408_C_T	rs72663411	13	1.11E+08
M32418		chr14_43926951_A_C	rs76065706	14	43926951
M32418		chr14_43932829_G_T	chr14_43932829_G_T	14	43932829
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M32418		chr15_28497166_C_A	rs199725718	15	28497166
M32418		chr15_51947678_G_GC		15	51947678
M32418		chr15_56469068_A_G	rs12913413	15	56469068
M32418		chr16_48239313_A_G	rs113436445	16	48239313
M32418		chr17_29029220_A_G	rs72815739	17	29029220
M32418		chr17_29029224_C_G	rs72815740	17	29029224
M32418		chr17_29031551_A_G	rs4794847	17	29031551
M32418		chr17_72507888_G_GAAAAC		17	72507888
M32418		chr18_5550860_A_G	rs75947551	18	5550860
M32418		chr18_65522256_G_A	rs115226293	18	65522256
M32418		chr19_38679568_C_CGTGTGTGTGTGT		19	38679568
M32418		chr20_54649587_C_A	rs74857804	20	54649587
M32418		chr21_16397420_C_T	rs2823781	21	16397420
M32418		chr21_37073729_C_G	rs551135546	21	37073729
M32418		chr21_37122119_C_T	rs117879463	21	37122119
M32418		chr21_37200760_G_A	rs78827018	21	37200760
M32418	M33422	chr14_87284506_T_TGTGTGTGTGTGTGA		14	87284506
M32418	M34424	chr8_18414867_C_T	rs4921913	8	18414867
M32418	M34424	chr8_18414928_C_T	rs4921914	8	18414928
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M32418	M34424	chr8_18415025_C_T	rs35246381	8	18415025
M32418	M34424	chr8_18415125_T_C	rs35570672	8	18415125
M32418	M34424	chr8_18415371_G_A	rs1495741	8	18415371
M32418	M34424	chr8_18415790_G_C	chr8_18415790_G_C	8	18415790
M32418	M36749	chr4_141281626_A_G	rs35431429	4	1.41E+08
M32418	M37063	chr14_87284506_T_TGTGTGTGTGTGTGA		14	87284506
M32418	M37496	chr11_88123620_A_G	rs1872738	11	88123620
M32418	M40410	chr13_47162787_T_TACACAC		13	47162787
M32418	M42395	chr4_10858968_C_A	rs13130435	4	10858968
M32418	M42395	chr4_10859075_A_C	rs60641270	4	10859075
M32418	M42395	chr4_10860368_G_A	rs7690500	4	10860368
M32418	M42395	chr4_10860795_T_A	rs4697795	4	10860795
M32418	M42395	chr4_10862892_A_G	rs4697796	4	10862892
M32418	M42395	chr4_10864907_G_T	rs13133866	4	10864907
M32418	M42395	chr4_10865078_C_T	rs11735933	4	10865078
M32418	M42395	chr4_10865432_G_T	rs4074743	4	10865432
M32418	M42446	chr4_141268970_G_T	rs190185046	4	1.41E+08
M32418	M54676	chr4_74840191_A_G	rs78954360	4	74840191
M32445		chr2_131773599_G_A	chr2_131773599_G_A	2	1.32E+08
M32445		chr3_61712050_T_C	rs11712902	3	61712050
M32445		chr3_65098302_G_T	rs112770877	3	65098302

M32445	chr3_65099257_T_C	rs7637087	3	65099257
M32445	chr3_65102555_T_G	rs111633454	3	65102555
M32445	chr3_65108548_A_G	rs17072325	3	65108548
M32445	chr3_65108677_C_T	rs76178487	3	65108677
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M32445	chr3_65120100_G_A	rs9879106	3	65120100
M32445	chr3_65122559_A_G	rs7644423	3	65122559
M32445	chr3_164019462_A_G	rs16833934	3	1.64E+08
M32445	chr3_164020120_C_G	rs66780086	3	1.64E+08
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M32445	chr3_164021307_C_G	rs34355574	3	1.64E+08
M32445	chr3_164022109_C_T	rs36091081	3	1.64E+08
M32445	chr3_164022148_G_C	rs35701444	3	1.64E+08
M32445	chr3_164022514_G_A	rs35094207	3	1.64E+08
M32445	chr3_164022582_C_T	rs35971106	3	1.64E+08
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M32445	chr3_164022819_A_G	rs67533034	3	1.64E+08
M32445	chr3_164022996_A_G	rs67106323	3	1.64E+08
M32445	chr3_164023035_G_A	rs66966062	3	1.64E+08
M32445	chr4_26589822_T_G	rs71610899	4	26589822
M32445	chr4_26615562_A_G	rs79861717	4	26615562
M32445	chr6_29665242_C_A	chr6_29665242_C_A	6	29665242
M32445	chr6_29693679_A_T	rs2894113	6	29693679
M32445	chr6_100040933_A_T	rs146101291	6	1E+08
M32445	chr6_100058140_T_G	rs62421886	6	1E+08
M32445	chr6_100064166_C_A	rs62421890	6	1E+08
M32445	chr6_100075851_C_A	rs62421891	6	1E+08
M32445	chr8_142689702_GCACA_G		8	1.43E+08
M32445	chr11_111019824_T_G	rs317521	11	1.11E+08
M32445	chr11_111042516_G_A	rs4938174	11	1.11E+08
M32445	chr11_111045265_A_C	rs7943048	11	1.11E+08
M32445	chr13_39875321_G_A	rs61955596	13	39875321
M32445	chr14_23858221_CA_C		14	23858221
M32445	chr15_55496294_C_G	rs75336123	15	55496294
M32445	chr16_28260084_T_TTGTGTG		16	28260084
M32445	chr17_30702710_A_C	rs17245607	17	30702710
M32445	chr17_30712948_T_C	rs1808257	17	30712948
M32445	chr17_30714534_T_C	rs2321926	17	30714534
M32445	chr17_30718007_T_C	rs9889790	17	30718007
M32445	chr17_30722900_T_C	rs7209190	17	30722900
M32445	chr17_30742230_A_AAAAC		17	30742230
M32445	chr17_30786697_A_AATCT		17	30786697
M32445	chr17_30792743_C_CAA		17	30792743
M32445	chr17_30811002_A_T	rs1979507	17	30811002
M32445	chr17_30814251_C_T	rs9891159	17	30814251
M32445	chr17_30822863_C_T	rs55872374	17	30822863
M32445	chr17_35588227_A_G	chr17_35588227_A_G	17	35588227
M32445	chr17_42343019_A_C	rs8069836	17	42343019
M32445	chr20_47129115_C_G	rs141415354	20	47129115
M32445	chr20_53074094_A_T	rs1293439	20	53074094

M32445	chr21_31508465_T_C	rs9976139	21	31508465
M32446	chr1_11665880_CAG_C		1	11665880
M32446	chr1_11666269_A_G	rs3117067	1	11666269
M32446	chr1_25790990_CGCTT_C		1	25790990
M32446	chr1_118762759_A_G	chr1_118762759_A_G	1	1.19E+08
M32446	chr1_235089293_TCGG_T		1	2.35E+08
M32446	chr1_235093306_A_G	rs72632296	1	2.35E+08
M32446	chr1_238311767_C_T	rs517171	1	2.38E+08
M32446	chr2_790109_A_G	rs11682282	2	790109
M32446	chr2_790883_T_C	rs6724629	2	790883
M32446	chr2_792178_A_G	rs11685432	2	792178
M32446	chr2_792203_T_C	rs11689911	2	792203
M32446	chr2_792398_A_G	rs7571499	2	792398
M32446	chr2_792516_T_C	rs7582159	2	792516
M32446	chr2_793294_A_G	rs61346502	2	793294
M32446	chr2_793373_A_G	rs61184041	2	793373
M32446	chr2_794979_T_C	rs34416867	2	794979
M32446	chr2_795072_T_G	rs56344541	2	795072
M32446	chr3_25518453_C_A	rs34821999	3	25518453
M32446	chr3_120816582_A_C	chr3_120816582_A_C	3	1.21E+08
M32446	chr4_138763533_AGAT_A		4	1.39E+08
M32446	chr5_178766388_G_A	rs62393880	5	1.79E+08
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M32446	chr10_13782124_G_T	chr10_13782124_G_T	10	13782124
M32446	chr10_116272107_G_A	rs2577360	10	1.16E+08
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M32446	chr11_75300708_T_C	chr11_75300708_T_C	11	75300708
M32446	chr11_114139626_CGT_C		11	1.14E+08
M32446	chr12_77846536_A_G	chr12_77846536_A_G	12	77846536
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M32446	chr17_50898234_A_G	rs16949454	17	50898234
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M32446	chr21_35143706_G_A	rs147668576	21	35143706
M32446	chr21_35149936_G_A	rs16992884	21	35149936
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M32455	M40406	chr9_89000340_GTCCT_G		9	89000340
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M33418	chr2_163668014_AC_A		2	1.64E+08
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M33418	chr4_100214494_T_A	rs36103711	4	1E+08
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M33443		chr20_920113_T_C	rs9679950	20	920113
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M33447		chr2_51529511_C_T	chr2_51529511_C_T	2	51529511
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M33471	M36749	chr5_17735035_A_AT		5	17735035
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M33487		chr14_96772683_CA_C		14	96772683
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M33487		chr15_95612420_G_GT		15	95612420
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M33587		chr6_149813260_ATGTGTGTGTGTG_A		6	1.5E+08
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M33587		chr6_164542215_C_T	rs138938543	6	1.65E+08
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M33939		chr1_34825488_G_C	rs115132157	1	34825488
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M33943		chr1_111430326_A_G	chr1_111430326_A_G	1	1.11E+08
M33943		chr1_111432313_A_G	chr1_111432313_A_G	1	1.11E+08
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M33943		chr1_111436733_C_T	chr1_111436733_C_T	1	1.11E+08
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M33943	chr16_84841032_G_A	rs75650095	16	84841032
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M33943	chr17_27903283_G_A	rs8082039	17	27903283
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M33943	chr18_80261221_A_T	chr18_80261221_A_T	18	80261221
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M33943	chr19_3328261_G_A	rs56218148	19	3328261
M33943	chr19_54600158_G_A	rs1408812	19	54600158
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M33946	chr6_65358297_C_T	rs6938266	6	65358297
M33946	chr6_65358497_A_C	chr6_65358497_A_C	6	65358497
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M33946	chr6_65361335_A_C	rs6903600	6	65361335
M33946	chr6_65362318_T_C	chr6_65362318_T_C	6	65362318
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M33946	chr6_65363168_T_C	rs9445526	6	65363168
M33946	chr6_65363392_C_T	rs9445528	6	65363392
M33946	chr6_65363453_A_T	rs9453278	6	65363453
M33946	chr6_65363870_T_C	rs6921146	6	65363870
M33946	chr6_65363893_A_G	rs6916611	6	65363893
M33946	chr6_65364674_C_T	rs4394197	6	65364674
M33946	chr6_108098920_CAT_C		6	1.08E+08
M33946	chr6_160870511_T_A	rs138815404	6	1.61E+08
M33946	chr6_160870512_G_T	rs148594833	6	1.61E+08
M33946	chr7_117279931_C_T	rs145886602	7	1.17E+08
M33946	chr7_117333439_T_C	rs138228927	7	1.17E+08
M33946	chr7_117397210_C_T	rs182305595	7	1.17E+08
M33946	chr7_117442796_A_G	rs138965540	7	1.17E+08
M33946	chr7_117544480_C_T	rs139051568	7	1.18E+08
M33946	chr7_142950477_C_T	chr7_142950477_C_T	7	1.43E+08
M33946	chr8_6549373_C_T	rs80108220	8	6549373
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M33946	chr10_73973541_A_G	rs11000828	10	73973541
M33946	chr12_6826466_A_C	rs2071081	12	6826466
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M33946		chr14_105573828_C_T	rs4983440	14	1.06E+08
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M33946		chr15_72281827_C_T	rs59353578	15	72281827
M33946		chr15_72282324_G_A	rs11072353	15	72282324
M33946		chr15_72285731_C_A	rs4777498	15	72285731
M33946		chr15_72287029_G_T	rs2278150	15	72287029
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M33946		chr15_72300655_G_A	rs11635828	15	72300655
M33946		chr15_72303084_G_A	rs2162235	15	72303084
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M33946		chr15_72323562_T_C	rs6495000	15	72323562
M33946		chr15_72324444_C_T	rs11072357	15	72324444
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M33946		chr15_72343488_A_C	rs11629508	15	72343488
M33946		chr15_72343562_C_T	chr15_72343562_C_T	15	72343562
M33946		chr15_77932861_T_C	chr15_77932861_T_C	15	77932861
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M33946		chr16_33733776_G_T	chr16_33733776_G_T	16	33733776
M33946		chr18_58959260_G_T	rs59814311	18	58959260
M33946		chr19_54609584_G_A	rs272413	19	54609584
M33946		chr20_56688712_C_CA		20	56688712
M33946	M39583	chr11_124846512_G_A	rs11602308	11	1.25E+08
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M33949	M36749	chr6_50996920_CA_C		6	50996920
M33950	M34035	chr7_142060735_C_T	rs6973762	7	1.42E+08
M33950	M40173	chr9_131293403_C_T	rs138101128	9	1.31E+08
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M33950	M43374	chr4_31216916_C_T	rs146887597	4	31216916
M33950	M43374	chr4_31217357_T_A	rs10004493	4	31217357
M33950	M43374	chr4_31219020_A_G	rs142216004	4	31219020
M33950	M43374	chr4_31220925_A_G	rs77525743	4	31220925
M33950	M43374	chr4_31221267_A_G	rs12649604	4	31221267
M33950	M43374	chr4_31224949_T_A	rs78090210	4	31224949
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M33950	M43374	chr4_31228886_T_C	rs78341619	4	31228886
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M33950	M43374	chr4_31242641_CAA_C		4	31242641
M33950	M43374	chr4_31243186_A_G	rs117070866	4	31243186
M33950	M43374	chr4_31243297_G_A	rs10009167	4	31243297
M33950	M43374	chr4_31245121_C_A	rs10015267	4	31245121
M33950	M43374	chr4_31248192_G_A	rs58890763	4	31248192
M33950	M43374	chr4_31249084_T_C	rs12640774	4	31249084
M33950	M43374	chr4_31249118_G_C	rs12649706	4	31249118
M33950	M43374	chr4_31249864_TG_T		4	31249864
M33950	M43374	chr4_31250020_G_A	rs7691599	4	31250020

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M33950	M43374	chr4_31251002_A_G	rs6851115	4	31251002
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M33950	M43374	chr4_31251472_T_TAA		4	31251472
M33950	M43374	chr4_31251514_C_T	rs78854645	4	31251514
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M33950	M43374	chr4_31254305_G_A	rs75887966	4	31254305
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M33950	M43374	chr4_31256578_C_T	rs117762269	4	31256578
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M33950	M43374	chr4_31259790_A_G	rs115659272	4	31259790
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M33950	M43374	chr4_31268171_C_T	rs75593140	4	31268171
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M33950	M46142	chr2_41962015_ATGTGTGTGTG_A		2	41962015
M33950	M46142	chr2_41970024_G_A	rs139380967	2	41970024
M33950	M46142	chr2_41982336_C_T	rs145568428	2	41982336
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M33950	M53231	chr16_58194797_C_T	rs2550364	16	58194797
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M33953	M40406	chr5_116438053_AAC_A		5	1.16E+08
M33953	M43026	chr1_13427748_G_GA		1	13427748
M33953	M43374	chr8_2034453_T_A	rs149220075	8	2034453
M33953	M43506	chr13_107503924_AT_A		13	1.08E+08
M33953	M45970	chr2_22537986_A_G	rs72793907	2	22537986
M33953	M45970	chr2_22538432_T_C	rs72793912	2	22538432
M33953	M45970	chr2_22538433_A_T	rs72793915	2	22538433
M33955	M34384	chr7_1287222_C_T	rs117383081	7	1287222
M33955	M42978	chr4_29326113_T_A	rs116457216	4	29326113
M33955	M43027	chr4_29326113_T_A	rs116457216	4	29326113
M33955	M45970	chr13_20535547_G_A	rs76803342	13	20535547

M33955	M52461	chr12_48003997_G_A	rs77534899	12	48003997
M33955	M52461	chr12_48110268_C_T	rs117528297	12	48110268
M33959	M36752	chr1_8636186_C_T	rs55805586	1	8636186
M33959	M37496	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
M33959	M40406	chr2_29669883_TA_T		2	29669883
M33959	M42109	chr17_16990840_TCA_T		17	16990840
M33959	M44675	chr4_110296077_A_G	rs17440809	4	1.1E+08
M33959	M44675	chr5_45841528_A_G	rs6451824	5	45841528
M33959	M44675	chr5_45879172_G_A	rs74482938	5	45879172
M33959	M44675	chr5_45987416_G_T	rs75346245	5	45987416
M33959	M48149	chr12_110926801_CA_C		12	1.11E+08
M33961	M34384	chr7_1287222_C_T	rs117383081	7	1287222
M33961	M35718	chr19_6896930_C_G	rs330878	19	6896930
M33961	M35718	chr19_6897381_G_A	rs330879	19	6897381
M33961	M35718	chr19_6897453_C_G	rs330880	19	6897453
M33961	M35718	chr19_6900819_A_G	rs330886	19	6900819
M33961	M35718	chr19_6900944_T_C	rs330887	19	6900944
M33961	M35718	chr19_6904479_C_A	chr19_6904479_C_A	19	6904479
M33961	M35718	chr19_6904699_T_G	rs4807106	19	6904699
M33961	M35718	chr19_6905884_T_C	chr19_6905884_T_C	19	6905884
M33961	M35718	chr19_6905964_A_G	chr19_6905964_A_G	19	6905964
M33961	M35718	chr19_6906346_C_G	rs366181	19	6906346
M33961	M39583	chr18_59710927_T_C	rs77082887	18	59710927
M33965		chr1_15243601_A_G	rs35138583	1	15243601
M33965		chr1_217515799_TA_T		1	2.18E+08
M33965		chr2_25383426_C_A	rs10205701	2	25383426
M33965		chr4_20243287_T_A	rs114617407	4	20243287
M33965		chr4_63889261_G_A	rs72643816	4	63889261
M33965		chr4_63906498_G_T	rs72643841	4	63906498
M33965		chr4_63932055_G_T	rs72645527	4	63932055
M33965		chr4_64016216_A_G	rs72645597	4	64016216
M33965		chr4_64028304_G_A	rs72646704	4	64028304
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M33965		chr4_64242796_A_C	rs72638923	4	64242796
M33965		chr4_64248612_A_C	rs72638929	4	64248612
M33965		chr4_64443000_G_A	rs141292614	4	64443000
M33965		chr4_125590426_G_GGTGTGT		4	1.26E+08
M33965		chr5_147884681_T_TCTTTC		5	1.48E+08
M33965		chr6_72862473_A_C	rs1316976	6	72862473
M33965		chr6_72863556_A_G	rs9351948	6	72863556
M33965		chr7_7400973_T_TGG		7	7400973
M33965		chr7_35526932_G_T	rs343078	7	35526932
M33965		chr7_35531625_A_T	rs343081	7	35531625
M33965		chr7_132909071_G_A	rs77283305	7	1.33E+08
M33965		chr7_133101066_G_A	rs59972631	7	1.33E+08
M33965		chr7_133103842_T_C	rs11771534	7	1.33E+08
M33965		chr7_133111975_T_C	rs4731935	7	1.33E+08
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M33965		chr9_25501906_T_TG		9	25501906
M33965		chr9_33945491_G_GACAA		9	33945491

M33965	chr9_95083455_C_T	rs28626189	9	95083455
M33965	chr10_76725098_C_A	rs61867066	10	76725098
M33965	chr13_39937219_TTGTGTGTGTGTGTGTG_T		13	39937219
M33965	chr13_107873306_G_A	chr13_107873306_G_	13	1.08E+08
M33965	chr13_107874843_A_T	rs1509094	13	1.08E+08
M33965	chr13_107886507_C_A	rs1509095	13	1.08E+08
M33965	chr13_107886750_C_T	rs1340784	13	1.08E+08
M33965	chr13_107894307_A_G	rs1703604	13	1.08E+08
M33965	chr13_107894567_T_C	rs1615425	13	1.08E+08
M33965	chr13_107898533_G_A	rs35191194	13	1.08E+08
M33965	chr13_107898999_G_C	rs1771097	13	1.08E+08
M33965	chr13_107900299_T_C	rs9583200	13	1.08E+08
M33965	chr13_107900455 TTCC_T		13	1.08E+08
M33965	chr13_107903377_G_GA		13	1.08E+08
M33965	chr13_107903442_A_T	rs2391586	13	1.08E+08
M33965	chr13_107904141_G_A	chr13_107904141_G_	13	1.08E+08
M33965	chr13_107905361_A_C	chr13_107905361_A_	13	1.08E+08
M33965	chr13_107905451_C_T	rs7322238	13	1.08E+08
M33965	chr15_54932616_C_G	rs78494478	15	54932616
M33965	chr18_42967286_T_A	rs77477549	18	42967286
M33965	chr18_42970250_A_T	rs76237721	18	42970250
M33965	chr18_57088237_C_G	rs7504951	18	57088237
M33965	chr22_32912721_TA_T		22	32912721
M33967	chr1_247884341_G_A	rs4925755	1	2.48E+08
M33967	chr2_226661473_AAC_A		2	2.27E+08
M33967	chr4_35203790_C_T	rs62293757	4	35203790
M33967	chr4_35256010_G_A	rs4547812	4	35256010
M33967	chr4_153101821_C_CGT		4	1.53E+08
M33967	chr4_155541408_G_A	rs149634362	4	1.56E+08
M33967	chr4_155542962_G_A	rs140412497	4	1.56E+08
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M33971	M40452	chr18_4403315_A_G	rs62087781	18	4403315
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M34035	M35631	chr18_79442949_A_G	chr18_79442949_A_G	18	79442949
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M34035	M43507	chr7_142060735_C_T	rs6973762	7	1.42E+08
M34035	M48455	chr7_142060998_T_C	rs6963697	7	1.42E+08
M34035	M52634	chr6_135034024_C_T	rs111229204	6	1.35E+08
M34035	M53237	chr7_142060735_C_T	rs6973762	7	1.42E+08
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M34381		chr4_119151430_A_G	rs4452412	4	1.19E+08
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M34381		chr4_119212999_T_C	rs6833531	4	1.19E+08
M34381		chr5_17931707_G_A	chr5_17931707_G_A	5	17931707
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M34381		chr5_35800445_A_G	rs2361394	5	35800445
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M34381		chr5_35811865_A_G	rs146508525	5	35811865
M34381		chr5_38392524_G_C	rs34963816	5	38392524
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M34381	chr7_158946187_A_C	chr7_158946187_A_C	7	1.59E+08
M34381	chr7_158947103_T_G	rs2527203	7	1.59E+08
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M34381	chr8_21021444_G_T	rs6996217	8	21021444
M34381	chr8_21023591_A_G	rs7386672	8	21023591
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M34424	M40452	chr8_18403088_G_A	rs4646250	8	18403088
M34424	M40452	chr8_18403983_G_A	rs1390360	8	18403983
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M34424	M40452	chr8_18404921_T_C	rs4646256	8	18404921
M34424	M40452	chr8_18405008_C_T	rs4244446	8	18405008
M34424	M40452	chr8_18405213_T_G	rs1495745	8	18405213

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M34424	M40452	chr8_18415125_T_C	rs35570672	8	18415125
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M34424	M40452	chr8_18415790_G_C	chr8_18415790_G_C	8	18415790
M34424	M40452	chr20_56283914_C_T	rs147775886	20	56283914
M34424	M40452	chr20_56336623_G_A	rs117451662	20	56336623
M34424	M42971	chr4_167494363_T_TCCTC		4	1.67E+08
M34424	M43847	chr8_18414867_C_T	rs4921913	8	18414867
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M34424	M43847	chr8_18415371_G_A	rs1495741	8	18415371
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M34424	M48114	chr8_18392865_G_A	rs55686478	8	18392865
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M34457	M40406	chr3_53173169_C_T	rs6797662	3	53173169
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M34457	M43374	chr17_6095275_T_C	rs113707707	17	6095275
M34457	M43374	chr17_6095586_G_A	rs75792852	17	6095586
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M35107		chr1_26024981_C_T	rs11582191	1	26024981
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M35107		chr2_113235047_T_C	rs10193733	2	1.13E+08
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M35107		chr3_14144127_A_G	rs2607770	3	14144127
M35107		chr3_14145949_G_T	chr3_14145949_G_T	3	14145949
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M35107		chr3_14147647_A_G	rs2257984	3	14147647
M35107		chr3_14151004_A_G	rs2607734	3	14151004
M35107		chr3_14151433_A_G	rs2607736	3	14151433
M35107		chr3_14177502_A_G	rs2607772	3	14177502
M35107		chr3_14200942_A_G	rs1127122	3	14200942
M35107		chr4_6691781_A_G	chr4_6691781_A_G	4	6691781
M35107		chr4_6698330_G_A	rs16839120	4	6698330
M35107		chr5_6483432_C_T	chr5_6483432_C_T	5	6483432
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M35107		chr7_152680531_C_T	rs533262390	7	1.53E+08
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M35107		chr8_87638311_T_C	rs75884484	8	87638311
M35107		chr8_87663019_C_T	rs71504328	8	87663019
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M35107		chr9_134444068_C_G	rs1007971	9	1.34E+08
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M35107		chr10_112129187_CT_C		10	1.12E+08
M35107		chr10_131357147_A_G	rs115787620	10	1.31E+08
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M35107		chr15_27585066_GAT_G		15	27585066
M35107		chr15_73656827_AT_A		15	73656827
M35107		chr15_73665458_C_A	rs62004615	15	73665458
M35107		chr16_78965372_T_C	rs9927540	16	78965372
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M35107		chr19_1549046_T_G	rs35457640	19	1549046
M35107		chr21_25895234_C_T	rs9976425	21	25895234
M35107		chr22_38963428_A_C	rs138269261	22	38963428
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M35107	M40410	chr2_165477926_G_A	rs116614182	2	1.65E+08
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M35107	M42398	chr3_79247708_C_T	chr3_79247708_C_T	3	79247708
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M35107	M42398	chr3_79251314_G_C	rs116533387	3	79251314
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M35107	M42398	chr3_79261596_T_C	rs76018922	3	79261596
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M35107	M42398	chr3_79309556_T_A	rs115745113	3	79309556
M35107	M42398	chr3_79342700_CAG_C		3	79342700
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M35107	M43374	chr4_31249864_TG_T		4	31249864
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M35107	M43374	chr4_31252165_G_T	rs4586887	4	31252165
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M35126		chr1_48593943_C_T	rs319960	1	48593943
M35126		chr1_61212030_T_C	rs10493306	1	61212030
M35126		chr1_244328504_A_G	rs3123699	1	2.44E+08
M35126		chr1_244328626_T_C	rs3127475	1	2.44E+08
M35126		chr1_244329157_G_A	rs113887841	1	2.44E+08

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M35126	chr6_169171393_C_A	rs9294971	6	1.69E+08
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M35126	chr6_169234915_G_A	rs9406328	6	1.69E+08
M35126	chr6_169234925_CA_C		6	1.69E+08
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M35126	chr7_148388867_G_A	rs4314575	7	1.48E+08
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M35126	chr8_57769663_C_T	rs78005454	8	57769663
M35126	chr8_57777942_G_A	rs113188614	8	57777942
M35126	chr8_57778047_T_C	rs111328641	8	57778047
M35126	chr8_57780826_C_G	rs77052437	8	57780826
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M35126	chr9_33035482_T_A	rs112359565	9	33035482
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M35126	chr13_73974964_T_C	rs4454843	13	73974964
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M35126	chr15_62958447_G_A	rs11071703	15	62958447
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M35126	chr16_76605590_G_C	rs113118238	16	76605590
M35126	chr18_59318_C_T	rs9953637	18	59318
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M35126	chr18_49041597_G_C	rs16950274	18	49041597
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M35126	chr18_49170053_A_G	rs78873922	18	49170053
M35126	chr18_49174917_T_G	rs74332360	18	49174917
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M35126	chr18_49285101_C_T	rs11082746	18	49285101
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M35126	chr18_49363523_C_T	rs58434021	18	49363523
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M35126	chr18_49398582_G_C	rs147283398	18	49398582
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M35126	chr18_49460983_A_C	rs117408547	18	49460983
M35126	chr18_49465893_G_C	rs7232025	18	49465893
M35126	chr18_49466276_G_T	chr18_49466276_G_T	18	49466276
M35126	chr19_56660873_T_C	rs112363595	19	56660873
M35126	chr22_37147133_G_A	chr22_37147133_G_A	22	37147133
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M35136	chr1_197483032_A_G	rs12023045	1	1.97E+08
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M35136	chr1_197505524_G_A	rs12133659	1	1.98E+08
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M35136	chr1_197571219_T_TTACAAAA		1	1.98E+08

M35136	chr1_197572430_G_A	rs7523909	1	1.98E+08
M35136	chr1_197572976_G_A	rs6672023	1	1.98E+08
M35136	chr1_197576177_C_T	rs10922256	1	1.98E+08
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M35157	chr13_47538212_A_C	rs77262681	13	47538212
M35157	chr13_61303115_TA_T		13	61303115
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M35157	chr16_69390232_T_C	rs12919664	16	69390232
M35157	chr18_31530244_A_G	rs118058602	18	31530244
M35157	chr19_41247503_CA_C		19	41247503
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M35635		chr1_57901267_C_T	rs61770281	1	57901267
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M35635		chr2_30203656_A_G	rs62141127	2	30203656
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M35651	M42971	chr8_105977578_A_C	rs79160999	8	1.06E+08
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M36738	M52282	chr10_100739014_G_GACAC		10	1.01E+08
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M36754		chr18_29145439_C_CAA		18	29145439
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M36770	M44526	chr5_149427663_C_T	chr5_149427663_C_T	5	1.49E+08
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M37063	chr19_6241612_G_A	rs118069413	19	6241612
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M37069	M40173	chr2_184130814_C_T	rs78916743	2	1.84E+08
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M37069	M43493	chr7_105247531_AACACACAC_A		7	1.05E+08
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M37207	chr19_9868069_A_AT		19	9868069
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M37431	M52461	chr2_141980316_C_G	rs72852559	2	1.42E+08
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M37432		chr2_2645700_T_C	rs67832247	2	2645700
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M37432		chr6_77340411_C_G	rs149975924	6	77340411
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M37432		chr7_3091032_A_T	rs4445115	7	3091032
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M37432		chr12_4725853_C_A	rs113044053	12	4725853
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M37432		chr17_76653369_C_T	rs9892115	17	76653369
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M37432	chr19_27976268_T_G	rs12981451	19	27976268
M37432	chr20_43455475_C_A	rs11699812	20	43455475
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M37432	chr20_63227028_G_A	rs36081892	20	63227028
M37432	chr20_63236544_A_G	rs34646256	20	63236544
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M37443	chr1_5872457_C_T	chr1_5872457_C_T	1	5872457
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M37443	chr2_202784909_A_G	rs4675292	2	2.03E+08
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M37443	chr3_187496719_C_CA		3	1.87E+08
M37443	chr3_187497130_C_A	rs9867986	3	1.87E+08
M37443	chr3_187497878_T_C	chr3_187497878_T_C	3	1.87E+08
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M37443	chr3_187500140_T_C	rs17781342	3	1.88E+08
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M37443	chr3_187501700_C_T	rs3115210	3	1.88E+08
M37443	chr5_14309069_T_TACCC		5	14309069
M37443	chr5_15088518_T_TATAGATATAGATATAGATATAG		5	15088518
M37443	chr5_140838075_ATAGT_A		5	1.41E+08
M37443	chr5_163759297_C_T	rs181419244	5	1.64E+08
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M37443	chr5_163865227_G_A	rs191755440	5	1.64E+08
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M37443	chr6_5902435_C_G	rs10155777	6	5902435
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M37443	chr6_164749365_A_G	chr6_164749365_A_G	6	1.65E+08
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M37443	chr8_53838127_C_CT		8	53838127
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M37443	chr8_71970315_A_ATAG		8	71970315
M37443	chr9_90094974_GT_G		9	90094974
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M37443	chr10_118983597_G_T	rs35229288	10	1.19E+08
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M37443		chr12_12320592_A_G	chr12_12320592_A_G	12	12320592
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M37443		chr12_62536281_T_C	rs117379731	12	62536281
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M37443		chr13_48311746_A_G	rs2854365	13	48311746
M37443		chr15_26586397_A_AACACACACACACACACAC		15	26586397
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M37443		chr16_73065566_GGTGTGTGT_G		16	73065566
M37443		chr17_42073956_A_AC		17	42073956
M37443		chr17_42075335_C_G	rs7224322	17	42075335
M37443		chr19_8248991_TGATGGGTGGATGGACAGATGTTT_G		19	8248991
M37443		chr21_43360170_G_A	rs113078694	21	43360170
M37443		chr21_43372882_C_A	rs150414296	21	43372882
M37443		chr21_43376958_A_G	rs117294728	21	43376958
M37443		chr22_48740474_C_A	rs527981680	22	48740474
M37443	M38271	chr3_62700977_G_C	rs77266386	3	62700977
M37443	M39583	chr11_124846512_G_A	rs11602308	11	1.25E+08
M37443	M41515	chr5_174563711_C_T	rs181828177	5	1.75E+08
M37443	M43231	chr21_25782967_T_C	rs190792000	21	25782967
M37443	M43374	chr17_6094838_G_A	rs80017140	17	6094838
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M37443	M43374	chr17_6095586_G_A	rs75792852	17	6095586
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M37455	M43807	chr17_6636285_T_C	rs145595727	17	6636285
M37458	M48434	chr4_161851749_ATTT_A		4	1.62E+08
M37465		chr1_67421508_T_C	rs12742136	1	67421508
M37465		chr1_231418840_C_T	chr1_231418840_C_T	1	2.31E+08
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M37465		chr3_14884975_G_A	rs13080977	3	14884975
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M37465		chr4_92694574_AT_A		4	92694574
M37465		chr4_92819258_G_T	chr4_92819258_G_T	4	92819258
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M37465		chr6_128978836_G_T	rs71568933	6	1.29E+08
M37465		chr6_148086519_A_G	rs9497930	6	1.48E+08
M37465		chr6_148096017_A_G	chr6_148096017_A_G	6	1.48E+08

M37465	chr6_160160470_T_C	rs4646283	6	1.6E+08
M37465	chr10_6293641_C_T	rs117203648	10	6293641
M37465	chr10_20481721_T_TTGTGTGTGTG		10	20481721
M37465	chr10_88157462_G_A	rs75587890	10	88157462
M37465	chr10_128568561_C_T	rs114990620	10	1.29E+08
M37465	chr18_4020560_A_T	rs10468648	18	4020560
M37465	chr19_4291881_G_T	rs34885178	19	4291881
M37465	chr22_45342446_T_A	rs2294202	22	45342446
M37465	chr22_45350216_C_A	rs9614649	22	45350216
M37465	chr22_45371511_C_T	rs9614653	22	45371511
M37465	chr22_45382950_A_G	rs9614654	22	45382950
M37496	chr1_5168941_G_A	rs149726896	1	5168941
M37496	chr1_21804922_C_CA		1	21804922
M37496	chr1_57901267_C_T	rs61770281	1	57901267
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M37496	chr3_51081604_T_C	rs146696682	3	51081604
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M37496	chr3_183480989_T_C	rs201690107	3	1.83E+08
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M37496	chr4_31090577_C_G	rs13131390	4	31090577
M37496	chr4_31095014_AACAG_A		4	31095014
M37496	chr4_31096340_T_C	rs13111595	4	31096340
M37496	chr4_31096906_C_T	rs71598140	4	31096906
M37496	chr4_31098944_G_A	rs35365933	4	31098944
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M37496	chr4_31154546_T_A	rs61795389	4	31154546
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M37496	chr4_31171061_C_G	rs61795393	4	31171061
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M37496		chr22_21878314_C_T	rs149925566	22	21878314
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M37496	M38165	chr14_65236731_A_G	rs147382352	14	65236731
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M37496	M38665	chr15_96787546_TTAGA_T		15	96787546
M37496	M38665	chr22_12595790_ATTTATTTT_A		22	12595790
M37496	M39271	chr11_88123620_A_G	rs1872738	11	88123620
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M37496	M44675	chr1_175910353_G_A	rs6425365	1	1.76E+08
M37496	M46225	chr6_138367842_C_T	rs6939676	6	1.38E+08
M37496	M46225	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
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M37496	M46960	chr11_67482339_A_AT		11	67482339
M37496	M47101	chr22_12595790_ATTTATTTT_A		22	12595790
M37496	M48149	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
M37496	M48195	chr6_138366639_C_T	rs9495039	6	1.38E+08
M37496	M48195	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
M37496	M48255	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
M37496	M48433	chr11_88123620_A_G	rs1872738	11	88123620
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M37496	M48857	chr17_19027484_G_GCACACA		17	19027484
M37496	M48857	chr17_78455748_C_T	rs111563325	17	78455748
M37496	M48885	chr6_138365117_C_A	rs9495034	6	1.38E+08

M37496	M48885	chr9_131203474_C_T	rs151279088	9	1.31E+08
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M37496	M53231	chr7_149847592_GGTGTGTGTGTGT_G		7	1.5E+08
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M37501	M39583	chr11_13114410_C_A	rs139246612	11	13114410
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M37501	M39583	chr11_13126550_G_A	rs150429244	11	13126550
M37501	M40406	chr13_106495471_A_ATATC		13	1.06E+08
M37501	M46336	chr5_163978978_A_G	rs12332118	5	1.64E+08
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M38105	chr4_176934524_A_G	rs1545090	4	1.77E+08
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M38105	chr5_102630885_A_G	chr5_102630885_A_G	5	1.03E+08
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M38105		chr17_52486373_T_G	rs72841066	17	52486373
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M38105		chr21_10768900_C_T	rs28885460	21	10768900
M38105		chr21_18118510_A_G	rs2824635	21	18118510
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M38167		chr1_47698950_A_G	rs4926966	1	47698950
M38167		chr2_3971969_ATGT_A		2	3971969
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M38167		chr2_173907183_C_A	rs7589313	2	1.74E+08
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M38167		chr2_173979973_T_G	rs12470226	2	1.74E+08
M38167		chr2_173980904_G_C	rs61056040	2	1.74E+08
M38167		chr3_160270050_G_A	rs141997256	3	1.6E+08
M38167		chr3_160590045_C_A	rs115326627	3	1.61E+08
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M38167		chr5_147545504_CGT_C		5	1.48E+08
M38167		chr5_147792029_A_G	rs4705195	5	1.48E+08
M38167		chr5_157720967_T_C	chr5_157720967_T_C	5	1.58E+08
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M38167		chr8_10842744_A_C	rs7830317	8	10842744
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M38167		chr8_10845783_T_C	rs10093774	8	10845783
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M38167		chr8_10848901_C_G	rs1991651	8	10848901
M38167		chr8_98341055_A_ATGTGTG		8	98341055
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M38175	chr2_58751388_G_A	rs17550821	2	58751388
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M38175	chr2_235524687_T_C	rs11689907	2	2.36E+08
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M38175	chr4_49563988_A_T	rs372093470	4	49563988
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M38175	chr5_5925191_AG_A		5	5925191
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M38175	chr5_5927843_G_A	rs112457873	5	5927843
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M38175	chr5_17968830_C_T	rs116780873	5	17968830
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M38175	chr5_78520604_C_T	rs12189541	5	78520604
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M38175	chr5_173785527_T_C	rs79901676	5	1.74E+08
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M38175	chr6_104921635_A_G	rs4946651	6	1.05E+08
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M38175	chr6_104952730_T_C	chr6_104952730_T_C	6	1.05E+08
M38175	chr6_104952962_A_G	chr6_104952962_A_G	6	1.05E+08
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M38175	chr13_45831409_T_C	rs68065966	13	45831409
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M38175	chr22_50793134_C_A	chr22_50793134_C_A	22	50793134
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M38395		chr15_84739426_G_A	rs189256958	15	84739426
M38395		chr16_73716647_ACACGCATG_A		16	73716647
M38395		chr16_86831175_T_C	rs9932829	16	86831175
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M38395		chr17_52104182_T_C	rs77100538	17	52104182
M38395		chr20_18512912_G_A	rs118107265	20	18512912
M38395		chr20_18525868_C_T	rs146917730	20	18525868
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M38395	M39587	chr4_140262814_G_GGA		4	1.4E+08
M38395	M39587	chr8_78943919_TC_T		8	78943919
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M38399	chr1_121248668_G_A	chr1_121248668_G_A	1	1.21E+08
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M38399	chr1_234106180_C_T	rs72758208	1	2.34E+08
M38399	chr1_248339222_G_A	rs112922043	1	2.48E+08
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M38625	chr7_12286061_G_C	rs6977943	7	12286061
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M39587		chr20_8559324_A_G	rs34048934	20	8559324
M39587		chr20_8562337_G_A	rs34058715	20	8562337
M39587		chr20_8568746_A_G	rs6086504	20	8568746
M39587		chr20_8570697_G_A	chr20_8570697_G_A	20	8570697
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M39587		chr20_17779987_C_T	rs7264107	20	17779987
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M39587	M43374	chr12_80190275_G_C	rs117534551	12	80190275
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M39587	M43507	chr12_98980501_C_T	rs145588954	12	98980501
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M39587	M46336	chr4_138888076_T_C	rs191558041	4	1.39E+08
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M39598		chr2_54885862_C_T	rs10181028	2	54885862
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M39598	chr3_65163173_A_T	rs956015	3	65163173
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M39598		chr9_87800749_G_A	rs9410635	9	87800749
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M39598		chr22_19375095_G_T	rs2073773	22	19375095
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M39630		chr18_73076929_A_G	rs2194633	18	73076929
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M40479		chr13_113956367_C_T	chr13_113956367_C_T	13	1.14E+08
M40479		chr15_25582322_TA_T		15	25582322
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M40479		chr15_61945304_C_G	rs143806793	15	61945304
M40479		chr18_7182108_G_T	rs150850141	18	7182108
M40479		chr20_29053561_C_A	chr20_29053561_C_A	20	29053561
M40479		chr20_36327516_C_G	rs141834594	20	36327516
M40479		chr20_37551225_G_A	rs111819584	20	37551225
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M40479		chr21_13821028_G_C	rs765030534	21	13821028
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M40479		chr21_21361430_G_GT		21	21361430
M40479		chr21_21646836_A_G	rs79258685	21	21646836
M40479		chr22_16802491_C_CT		22	16802491
M40481	M44577	chr7_78815026_C_T	rs117170351	7	78815026
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M40700		chr2_11604568_C_T	rs746579	2	11604568
M40700		chr2_11608459_C_A	rs4669755	2	11608459
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M40700	chr4_27473930_G_A	rs115877644	4	27473930
M40700	chr4_62288667_A_AGGAATTCAAGGTGATTTG		4	62288667
M40700	chr4_121073876_G_A	rs79574489	4	1.21E+08
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M40700	chr11_83407819_C_T	chr11_83407819_C_T	11	83407819
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M40700	chr17_81226677_G_A	rs35646862	17	81226677
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M41888		chr17_76758736_C_T	rs471943	17	76758736
M41888		chr18_50123413_A_G	rs115321826	18	50123413
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M41888		chr22_21881092_G_A	rs9754473	22	21881092
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M42081		chr1_230746703_T_C	rs7540252	1	2.31E+08
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M43374	chr16_60754399_T_G	rs8059255	16	60754399
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M43374	chr17_15185745_C_T	rs563720748	17	15185745
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M46142		chr16_19390810_C_T	rs149280068	16	19390810
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M46142		chr18_68542382_A_T	rs9961927	18	68542382
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M46142		chr22_26875637_C_T	rs114779244	22	26875637
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M46487	chr1_221131356_A_G	chr1_221131356_A_G	1	2.21E+08
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M46706	chr19_8129631_G_A	rs62123267	19	8129631
M46706	chr20_4292361_C_A	rs142080240	20	4292361
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M47203	chr4_155589168_T_C	chr4_155589168_T_C	4	1.56E+08
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M47203	chr8_112324582_G_GGT		8	1.12E+08
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M47204	chr8_112136980_A_AAC		8	1.12E+08
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M47308	chr2_240042854_G_A	rs76841013	2	2.4E+08
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M47308	chr4_138217741_C_A	rs6832329	4	1.38E+08
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M47308	chr4_138222593_G_A	rs6811062	4	1.38E+08
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M47330	chr19_7496125_C_T	rs12463123	19	7496125
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M47330	chr21_31564661_T_G	rs2833446	21	31564661
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M47337	chr4_33307133_C_G	rs73216149	4	33307133
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M47337	chr6_3193608_T_G	rs538148449	6	3193608
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M47337	chr11_8185504_G_A	rs112000123	11	8185504
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M47337	chr16_78294719_G_GAAGAAAGGAAAGGAGGGAGGGAG		16	78294719
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M47346	chr6_169765997_T_C	rs9383523	6	1.7E+08
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M47346	chr12_55376017_C_G	rs7487419	12	55376017
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M47346	chr17_11335675_A_C	rs6502144	17	11335675
M47346	chr17_35424296_T_A	rs9893390	17	35424296
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M47497	chr21_20862934_T_C	rs761341	21	20862934
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M47787	chr8_12569904_GTA_G		8	12569904
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M48118	chr9_77949171_G_A	rs117263769	9	77949171
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M48118	chr11_1495262_TTTC_T		11	1495262
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M48118	chr19_48242099_G_A	rs34895147	19	48242099
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M48118	chr19_48251529_C_A	rs12460147	19	48251529
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M48152	chr3_4503059_TG_T		3	4503059
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M48152	chr10_2799337_T_C	rs12761208	10	2799337
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M48152	chr11_58097830_T_C	chr11_58097830_T_C	11	58097830

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M48152		chr11_58122429_C_T	rs4939183	11	58122429
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M48152		chr11_88113428_A_G	rs494680	11	88113428
M48152		chr11_88114399_G_C	rs524121	11	88114399
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M48152		chr12_129214264_G_GT		12	1.29E+08
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M48152		chr14_102108032_A_G	rs145249562	14	1.02E+08
M48152		chr16_10661332_A_G	chr16_10661332_A_G	16	10661332
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M48152		chr17_50885356_G_A	rs58935650	17	50885356
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M48152		chr18_27398321_G_A	rs57810236	18	27398321
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M48191		chr3_179866003_C_T	rs67980618	3	1.8E+08
M48191		chr3_179883784_CA_C		3	1.8E+08

M48191	chr3_179898700_CTT_C		3	1.8E+08
M48191	chr4_56753597_C_T	rs899626	4	56753597
M48191	chr4_168414916_T_C	rs140732577	4	1.68E+08
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M48191	chr8_27068749_AACACACACAC_A		8	27068749
M48191	chr10_66813845_AGTGTGT_A		10	66813845
M48191	chr16_26662584_C_T	rs237193	16	26662584
M48191	chr17_10010236_A_G	rs9914699	17	10010236
M48191	chr17_10011454_T_G	rs9901298	17	10011454
M48191	chr17_10012253_A_G	rs9902678	17	10012253
M48191	chr17_10012498_G_C	rs9900892	17	10012498
M48191	chr17_37331094_CATTT_C		17	37331094
M48191	chr22_44539850_G_A	rs111065208	22	44539850
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M48258	chr1_197237132_GA_G		1	1.97E+08
M48258	chr1_209413500_T_C	rs184131533	1	2.09E+08
M48258	chr1_244255862_A_G	rs536243302	1	2.44E+08
M48258	chr2_12324423_A_ATGTGTGTG		2	12324423
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M48428	chr8_144962023_G_T	rs2978448	8	1.45E+08
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M48428	chr13_19797392_C_T	rs140310275	13	19797392
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M49650	chr6_18327706_G_C	rs1570628	6	18327706
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M49665	chr10_52720635_T_G	rs77763285	10	52720635
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M49665	chr19_46382977_G_A	rs45587933	19	46382977
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M52252	chr18_76681061_CA_C		18	76681061
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M52267	chr10_114264423_CT_C		10	1.14E+08
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M52267	chr16_83919779_A_G	rs66579515	16	83919779
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M52608	chr1_58837335_GGTGT_G		1	58837335
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M52608	chr7_28287524_G_A	rs177499	7	28287524
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M52625	chr6_150210663_G_A	rs9479953	6	1.5E+08
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M52625	chr10_59750801_G_A	rs6479648	10	59750801
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M52625	chr11_61953065_T_C	rs76675711	11	61953065
M52625	chr11_61972004_C_T	rs79645752	11	61972004
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M52625	chr18_52929817_AACACACACAC_A		18	52929817
M52625	chr19_14874156_T_TCAG		19	14874156
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M52625	chr20_18246526_G_A	rs4814709	20	18246526
M52625	chr20_22147072_T_C	rs708998	20	22147072
M52625	chr22_36240653_GGT_G		22	36240653
M52637	chr1_16729146_C_T	chr1_16729146_C_T	1	16729146
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M52637	chr1_25688876_T_C	rs1534948	1	25688876
M52637	chr1_206837674_C_A	rs2243196	1	2.07E+08
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M52637	chr1_240015904_G_A	rs10802830	1	2.4E+08
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M52637	chr3_111966527_G_GGGGT		3	1.12E+08
M52637	chr4_182102017_T_C	rs4862028	4	1.82E+08
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M52637	chr5_88305944_A_G	rs181770243	5	88305944
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M52637	chr5_109268158_T_C	rs12520021	5	1.09E+08
M52637	chr5_109268252_A_G	rs12522411	5	1.09E+08
M52637	chr5_109268413_A_C	rs60496657	5	1.09E+08
M52637	chr5_109269901_TA_T		5	1.09E+08
M52637	chr5_109270474_TATAAAGCA_T		5	1.09E+08
M52637	chr5_109270863_T_C	rs7720237	5	1.09E+08
M52637	chr5_109271834_T_C	rs10066766	5	1.09E+08
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M52637	chr7_109938455_AATCTC_A		7	1.1E+08
M52637	chr7_109940759_C_T	rs10487314	7	1.1E+08
M52637	chr7_120331371_TC_T		7	1.2E+08
M52637	chr7_155345511_G_A	rs117470096	7	1.55E+08

M52637	chr8_112643415_A_T	rs372574994	8	1.13E+08
M52637	chr8_112644366_C_T	rs4373545	8	1.13E+08
M52637	chr9_41118094_T_G	chr9_41118094_T_G	9	41118094
M52637	chr10_77848735_T_TA		10	77848735
M52637	chr10_77852347_G_C	rs1269823	10	77852347
M52637	chr10_93775676_G_A	rs144043561	10	93775676
M52637	chr11_98516840_G_A	rs12282270	11	98516840
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M53110	chr15_35022261_C_CA		15	35022261
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Allele 0	Allele 1	MAF	Beta	SE	p
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TA	T	0.03	-0.6982324	0.1531951	7.45E-06
T	C	0.01	-1.077408	0.2382011	8.68E-06
G	A	0.01	-0.9821665	0.2165108	8.19E-06
G	GA	0.03	0.7695672	0.1609024	2.71E-06
C	CT	0.01	1.16382	0.2502343	4.92E-06
C	T	0.03	0.7307285	0.1585314	5.93E-06
G	A	0.13	0.3759973	0.07889434	2.93E-06
T	G	0.01	-1.063465	0.223018	2.89E-06
A	G	0.03	0.6468228	0.1428009	8.44E-06
TA	T	0.31	-0.2580547	0.05698683	8.48E-06
T	C	0.07	-0.4426443	0.09810028	9.11E-06
C	T	0.07	-0.4434957	0.09821779	8.98E-06
C	T	0.07	-0.4656553	0.1027889	8.41E-06
C	T	0.07	-0.4618418	0.1017567	8.11E-06
C	A	0.07	-0.4834435	0.1048508	5.89E-06
GA	G	0.11	-0.4374541	0.08124818	1.52E-07
C	T	0.02	0.9721717	0.200124	1.92E-06
G	GA	0.07	-0.4774036	0.1048083	7.54E-06
C	T	0.07	-0.4758283	0.1059531	9.99E-06
T	G	0.07	-0.4641638	0.1018555	7.47E-06
T	C	0.08	-0.4562752	0.0983259	5.16E-06
T	C	0.07	-0.4742079	0.1025153	5.51E-06
A	G	0.07	-0.4799824	0.1028978	4.63E-06
T	C	0.07	-0.4742079	0.1025153	5.51E-06
G	A	0.04	0.5793433	0.1273025	7.68E-06
A	T	0.04	0.5989396	0.1299918	5.98E-06
C	A	0.01	-0.9965989	0.211957	3.91E-06
TG	T	0.02	0.7872438	0.1745583	9.20E-06
G	GGTGTGTGT	0.05	-0.615689	0.1232	9.96E-07
GTTTT	G	0.01	1.115328	0.2388785	4.54E-06
T	C	0.06	0.5074227	0.1111352	7.19E-06
ATG	A	0.2	0.3132945	0.06781523	5.66E-06
G	T	0.02	-0.8263751	0.1740076	3.16E-06
G	A	0.01	1.046375	0.231353	8.69E-06
G	A	0.02	0.9263897	0.1967956	3.82E-06
C	G	0.02	-0.8461962	0.1846394	6.66E-06
A	G	0.16	-0.3291027	0.07230853	7.66E-06
G	A	0.16	-0.3245126	0.07222494	9.90E-06
G	GTT	0.16	-0.3381197	0.07253053	4.69E-06
G	A	0.16	-0.3385692	0.07235195	4.33E-06
C	T	0.16	-0.3398021	0.072736	4.48E-06
C	T	0.16	-0.3398021	0.072736	4.48E-06
A	G	0.16	-0.3286836	0.07220891	7.65E-06
T	TATCC	0.1	0.4520489	0.09262243	1.72E-06
G	A	0.33	-0.2875601	0.05676421	7.19E-07
T	C	0.33	-0.2918653	0.05672243	4.90E-07
A	C	0.33	-0.2841421	0.05675927	9.56E-07
A	G	0.33	-0.2887055	0.05659865	6.08E-07

G	T	0.33	-0.2848872	0.05662074	8.47E-07
TATTA	T	0.33	-0.2871079	0.05711135	8.65E-07
C	T	0.33	-0.2918653	0.05672243	4.90E-07
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A	G	0.33	-0.2846653	0.05654004	8.34E-07
C	T	0.33	-0.2906133	0.05659122	5.15E-07
T	C	0.33	-0.2885139	0.05649406	5.91E-07
T	C	0.32	-0.2948499	0.05669559	3.75E-07
T	C	0.33	-0.2914955	0.05644524	4.48E-07
T	A	0.27	-0.2630959	0.05807697	8.42E-06
C	A	0.27	-0.2646352	0.05822794	7.89E-06
C	A	0.28	-0.2666071	0.05782913	5.90E-06
C	T	0.28	-0.2670846	0.05764455	5.33E-06
A	G	0.27	-0.2798354	0.05803376	2.26E-06
G	A	0.27	-0.2666394	0.05762708	5.48E-06
C	CGTGTGT	0.05	-0.5400103	0.1195007	8.84E-06
A	G	0.04	-0.6122003	0.1341531	7.27E-06
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A	G	0.03	-0.7038274	0.1515132	5.05E-06
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G	A	0.02	-1.017524	0.1871999	1.17E-07
G	A	0.01	-1.278419	0.2641452	2.08E-06
T	C	0.31	-0.2684595	0.05408095	1.17E-06
C	T	0.3	-0.2662865	0.05447957	1.67E-06
A	G	0.29	-0.2886499	0.05498628	2.95E-07
G	A	0.28	-0.2821152	0.05562437	6.99E-07
A	C	0.3	-0.248691	0.05416104	6.41E-06
T	C	0.27	-0.2719927	0.0558061	1.78E-06
G	GC	0.31	-0.2687267	0.05508896	1.74E-06
G	C	0.36	0.2891574	0.05531328	3.29E-07
CAG	C	0.08	0.4330086	0.09538065	8.07E-06
T	C	0.02	0.7825752	0.1654094	3.43E-06
T	C	0.09	0.4128094	0.08914309	5.38E-06
G	A	0.02	-0.9011276	0.1992904	8.73E-06
G	A	0.21	-0.3037373	0.06570817	5.59E-06
A	G	0.2	0.30295	0.06597147	6.40E-06
G	A	0.03	-0.7371563	0.1588581	5.16E-06
G	A	0.19	0.3009947	0.06550854	6.33E-06
T	TTC	0.05	-0.5758243	0.1212404	3.15E-06

C	G	0.01	-1.229749	0.2229135	7.77E-08
A	G	0.01	-1.220589	0.2447966	1.05E-06
C	T	0.01	-0.997138	0.2216576	9.67E-06
A	G	0.04	0.5839599	0.1271843	6.42E-06
C	T	0.11	0.3875997	0.08134798	2.94E-06
C	A	0.11	0.3678667	0.08131828	8.65E-06
G	T	0.04	0.644994	0.1341185	2.40E-06
G	A	0.16	-0.3200535	0.07025927	7.53E-06
C	T	0.34	0.2640294	0.0557512	3.35E-06
C	T	0.03	-0.8128364	0.1594267	6.15E-07
G	A	0.03	-0.143443	0.02400218	7.08E-09
A	T	0.07	0.2741182	0.04532304	5.01E-09
C	T	0.12	-0.2627079	0.04172582	1.22E-09
A	G	0.12	-0.2551104	0.04231429	5.28E-09
G	T	0.03	-0.1375602	0.02293184	6.25E-09
G	A	0.03	-0.1412996	0.02263371	1.65E-09
T	C	0.03	-0.1375602	0.02293184	6.25E-09
G	A	0.03	-0.1375602	0.02293184	6.25E-09
C	T	0.03	-0.1375602	0.02293184	6.25E-09
A	AACAC	0.04	-0.2816558	0.04552571	2.61E-09
G	A	0.03	-0.1528129	0.02558172	7.20E-09
C	G	0.02	-0.5476203	0.08840433	2.31E-09
C	G	0.02	-0.5476203	0.08840433	2.31E-09
A	G	0.02	-0.5476203	0.08840433	2.31E-09
C	T	0.02	-0.511201	0.08430233	4.68E-09
C	T	0.02	-0.5412784	0.08646468	1.61E-09
C	T	0.02	-0.5412784	0.08646468	1.61E-09
C	T	0.12	-0.212697	0.03543206	6.07E-09
A	T	0.07	-0.2052913	0.03421514	6.20E-09
G	C	0.06	-0.2075078	0.03475864	7.29E-09
GGTGTGTGTGTGT	G	0.01	-0.941103	0.1432278	2.59E-10
T	A	0.01	0.8176027	0.1370618	7.44E-09
C	CTT	0.05	-0.4839778	0.1014208	2.84E-06
C	T	0.1	-0.4227739	0.09135309	5.46E-06
T	C	0.1	-0.4227739	0.09135309	5.46E-06
A	G	0.1	-0.4227739	0.09135309	5.46E-06
T	C	0.1	-0.4227739	0.09135309	5.46E-06
G	T	0.1	-0.4227739	0.09135309	5.46E-06
C	T	0.1	-0.4204987	0.09107202	5.72E-06
A	G	0.1	-0.4204987	0.09107202	5.72E-06
T	C	0.1	-0.4136877	0.09061279	7.20E-06
C	T	0.1	-0.4158395	0.0908836	6.89E-06
A	G	0.1	-0.4158395	0.0908836	6.89E-06
C	G	0.1	-0.4158395	0.0908836	6.89E-06
C	T	0.02	0.810904	0.1772986	6.95E-06
C	T	0.08	0.517323	0.1044109	1.22E-06
C	T	0.08	0.4864266	0.103324	3.81E-06
C	G	0.08	0.4650258	0.09829356	3.43E-06
G	T	0.08	0.4732798	0.1010098	4.21E-06
C	CT	0.08	0.4732225	0.1037778	7.38E-06

CAT	C	0.08	0.4749565	0.1023609	5.17E-06
C	T	0.14	-0.3503035	0.0742698	3.66E-06
GA	G	0.11	-0.3688605	0.08197524	9.62E-06
G	A	0.16	-0.3124391	0.06947404	9.72E-06
C	A	0.03	-0.6827208	0.1454295	4.04E-06
C	T	0.02	-0.8892872	0.1963367	8.44E-06
C	T	0.02	-0.7876303	0.1722265	6.96E-06
C	G	0.13	-0.3733318	0.07844968	3.02E-06
TG	T	0.12	-0.4120592	0.07973437	4.40E-07
C	A	0.12	-0.4336533	0.08021773	1.36E-07
G	A	0.12	-0.4087151	0.07986287	5.61E-07
CGT	C	0.01	1.191124	0.2501979	2.99E-06
T	TACAC	0.02	0.777351	0.1720592	8.88E-06
A	G	0.37	0.2599824	0.05488223	3.33E-06
A	C	0.37	0.2614108	0.05497698	3.07E-06
G	A	0.37	0.2603534	0.05500066	3.39E-06
T	C	0.37	0.2621458	0.05523307	3.20E-06
G	GTAGC	0.35	0.2699554	0.05605409	2.32E-06
C	G	0.37	0.2602456	0.05571543	4.50E-06
G	A	0.01	-1.190926	0.2427966	1.54E-06
G	A	0.04	0.6531297	0.1407736	5.18E-06
C	T	0.04	0.6324384	0.1396531	8.47E-06
G	A	0.24	-0.2867551	0.05809729	1.33E-06
T	C	0.06	0.5152406	0.1110963	5.22E-06
C	T	0.12	-0.3924306	0.08183431	2.55E-06
TTA	T	0.15	-0.3630118	0.07714209	3.84E-06
A	AC	0.14	-0.3811655	0.078448	1.91E-06
T	A	0.32	-0.26155	0.05760322	8.04E-06
G	C	0.32	-0.2625303	0.05763699	7.55E-06
G	C	0.23	-0.2864833	0.06264832	6.97E-06
C	T	0.13	-0.3855525	0.07845731	1.47E-06
C	T	0.13	-0.406626	0.07845218	4.09E-07
T	A	0.13	-0.3962825	0.07838647	7.56E-07
G	T	0.12	-0.3997684	0.08159381	1.58E-06
T	C	0.16	0.329038	0.07032678	4.34E-06
C	A	0.16	0.3457215	0.07030441	1.45E-06
G	A	0.17	0.3165917	0.06964299	7.85E-06
T	C	0.16	0.3304552	0.06926931	2.86E-06
G	A	0.16	0.3428565	0.07082448	2.07E-06
A	G	0.16	0.3251135	0.06963096	4.54E-06
T	C	0.16	0.3255624	0.07109767	6.78E-06
A	G	0.16	0.3280163	0.06950296	3.61E-06
G	A	0.18	0.3068867	0.0681083	9.36E-06
G	A	0.01	1.080418	0.2402078	9.70E-06
C	T	0.02	-1.034468	0.2111017	1.57E-06
C	CA	0.01	-1.044888	0.2199227	3.13E-06
TAG	T	0.15	0.3313565	0.07358323	9.47E-06
A	AT	0.02	-0.8460962	0.1830891	5.62E-06
C	A	0.15	-0.3468415	0.07476017	5.18E-06
G	A	0.02	0.8074672	0.1795141	9.69E-06

A	G	0.02	0.8074672	0.1795141	9.69E-06
C	A	0.02	0.9020238	0.1906633	3.43E-06
A	G	0.01	1.129516	0.2248529	8.81E-07
G	A	0.02	0.9004403	0.1985669	8.25E-06
C	A	0.14	0.3467386	0.07631792	7.94E-06
C	T	0.14	0.3482308	0.07398044	3.82E-06
C	A	0.1	0.4112798	0.09063165	8.13E-06
G	A	0.02	1.065084	0.2154973	1.29E-06
G	A	0.02	1.065084	0.2154973	1.29E-06
C	A	0.02	1.065084	0.2154973	1.29E-06
A	C	0.02	1.065084	0.2154973	1.29E-06
A	G	0.02	1.014428	0.2105971	2.31E-06
AT	A	0.06	0.4881518	0.09982477	1.65E-06
T	A	0.01	1.105588	0.2244346	1.39E-06
CT	C	0.01	-1.114608	0.2439792	7.11E-06
T	C	0.02	0.8236273	0.1774942	5.16E-06
T	C	0.03	0.7580829	0.1642601	5.78E-06
G	A	0.39	0.24332	0.0538927	9.00E-06
T	G	0.25	-0.2748075	0.06092782	9.18E-06
G	C	0.25	-0.2748075	0.06092782	9.18E-06
A	G	0.25	-0.2756365	0.06047217	7.44E-06
CTGGATGGA	C	0.01	-1.034394	0.228984	8.90E-06
A	AT	0.02	0.8825404	0.1958545	9.35E-06
G	A	0.46	0.2482601	0.05438738	7.23E-06
G	C	0.25	0.2965751	0.06096202	1.85E-06
C	G	0.31	0.2727308	0.05692507	2.61E-06
A	G	0.41	0.274032	0.05345664	5.38E-07
G	A	0.43	0.245822	0.05376677	7.00E-06
C	T	0.38	0.2639702	0.05327836	1.22E-06
T	C	0.38	0.2597612	0.05328634	1.77E-06
A	G	0.39	0.2593555	0.05329716	1.84E-06
A	G	0.39	0.2579381	0.05318628	1.99E-06
T	C	0.38	0.2604287	0.0533566	1.72E-06
A	G	0.38	0.2687816	0.05311994	7.40E-07
C	T	0.32	0.2566168	0.05509711	4.78E-06
T	C	0.33	0.2527139	0.05503147	6.40E-06
T	TCA	0.38	0.2610454	0.05317809	1.51E-06
T	G	0.38	0.2697138	0.05316217	6.94E-07
C	G	0.4	0.2720535	0.05305695	5.35E-07
T	C	0.33	0.2649187	0.05510289	2.41E-06
T	C	0.36	0.2592394	0.05289778	1.57E-06
T	C	0.37	0.2557399	0.05301268	2.24E-06
C	CACTT	0.28	0.2577171	0.0567529	8.02E-06
G	A	0.29	0.2566251	0.05656679	8.18E-06
C	T	0.05	0.3183432	0.05376019	9.41E-09
CGT	C	0.01	0.7627166	0.1135491	1.22E-10
C	T	0.12	-0.2497597	0.04161017	6.09E-09
A	G	0.01	0.4681952	0.07835302	7.06E-09
T	C	0.01	0.4681952	0.07835302	7.06E-09
T	A	0.01	0.4681952	0.07835302	7.06E-09

C	T	0.01	0.9500568	0.1337057	1.13E-11
T	G	0.01	0.9500568	0.1337057	1.13E-11
T	TC	0.01	0.7603897	0.1160092	2.84E-10
A	G	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
A	T	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
C	T	0.01	0.7603897	0.1160092	2.84E-10
C	T	0.01	0.7603897	0.1160092	2.84E-10
T	C	0.01	0.7603897	0.1160092	2.84E-10
C	G	0.01	0.7603897	0.1160092	2.84E-10
G	C	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
T	C	0.01	0.7603897	0.1160092	2.84E-10
AC	A	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
A	G	0.01	0.7603897	0.1160092	2.84E-10
C	T	0.01	0.7603897	0.1160092	2.84E-10
C	T	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7355475	0.1207008	3.72E-09
G	A	0.01	0.7603897	0.1160092	2.84E-10
G	T	0.01	0.7603897	0.1160092	2.84E-10
G	A	0.01	0.7603897	0.1160092	2.84E-10
A	G	0.01	0.7603897	0.1160092	2.84E-10
T	C	0.02	0.6990204	0.1136701	2.74E-09
A	G	0.02	0.6990204	0.1136701	2.74E-09
T	C	0.02	0.6990204	0.1136701	2.74E-09
C	G	0.02	0.6990204	0.1136701	2.74E-09
C	T	0.02	0.6990204	0.1136701	2.74E-09
AG	A	0.02	0.6990204	0.1136701	2.74E-09
T	A	0.02	0.6990204	0.1136701	2.74E-09
A	G	0.02	0.6990204	0.1136701	2.74E-09
A	G	0.02	0.7378507	0.1074374	4.63E-11
A	AT	0.02	0.6990204	0.1136701	2.74E-09
C	G	0.02	-0.5748862	0.08275393	3.26E-11
C	G	0.02	-0.5748862	0.08275393	3.26E-11
A	G	0.02	-0.5748862	0.08275393	3.26E-11
C	T	0.02	-0.5329541	0.07900089	1.05E-10
C	T	0.02	-0.5574263	0.08111042	5.04E-11
C	T	0.02	-0.5574263	0.08111042	5.04E-11
C	T	0.02	-0.5018539	0.07776615	5.53E-10
T	G	0.01	-0.6621314	0.1002907	2.39E-10
G	T	0.01	-0.6621314	0.1002907	2.39E-10
GA	G	0.01	-0.6621314	0.1002907	2.39E-10
T	C	0.01	-0.6621314	0.1002907	2.39E-10
A	G	0.02	-0.581074	0.09431608	2.78E-09
C	T	0.02	0.3424683	0.0575551	8.25E-09
C	T	0.03	-0.2627351	0.04197289	1.50E-09

T	C	0.01	-0.6487532	0.1069284	4.99E-09
A	G	0.02	0.4828782	0.0798928	4.97E-09
A	C	0.01	0.4840452	0.08073529	6.40E-09
C	T	0.03	0.4960479	0.08191337	4.80E-09
G	C	0.27	0.1738498	0.02925997	8.97E-09
G	A	0.27	0.1738498	0.02925997	8.97E-09
G	A	0.27	0.1738498	0.02925997	8.97E-09
A	G	0.27	0.1735536	0.02907014	7.70E-09
A	G	0.41	0.152481	0.02504849	4.10E-09
T	C	0.41	0.152481	0.02504849	4.10E-09
T	TC	0.01	0.910878	0.1323112	4.54E-11
A	G	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
A	T	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
C	T	0.01	0.910878	0.1323112	4.54E-11
C	T	0.01	0.910878	0.1323112	4.54E-11
T	C	0.01	0.910878	0.1323112	4.54E-11
C	G	0.01	0.910878	0.1323112	4.54E-11
G	C	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
T	C	0.01	0.910878	0.1323112	4.54E-11
AC	A	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
A	G	0.01	0.910878	0.1323112	4.54E-11
C	T	0.01	0.910878	0.1323112	4.54E-11
C	T	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.910878	0.1323112	4.54E-11
G	A	0.01	0.8773561	0.1379016	8.96E-10
G	A	0.01	0.910878	0.1323112	4.54E-11
G	T	0.01	0.910878	0.1323112	4.54E-11
A	T	0.01	0.8966189	0.1504294	8.01E-09
G	A	0.01	0.910878	0.1323112	4.54E-11
A	G	0.01	0.910878	0.1323112	4.54E-11
T	C	0.02	0.8695525	0.1292087	1.11E-10
A	G	0.02	0.8695525	0.1292087	1.11E-10
T	C	0.02	0.8695525	0.1292087	1.11E-10
C	G	0.02	0.8695525	0.1292087	1.11E-10
C	T	0.02	0.8695525	0.1292087	1.11E-10
C	T	0.01	0.8944116	0.1410605	1.01E-09
AG	A	0.02	0.8695525	0.1292087	1.11E-10
T	A	0.02	0.8695525	0.1292087	1.11E-10
A	G	0.02	0.8695525	0.1292087	1.11E-10
T	TG	0.01	0.8445192	0.1411471	7.09E-09
A	G	0.02	0.8995931	0.1219317	2.39E-12
A	AT	0.02	0.8695525	0.1292087	1.11E-10
G	GACAC	0.02	0.480738	0.08038427	7.35E-09
G	A	0.03	0.5462114	0.08597289	9.45E-10
T	TA	0.05	0.3970623	0.06587255	5.60E-09

T	TA	0.02	0.9262283	0.1924468	2.60E-06
A	G	0.01	1.286942	0.2555933	9.39E-07
A	G	0.02	0.8796489	0.1940572	8.99E-06
A	G	0.02	1.016787	0.2076796	1.79E-06
T	TTG	0.02	1.016787	0.2076796	1.79E-06
G	C	0.02	1.016787	0.2076796	1.79E-06
T	A	0.02	1.016787	0.2076796	1.79E-06
T	C	0.02	1.016787	0.2076796	1.79E-06
A	AGTTAACATC	0.02	1.056024	0.2106546	1.04E-06
A	AAT	0.01	1.265763	0.2535657	1.15E-06
T	A	0.02	0.9594919	0.2037059	4.13E-06
T	C	0.02	0.9594919	0.2037059	4.13E-06
T	A	0.02	0.9594919	0.2037059	4.13E-06
G	C	0.02	0.9594919	0.2037059	4.13E-06
C	G	0.02	0.9594919	0.2037059	4.13E-06
T	C	0.02	0.990262	0.2132125	5.52E-06
C	G	0.02	0.9594919	0.2037059	4.13E-06
T	TA	0.02	1.015605	0.207997	1.90E-06
C	T	0.02	0.9348104	0.1919526	2.01E-06
C	T	0.02	0.9667575	0.2134886	9.16E-06
C	A	0.02	0.9667575	0.2134886	9.16E-06
T	A	0.02	0.9667575	0.2134886	9.16E-06
GCA	G	0.04	-0.7295522	0.1415368	5.35E-07
G	A	0.04	0.6463913	0.142565	8.94E-06
G	A	0.04	0.6463913	0.142565	8.94E-06
C	T	0.04	0.6463913	0.142565	8.94E-06
T	C	0.01	1.318958	0.2629682	1.03E-06
C	A	0.01	1.318958	0.2629682	1.03E-06
C	T	0.04	0.7821861	0.1526187	6.15E-07
C	T	0.04	0.6719023	0.1419613	3.73E-06
A	G	0.04	0.717162	0.1493437	2.73E-06
C	G	0.02	0.9025977	0.1938578	5.25E-06
A	G	0.39	-0.2623016	0.05739143	7.64E-06
G	A	0.4	-0.2614075	0.05764888	8.93E-06
A	G	0.4	-0.2614075	0.05764888	8.93E-06
C	G	0.39	-0.2599168	0.05764846	9.98E-06
T	TA	0.02	0.9945465	0.2124674	4.70E-06
G	A	0.02	0.9945465	0.2124674	4.70E-06
T	C	0.07	0.6200352	0.1168293	2.58E-07
GGGAGCCCAGTGA	G	0.07	0.5767968	0.1175981	1.71E-06
G	A	0.09	0.5420045	0.1043446	4.43E-07
T	TTTTTTG	0.18	-0.3728626	0.07829269	3.27E-06
T	TTTG	0.34	0.2778254	0.06142289	9.37E-06
C	T	0.35	0.2884263	0.06151346	4.54E-06
C	A	0.36	0.2833349	0.06071015	5.00E-06
G	A	0.37	0.2737227	0.06068407	9.89E-06
C	T	0.37	0.2811177	0.0606539	5.76E-06
C	T	0.37	0.282727	0.06254124	9.48E-06
A	G	0.38	0.2892627	0.06242663	5.79E-06
.ACAGAAATGAAGAAT	C	0.08	-0.4768245	0.103989	7.15E-06

G	A	0.09	-0.4748317	0.09912708	2.89E-06
A	G	0.09	-0.4794136	0.09863591	2.10E-06
TA	T	0.09	-0.4794136	0.09863591	2.10E-06
ATG	A	0.09	-0.4794136	0.09863591	2.10E-06
T	G	0.09	-0.4794136	0.09863591	2.10E-06
T	G	0.09	-0.4794136	0.09863591	2.10E-06
C	T	0.09	-0.5025038	0.09903042	7.82E-07
A	G	0.09	-0.4794136	0.09863591	2.10E-06
T	A	0.09	-0.4794136	0.09863591	2.10E-06
C	G	0.09	-0.4783733	0.09903437	2.41E-06
G	A	0.09	-0.4734087	0.1023003	5.95E-06
T	G	0.1	-0.4702752	0.09805154	2.81E-06
A	AT	0.09	-0.4647502	0.1002343	5.71E-06
T	C	0.1	-0.4702752	0.09805154	2.81E-06
A	T	0.1	-0.4702752	0.09805154	2.81E-06
A	G	0.1	-0.4702752	0.09805154	2.81E-06
A	T	0.1	-0.4702752	0.09805154	2.81E-06
T	A	0.1	-0.4702752	0.09805154	2.81E-06
G	A	0.09	-0.4597271	0.09990405	6.66E-06
C	T	0.09	-0.4551599	0.09922286	7.10E-06
CAT	C	0.09	-0.4551599	0.09922286	7.10E-06
G	A	0.09	-0.4551599	0.09922286	7.10E-06
T	C	0.09	-0.4551599	0.09922286	7.10E-06
G	A	0.09	-0.4551599	0.09922286	7.10E-06
C	T	0.09	-0.4551599	0.09922286	7.10E-06
C	T	0.09	-0.4551599	0.09922286	7.10E-06
C	T	0.09	-0.4551599	0.09922286	7.10E-06
A	C	0.09	-0.4551599	0.09922286	7.10E-06
CA	C	0.09	-0.4551599	0.09922286	7.10E-06
C	A	0.32	0.28929	0.06306549	7.10E-06
ACACACACACACACA	A	0.02	0.9634133	0.2022621	3.26E-06
G	A	0.38	0.2883546	0.06351511	8.72E-06
A	G	0.01	-1.19878	0.2510402	3.09E-06
A	G	0.01	1.278811	0.26739	2.99E-06
A	G	0.02	1.120401	0.2311429	2.23E-06
G	A	0.02	0.9963722	0.2104822	3.72E-06
A	T	0.05	0.6358616	0.1385277	7.01E-06
G	A	0.04	0.6905686	0.1530884	9.88E-06
A	AC	0.05	0.6347821	0.1364706	5.35E-06
C	T	0.04	0.6852593	0.1516293	9.53E-06
G	A	0.04	0.6852593	0.1516293	9.53E-06
C	T	0.04	0.6852593	0.1516293	9.53E-06
T	C	0.04	0.6852593	0.1516293	9.53E-06
G	A	0.04	0.6852593	0.1516293	9.53E-06
C	T	0.04	0.6852593	0.1516293	9.53E-06
C	CT	0.05	0.6347821	0.1364706	5.35E-06
C	G	0.03	0.7419023	0.1606233	6.18E-06
G	A	0.09	-0.4374562	0.09560974	7.47E-06
C	G	0.09	-0.4462468	0.09601985	5.45E-06
C	G	0.09	-0.4347605	0.09593881	9.04E-06

G	A	0.09	-0.4513359	0.09676081	5.06E-06
T	C	0.09	-0.4513359	0.09676081	5.06E-06
G	C	0.09	-0.4513359	0.09676081	5.06E-06
A	G	0.22	0.3448322	0.06824635	8.64E-07
T	C	0.22	0.3422194	0.06917059	1.41E-06
C	T	0.47	-0.260911	0.05609051	5.35E-06
C	G	0.47	-0.2706143	0.05608214	2.46E-06
C	A	0.47	-0.2682124	0.05621463	3.14E-06
AG	A	0.47	-0.2678183	0.05600617	2.99E-06
G	C	0.48	-0.2561545	0.05583956	7.09E-06
T	C	0.05	0.5753683	0.1268635	8.89E-06
C	T	0.05	0.573075	0.1264872	9.07E-06
C	G	0.02	0.8794699	0.1929853	8.09E-06
A	G	0.02	1.027603	0.2255254	8.11E-06
C	G	0.02	0.9223176	0.1982708	5.35E-06
A	G	0.02	0.8795577	0.1918779	7.20E-06
C	T	0.11	-0.454977	0.09744486	4.95E-06
A	T	0.02	1.005943	0.219638	7.32E-06
GCA	G	0.04	-0.3026581	0.04997121	5.83E-09
C	T	0.02	-0.6356603	0.1045734	5.36E-09
TTTTG	T	0.02	0.6156014	0.1024551	7.50E-09
GCA	G	0.04	-0.3219175	0.05224966	3.35E-09
GCA	G	0.04	-0.3281811	0.05380475	4.65E-09
G	A	0.09	0.2397356	0.03953302	5.60E-09
A	AAT	0.01	0.5904835	0.0957158	3.22E-09
G	GGTGT	0.03	0.4492654	0.07512944	8.73E-09
GCA	G	0.04	-0.3283278	0.05316856	3.11E-09
A	T	0.03	0.5788208	0.09555726	5.82E-09
A	G	0.03	0.5788208	0.09555726	5.82E-09
C	T	0.01	1.128289	0.1727097	4.48E-10
T	G	0.01	1.128289	0.1727097	4.48E-10
T	TC	0.01	1.036002	0.1552597	2.07E-10
A	G	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
A	T	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.036002	0.1552597	2.07E-10
T	C	0.01	1.036002	0.1552597	2.07E-10
C	G	0.01	1.036002	0.1552597	2.07E-10
G	C	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
T	C	0.01	1.036002	0.1552597	2.07E-10
AC	A	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
A	G	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10

G	A	0.01	0.9485215	0.1584855	8.51E-09
G	A	0.01	1.036002	0.1552597	2.07E-10
G	T	0.01	1.036002	0.1552597	2.07E-10
G	A	0.01	1.036002	0.1552597	2.07E-10
A	G	0.01	1.036002	0.1552597	2.07E-10
T	C	0.01	1.036002	0.1552597	2.07E-10
A	G	0.01	1.036002	0.1552597	2.07E-10
T	C	0.01	1.036002	0.1552597	2.07E-10
C	G	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.036002	0.1552597	2.07E-10
C	T	0.01	1.1283	0.1718916	3.78E-10
AG	A	0.01	1.036002	0.1552597	2.07E-10
T	A	0.01	1.036002	0.1552597	2.07E-10
A	G	0.01	1.036002	0.1552597	2.07E-10
A	G	0.02	1.032707	0.1465527	2.49E-11
A	AT	0.01	1.036002	0.1552597	2.07E-10
T	TTATA	0.02	0.9007981	0.150961	9.34E-09
T	TGTG	0.01	1.105113	0.185439	9.72E-09
T	C	0.01	1.105113	0.185439	9.72E-09
A	C	0.01	1.105113	0.185439	9.72E-09
TA	T	0.01	1.105113	0.185439	9.72E-09
T	A	0.01	1.105113	0.185439	9.72E-09
G	T	0.01	1.105113	0.185439	9.72E-09
G	T	0.01	1.105113	0.185439	9.72E-09
C	A	0.01	1.105113	0.185439	9.72E-09
C	T	0.01	1.105113	0.185439	9.72E-09
A	G	0.01	1.105113	0.185439	9.72E-09
G	A	0.01	1.105113	0.185439	9.72E-09
G	C	0.01	1.105113	0.185439	9.72E-09
T	C	0.01	1.187454	0.1935246	3.84E-09
T	A	0.01	1.187454	0.1935246	3.84E-09
C	G	0.01	1.187454	0.1935246	3.84E-09
G	T	0.01	1.187454	0.1935246	3.84E-09
G	A	0.01	1.187454	0.1935246	3.84E-09
T	G	0.01	1.187454	0.1935246	3.84E-09
A	G	0.22	0.1803677	0.03015121	8.90E-09
A	T	0.01	0.9995954	0.1521189	3.64E-10
G	A	0.01	0.9995954	0.1521189	3.64E-10
C	A	0.01	0.8964286	0.1465656	4.27E-09
G	A	0.01	0.8967911	0.1465877	4.26E-09
T	C	0.07	0.3441182	0.05634966	4.54E-09
T	C	0.01	1.094689	0.1791974	4.72E-09
C	A	0.01	1.094689	0.1791974	4.72E-09
T	C	0.22	0.2095029	0.03423702	5.29E-09
A	G	0.01	-0.5786066	0.09562765	6.14E-09
C	T	0.01	-0.5786066	0.09562765	6.14E-09
G	GT	0.01	-0.5786066	0.09562765	6.14E-09
T	TAC	0.38	0.2839196	0.05810837	1.68E-06
A	G	0.03	-0.6744981	0.1470255	6.53E-06
G	GACACAC	0.12	-0.4057296	0.08264873	1.51E-06

G	A	0.24	0.2592469	0.05743808	9.06E-06
T	C	0.02	-0.9344147	0.2072396	9.24E-06
CT	C	0.02	-0.8755435	0.1864526	4.02E-06
T	A	0.02	-0.9081603	0.1925713	3.67E-06
G	A	0.01	-1.128775	0.2286211	1.32E-06
G	A	0.02	-0.9851074	0.2134436	5.77E-06
C	T	0.01	-1.092242	0.2429523	9.79E-06
A	G	0.01	-1.348314	0.2550748	2.47E-07
T	C	0.01	-1.186581	0.2469962	2.46E-06
C	T	0.01	-1.186581	0.2469962	2.46E-06
G	A	0.01	-1.186581	0.2469962	2.46E-06
A	G	0.33	0.2614648	0.05578798	4.19E-06
A	T	0.01	-1.206911	0.2374692	6.65E-07
G	A	0.03	-0.8046954	0.1628126	1.29E-06
T	C	0.01	-1.097648	0.2181558	8.48E-07
T	A	0.04	-0.5842426	0.1248794	4.35E-06
GA	G	0.11	-0.3729378	0.0811125	6.24E-06
C	CA	0.04	-0.6343867	0.1383121	6.56E-06
TGTGTGACA	T	0.03	-0.7042758	0.1448192	1.87E-06
C	A	0.04	-0.5843437	0.1300579	9.91E-06
G	A	0.04	-0.5843437	0.1300579	9.91E-06
G	T	0.04	-0.5843437	0.1300579	9.91E-06
G	GA	0.03	-0.7545663	0.1446776	3.49E-07
T	C	0.02	-0.8457826	0.1840326	6.30E-06
A	C	0.15	0.3315772	0.06921507	2.61E-06
C	T	0.2	0.2972215	0.06503971	7.07E-06
T	C	0.22	0.2828712	0.06182221	6.89E-06
G	A	0.33	-0.2545344	0.05499403	5.45E-06
T	C	0.38	0.2405739	0.05350441	9.77E-06
T	C	0.03	-0.7599726	0.1691554	9.92E-06
A	AGTGTGT	0.01	-1.065929	0.2176409	1.59E-06
T	TTG	0.03	-0.7724984	0.1662229	5.00E-06
T	G	0.01	-1.109526	0.2352587	3.67E-06
C	A	0.01	-1.109526	0.2352587	3.67E-06
A	G	0.01	-1.108375	0.2449371	8.61E-06
A	G	0.01	-1.109526	0.2352587	3.67E-06
T	TG	0.01	-1.109526	0.2352587	3.67E-06
G	A	0.01	-1.109526	0.2352587	3.67E-06
C	A	0.01	-1.220944	0.2445038	1.02E-06
T	C	0.01	-1.220944	0.2445038	1.02E-06
G	A	0.01	-1.220944	0.2445038	1.02E-06
C	T	0.01	-1.220944	0.2445038	1.02E-06
G	C	0.04	-0.5963767	0.1310025	7.63E-06
A	G	0.04	-0.5963767	0.1310025	7.63E-06
GA	G	0.04	-0.5963767	0.1310025	7.63E-06
G	T	0.18	-0.3324576	0.07054691	3.73E-06
T	C	0.19	-0.3132242	0.06909402	8.30E-06
A	C	0.07	-0.4902388	0.100947	1.93E-06
T	C	0.18	-0.3473995	0.06996071	1.16E-06
C	T	0.18	-0.3363178	0.07037011	2.75E-06

A	T	0.18	-0.3224388	0.07094108	7.88E-06
A	G	0.18	-0.3339154	0.0703267	3.17E-06
C	T	0.18	-0.3354097	0.07032522	2.88E-06
C	T	0.18	-0.3363178	0.07037011	2.75E-06
G	T	0.18	-0.327427	0.07118619	6.19E-06
C	T	0.18	-0.3299131	0.07123596	5.38E-06
G	T	0.18	-0.3339154	0.0703267	3.17E-06
CAAGT	C	0.18	-0.3318313	0.07042719	3.74E-06
G	A	0.18	-0.3339154	0.0703267	3.17E-06
C	T	0.18	-0.3363178	0.07037011	2.75E-06
A	C	0.18	-0.3339154	0.0703267	3.17E-06
C	G	0.18	-0.3339154	0.0703267	3.17E-06
G	A	0.18	-0.3363178	0.07037011	2.75E-06
C	T	0.18	-0.3339154	0.0703267	3.17E-06
C	T	0.18	-0.3339154	0.0703267	3.17E-06
G	A	0.18	-0.3339154	0.0703267	3.17E-06
T	C	0.18	-0.3354514	0.07037057	2.91E-06
A	G	0.18	-0.3367222	0.07050733	2.80E-06
T	C	0.18	-0.3332522	0.07047461	3.47E-06
T	A	0.18	-0.3339154	0.0703267	3.17E-06
G	A	0.18	-0.3339154	0.0703267	3.17E-06
G	A	0.07	-0.4902388	0.100947	1.93E-06
G	T	0.18	-0.3339154	0.0703267	3.17E-06
C	T	0.18	-0.3339154	0.0703267	3.17E-06
C	G	0.01	-1.250444	0.252557	1.24E-06
A	AGTGTGT	0.01	-1.180834	0.2352471	8.97E-07
G	A	0.02	-0.8584476	0.1901569	9.02E-06
C	CT	0.02	-0.9865036	0.2137606	5.78E-06
G	T	0.02	-0.7598079	0.1684056	9.13E-06
C	T	0.03	-0.7601505	0.1641286	5.37E-06
T	C	0.17	-0.3191731	0.06980075	6.98E-06
C	G	0.17	-0.3207059	0.06886482	4.79E-06
A	G	0.17	-0.3191804	0.06896214	5.45E-06
C	T	0.02	-0.9512134	0.2085072	7.32E-06
C	T	0.28	0.2589256	0.05527195	4.23E-06
G	A	0.02	-0.7857473	0.1696732	5.39E-06
T	A	0.02	-0.9822752	0.213684	6.27E-06
G	A	0.33	-0.2488597	0.05448194	7.13E-06
C	CTGTT	0.13	-0.3360186	0.07418654	8.45E-06
G	A	0.02	-0.943448	0.2092341	9.24E-06
G	C	0.06	0.4781833	0.1062345	9.56E-06
CT	C	0.37	0.2751804	0.05435677	7.31E-07
C	T	0.04	-0.6448055	0.1421223	8.17E-06
G	A	0.17	-0.3134118	0.06860961	7.12E-06
C	T	0.02	-0.7761217	0.1722404	9.36E-06
G	A	0.02	-0.7761217	0.1722404	9.36E-06
C	T	0.02	-0.7761217	0.1722404	9.36E-06
T	C	0.02	-0.7761217	0.1722404	9.36E-06
C	A	0.02	-1.049914	0.2009429	3.34E-07
C	T	0.02	-1.019295	0.1869848	1.08E-07

T	G	0.02	-1.019295	0.1869848	1.08E-07
C	T	0.02	-0.9017138	0.1826839	1.33E-06
G	T	0.02	-1.070653	0.1890344	3.66E-08
T	C	0.02	-0.783722	0.1705518	6.32E-06
C	T	0.03	-0.7494855	0.1578701	3.18E-06
C	T	0.03	-0.7494855	0.1578701	3.18E-06
C	T	0.03	-0.7494855	0.1578701	3.18E-06
A	G	0.03	-0.7494855	0.1578701	3.18E-06
G	A	0.02	-0.8536021	0.1675431	6.27E-07
T	C	0.02	-0.8536021	0.1675431	6.27E-07
C	T	0.02	-0.8536021	0.1675431	6.27E-07
C	A	0.02	-0.8536021	0.1675431	6.27E-07
T	TA	0.02	-0.8536021	0.1675431	6.27E-07
G	A	0.02	-0.8536021	0.1675431	6.27E-07
G	A	0.02	-0.8536021	0.1675431	6.27E-07
T	C	0.02	-0.7969155	0.165579	2.36E-06
G	A	0.02	-0.7969155	0.165579	2.36E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.7827554	0.1679605	4.72E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	T	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.8037807	0.1653882	1.90E-06
T	A	0.02	-0.8037807	0.1653882	1.90E-06
T	A	0.03	-0.7095482	0.1525288	4.90E-06
T	C	0.03	-0.7095482	0.1525288	4.90E-06
A	T	0.03	-0.7095482	0.1525288	4.90E-06
G	C	0.03	-0.7095482	0.1525288	4.90E-06
A	G	0.03	-0.7095482	0.1525288	4.90E-06
A	C	0.03	-0.7095482	0.1525288	4.90E-06
T	C	0.03	-0.7095482	0.1525288	4.90E-06
A	AT	0.03	-0.7095482	0.1525288	4.90E-06
C	A	0.03	-0.7095482	0.1525288	4.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
A	C	0.02	-0.8037807	0.1653882	1.90E-06
C	G	0.02	-0.7919864	0.1680224	3.71E-06
C	G	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.03	-0.716159	0.1574389	7.76E-06
T	C	0.02	-0.8378844	0.1666744	8.66E-07

C	CA	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
T	G	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.8037807	0.1653882	1.90E-06
T	G	0.02	-0.8037807	0.1653882	1.90E-06
G	C	0.02	-0.8037807	0.1653882	1.90E-06
G	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.9499955	0.1816704	3.27E-07
GA	G	0.02	-0.8037807	0.1653882	1.90E-06
GA	G	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
T	TG	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.8037807	0.1653882	1.90E-06
G	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.848477	0.1666376	6.36E-07
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	C	0.02	-0.8037807	0.1653882	1.90E-06
A	T	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.928117	0.1913233	1.98E-06
C	G	0.02	-0.8037807	0.1653882	1.90E-06
C	G	0.02	-0.8037807	0.1653882	1.90E-06
C	G	0.02	-0.8037807	0.1653882	1.90E-06
A	T	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
T	TA	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	AGAGC	0.02	-0.8031866	0.1710463	4.02E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	T	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.967187	0.1806629	1.77E-07
T	G	0.02	-0.8021721	0.1695438	3.42E-06
A	C	0.02	-0.8037807	0.1653882	1.90E-06

G	A	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
A	C	0.02	-0.8037807	0.1653882	1.90E-06
T	C	0.02	-0.8037807	0.1653882	1.90E-06
G	C	0.02	-0.8037807	0.1653882	1.90E-06
A	G	0.02	-0.8037807	0.1653882	1.90E-06
ACAAAAGT	A	0.02	-0.8037807	0.1653882	1.90E-06
C	G	0.02	-0.8037807	0.1653882	1.90E-06
G	A	0.02	-0.8037807	0.1653882	1.90E-06
G	T	0.02	-0.8037807	0.1653882	1.90E-06
T	A	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
C	T	0.02	-0.8037807	0.1653882	1.90E-06
A	AT	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.02	-0.8037807	0.1653882	1.90E-06
C	A	0.41	0.2388706	0.05235064	7.29E-06
C	A	0.07	-0.4934474	0.1041867	3.35E-06
G	T	0.07	-0.4780853	0.1060354	9.25E-06
GC	G	0.01	-1.074999	0.227723	3.60E-06
T	C	0.05	-0.5340591	0.1148477	4.94E-06
T	C	0.06	-0.5621741	0.1116974	8.42E-07
G	T	0.13	-0.3514478	0.07613847	5.76E-06
CA	C	0.13	-0.3572689	0.07762402	6.11E-06
C	A	0.13	-0.3514478	0.07613847	5.76E-06
C	T	0.13	-0.3514478	0.07613847	5.76E-06
T	C	0.13	-0.3514478	0.07613847	5.76E-06
C	T	0.13	-0.3514478	0.07613847	5.76E-06
T	C	0.13	-0.3514478	0.07613847	5.76E-06
G	A	0.13	-0.3512636	0.07626811	6.03E-06
C	T	0.13	-0.3514478	0.07613847	5.76E-06
G	C	0.13	-0.3514478	0.07613847	5.76E-06
G	A	0.13	-0.3514478	0.07613847	5.76E-06
G	T	0.13	-0.3529312	0.07672783	6.19E-06
CG	C	0.13	-0.350666	0.07761593	8.88E-06
G	A	0.09	-0.4350138	0.09121922	2.89E-06
A	C	0.06	-0.4743933	0.1044047	7.93E-06
A	C	0.06	-0.486517	0.1037223	4.12E-06
G	C	0.01	-1.164222	0.2306461	7.85E-07
G	A	0.11	0.3962413	0.08444123	4.08E-06
G	A	0.1	0.4073022	0.08826698	5.80E-06
G	A	0.11	0.3852446	0.085086	8.51E-06
A	C	0.1	0.3987321	0.08630112	5.65E-06
A	T	0.1	0.3987321	0.08630112	5.65E-06
T	C	0.03	-0.7497862	0.1534903	1.69E-06
G	C	0.02	-0.9046875	0.1739656	3.76E-07
C	T	0.04	0.6627432	0.1416091	4.32E-06
A	AAATAAATAAATAAA	0.01	-1.02253	0.2193266	4.68E-06
GA	G	0.02	-0.7751765	0.160908	2.31E-06
G	T	0.03	-0.7417186	0.1609331	5.94E-06

C	A	0.03	-0.7417186	0.1609331	5.94E-06
G	A	0.03	-0.7417186	0.1609331	5.94E-06
A	G	0.03	-0.7417186	0.1609331	5.94E-06
T	C	0.03	-0.7417186	0.1609331	5.94E-06
T	G	0.03	-0.7417186	0.1609331	5.94E-06
T	G	0.03	-0.7417186	0.1609331	5.94E-06
GTC	G	0.08	-0.4360471	0.09706616	9.94E-06
G	A	0.26	0.2721234	0.05972168	7.50E-06
T	G	0.26	0.2741886	0.05965621	6.29E-06
G	A	0.26	-0.257429	0.05575569	5.73E-06
C	T	0.06	-0.5354116	0.1099311	1.81E-06
C	A	0.02	-0.8239795	0.1561603	2.59E-07
A	T	0.01	-1.091489	0.2383486	6.77E-06
T	C	0.04	0.6370946	0.1409743	8.83E-06
T	C	0.04	0.6370946	0.1409743	8.83E-06
A	G	0.04	0.651232	0.1421601	6.73E-06
C	T	0.21	-0.2875342	0.06136314	4.21E-06
A	T	0.02	-0.8886054	0.1758544	7.65E-07
T	C	0.02	-0.9857206	0.1854351	2.13E-07
A	G	0.11	-0.3686417	0.08173346	9.19E-06
G	A	0.46	0.2708991	0.05349376	7.26E-07
A	C	0.06	-0.5139365	0.1122684	6.82E-06
AGAC	A	0.01	-1.237318	0.2341811	2.50E-07
T	G	0.13	0.3500921	0.07633038	6.56E-06
CA	C	0.04	0.612739	0.1329088	5.91E-06
T	C	0.02	-0.6927852	0.1155152	6.43E-09
T	G	0.01	0.9372289	0.1557632	6.30E-09
T	C	0.01	-0.7028694	0.11683	5.73E-09
C	T	0.01	-0.3986083	0.06714218	8.80E-09
A	G	0.02	-0.340964	0.0559742	3.82E-09
G	T	0.02	-0.340964	0.0559742	3.82E-09
C	T	0.02	-0.346193	0.05747833	5.54E-09
C	G	0.02	-0.5377089	0.0844423	8.93E-10
C	G	0.02	-0.5377089	0.0844423	8.93E-10
A	G	0.02	-0.5377089	0.0844423	8.93E-10
C	T	0.02	-0.4918573	0.08295876	9.68E-09
C	T	0.02	-0.4918573	0.08295876	9.68E-09
T	G	0.01	-0.6252981	0.1049324	8.25E-09
G	T	0.01	-0.6252981	0.1049324	8.25E-09
GA	G	0.01	-0.6252981	0.1049324	8.25E-09
T	C	0.01	-0.6252981	0.1049324	8.25E-09
G	A	0.03	-0.3444003	0.05756728	6.78E-09
G	T	0.03	-0.3444003	0.05756728	6.78E-09
G	A	0.03	-0.3444003	0.05756728	6.78E-09
C	T	0.05	-0.4994128	0.08344088	6.68E-09
T	C	0.01	-0.7444167	0.1200966	2.47E-09
C	T	0.02	-0.3920337	0.06320888	2.06E-09
C	T	0.01	-0.4444001	0.06722246	2.07E-10
G	A	0.01	-0.4671709	0.07583456	2.60E-09
A	G	0.01	-0.4671709	0.07583456	2.60E-09

A	G	0.01	-0.4671709	0.07583456	2.60E-09
C	T	0.01	-0.4671709	0.07583456	2.60E-09
G	A	0.01	-0.4671709	0.07583456	2.60E-09
T	C	0.01	-0.4671709	0.07583456	2.60E-09
T	A	0.01	0.7827776	0.126448	2.18E-09
CGT	C	0.01	0.6809125	0.1075407	1.07E-09
C	T	0.01	-0.4255422	0.07061394	5.42E-09
C	G	0.02	-0.6017985	0.08884604	8.93E-11
C	G	0.02	-0.6017985	0.08884604	8.93E-11
A	G	0.02	-0.6017985	0.08884604	8.93E-11
C	T	0.02	-0.5430339	0.08489522	7.58E-10
C	T	0.02	-0.5590274	0.08716273	6.89E-10
C	T	0.02	-0.5590274	0.08716273	6.89E-10
T	C	0.01	-0.6570972	0.1105647	8.95E-09
T	G	0.01	-0.7254597	0.1063873	6.86E-11
G	T	0.01	-0.7254597	0.1063873	6.86E-11
GA	G	0.01	-0.7254597	0.1063873	6.86E-11
T	C	0.01	-0.7254597	0.1063873	6.86E-11
A	G	0.02	-0.6479856	0.09998478	4.73E-10
T	G	0.11	-0.1690063	0.02813602	5.98E-09
T	G	0.01	-0.7787998	0.1272891	3.30E-09
G	T	0.01	-0.7787998	0.1272891	3.30E-09
GA	G	0.01	-0.7787998	0.1272891	3.30E-09
T	C	0.01	-0.7787998	0.1272891	3.30E-09
C	CT	0.01	1.173882	0.2559126	6.54E-06
A	C	0.02	-0.9352527	0.1990446	3.97E-06
A	G	0.02	-0.9352527	0.1990446	3.97E-06
G	A	0.02	-0.9352527	0.1990446	3.97E-06
T	C	0.02	-0.9352527	0.1990446	3.97E-06
C	T	0.02	-0.9352527	0.1990446	3.97E-06
G	T	0.01	-1.283047	0.243421	2.66E-07
C	CTT	0.05	-0.4735597	0.1022361	5.35E-06
C	T	0.16	0.3465895	0.07086554	1.64E-06
GTACATA	G	0.02	-0.9941309	0.2161059	6.17E-06
G	GA	0.08	0.4681144	0.09655992	2.00E-06
TACATCA	T	0.5	-0.2436902	0.05398655	9.03E-06
G	A	0.18	-0.3053142	0.06707819	7.65E-06
ATTG	A	0.18	-0.3080334	0.06536112	3.72E-06
C	T	0.16	-0.3190709	0.07051779	8.62E-06
A	G	0.2	-0.29616	0.06350305	4.64E-06
G	T	0.2	-0.3100478	0.06468499	2.58E-06
G	A	0.2	-0.2959729	0.06377134	5.14E-06
A	G	0.2	-0.2959729	0.06377134	5.14E-06
C	T	0.21	-0.2846626	0.0622821	7.04E-06
T	A	0.21	-0.2948142	0.06248453	3.63E-06
C	T	0.2	-0.3009317	0.0637754	3.62E-06
A	G	0.22	-0.2802564	0.06224997	9.51E-06
T	A	0.21	-0.284844	0.06284032	8.31E-06
A	G	0.19	-0.3267607	0.06457217	7.38E-07
C	G	0.19	-0.3267607	0.06457217	7.38E-07

G	A	0.22	-0.2826762	0.06189767	7.16E-06
A	T	0.19	-0.3267607	0.06457217	7.38E-07
G	A	0.19	-0.298565	0.06608384	8.87E-06
C	T	0.02	1.035714	0.2239313	5.52E-06
A	T	0.02	1.035714	0.2239313	5.52E-06
T	C	0.17	0.344117	0.07524497	6.95E-06
T	C	0.17	0.3460467	0.07431977	4.80E-06
T	C	0.17	0.353857	0.07502632	3.66E-06
C	T	0.08	0.4929545	0.1036132	3.03E-06
C	T	0.07	0.5477801	0.1059341	4.33E-07
C	T	0.08	0.5125064	0.10485	1.66E-06
C	G	0.08	0.4809697	0.1000095	2.40E-06
G	T	0.08	0.4843583	0.1026736	3.64E-06
C	CT	0.08	0.4907262	0.1052378	4.66E-06
CAT	C	0.08	0.4985482	0.1039074	2.52E-06
G	T	0.08	0.4613884	0.102023	8.70E-06
G	A	0.03	-0.8323157	0.1695009	1.50E-06
T	G	0.03	-0.8177213	0.1672527	1.66E-06
C	T	0.15	-0.3487313	0.07525499	5.31E-06
C	T	0.02	-1.082506	0.1968284	8.46E-08
A	G	0.2	0.2648238	0.05867419	9.05E-06
T	C	0.01	1.086464	0.2403664	8.79E-06
T	C	0.06	0.5176081	0.1127345	6.42E-06
T	C	0.02	1.014358	0.2252934	9.50E-06
C	T	0.12	-0.4067044	0.08288774	1.53E-06
C	T	0.02	-1.022121	0.2114281	2.13E-06
T	G	0.08	-0.4541444	0.1000462	8.08E-06
C	T	0.03	-0.7503205	0.1647817	7.59E-06
C	T	0.01	-1.129763	0.2426563	4.81E-06
A	G	0.02	-0.9525825	0.2111464	9.13E-06
A	G	0.01	-1.136723	0.2343436	1.98E-06
C	CA	0.01	-1.149073	0.2206101	3.61E-07
G	C	0.36	0.2615827	0.05646263	5.33E-06
G	A	0.04	-0.6849261	0.1294582	2.41E-07
G	A	0.35	0.2527261	0.0556622	8.04E-06
A	G	0.3	0.268887	0.05775543	4.82E-06
G	A	0.3	0.2641958	0.05799358	7.52E-06
T	C	0.3	0.2705886	0.05745732	3.78E-06
A	G	0.3	0.2673482	0.05787113	5.66E-06
C	T	0.06	0.5233889	0.1103916	3.27E-06
T	G	0.09	0.4415633	0.09761674	8.66E-06
T	C	0.08	0.4482949	0.09854047	7.73E-06
T	C	0.08	0.4492605	0.09918723	8.44E-06
G	A	0.08	0.4492605	0.09918723	8.44E-06
G	A	0.21	-0.306295	0.0667488	6.49E-06
T	C	0.19	0.3079113	0.06498049	3.31E-06
T	A	0.02	0.9669091	0.2048682	3.61E-06
C	T	0.18	0.3148797	0.06867973	6.61E-06
C	T	0.18	0.3108381	0.06879088	8.85E-06
G	A	0.19	0.3374543	0.06765514	1.04E-06

G	A	0.18	0.3244546	0.06819027	3.03E-06
G	A	0.19	0.2992476	0.06543043	6.95E-06
A	C	0.2	0.3297761	0.06454392	5.83E-07
C	T	0.19	0.3157025	0.06785843	4.89E-06
A	C	0.19	0.3157532	0.06683926	3.54E-06
G	A	0.19	0.3380736	0.06626791	6.05E-07
G	A	0.18	0.3375385	0.06805625	1.19E-06
T	C	0.19	0.3051304	0.06789309	9.84E-06
A	G	0.18	0.3103276	0.06871832	8.95E-06
A	G	0.19	0.3210059	0.06801414	3.61E-06
C	T	0.25	0.2790926	0.06006637	5.02E-06
C	T	0.25	0.2825711	0.06045611	4.43E-06
A	G	0.14	-0.3322413	0.07339426	8.54E-06
T	G	0.25	-0.2805783	0.06181699	8.10E-06
A	G	0.25	-0.2793823	0.0617765	8.70E-06
G	C	0.25	-0.2805783	0.06181699	8.10E-06
T	A	0.21	-0.2882835	0.06325315	7.45E-06
G	T	0.12	-0.3770351	0.08268899	7.39E-06
C	T	0.27	-0.3020212	0.06023882	9.21E-07
C	A	0.27	-0.2798207	0.06022591	5.02E-06
T	TCACACA	0.03	-0.6741485	0.1498586	9.66E-06
C	T	0.01	-1.070396	0.2295752	4.67E-06
G	A	0.01	-1.192556	0.2378406	9.20E-07
T	G	0.01	-1.326292	0.2578105	4.93E-07
G	A	0.01	-1.192556	0.2378406	9.20E-07
C	T	0.01	-1.192556	0.2378406	9.20E-07
C	A	0.01	-1.192556	0.2378406	9.20E-07
A	ATG	0.22	0.3246888	0.07189617	8.95E-06
A	G	0.1	-0.402263	0.08813637	7.24E-06
G	A	0.36	0.27058	0.05711877	3.33E-06
G	T	0.36	0.2708577	0.05716325	3.31E-06
T	C	0.36	0.2782027	0.05719741	1.86E-06
G	A	0.36	0.2731351	0.05738888	3.01E-06
G	A	0.01	1.171136	0.2570582	7.51E-06
A	T	0.02	-0.8398325	0.1806034	4.94E-06
C	CTG	0.15	-0.3670174	0.08107537	8.53E-06
A	AAAAT	0.07	0.5013863	0.1077013	4.82E-06
A	G	0.32	0.2556252	0.05637046	8.24E-06
C	G	0.31	0.2684849	0.05792598	5.28E-06
A	G	0.41	0.2530637	0.05448712	5.06E-06
C	G	0.4	0.2498134	0.05405177	5.61E-06
T	C	0.36	0.2437291	0.05376698	8.30E-06
G	A	0.25	-0.2963985	0.06405491	5.47E-06
C	A	0.25	-0.2922816	0.06331008	5.73E-06
G	A	0.25	-0.2968487	0.06356513	4.52E-06
C	T	0.12	-0.2599897	0.04245577	3.15E-09
T	G	0.39	-0.1294584	0.02166926	7.59E-09
T	G	0.01	0.9739228	0.1636565	8.94E-09
A	G	0.01	0.578073	0.09060705	1.01E-09
C	T	0.01	0.9631108	0.1350665	9.68E-12

T	G	0.01	0.9631108	0.1350665	9.68E-12
T	TC	0.01	0.7713271	0.1171931	2.43E-10
A	G	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
A	T	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
C	T	0.01	0.7713271	0.1171931	2.43E-10
C	T	0.01	0.7713271	0.1171931	2.43E-10
T	C	0.01	0.7713271	0.1171931	2.43E-10
C	G	0.01	0.7713271	0.1171931	2.43E-10
G	C	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
T	C	0.01	0.7713271	0.1171931	2.43E-10
AC	A	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
A	G	0.01	0.7713271	0.1171931	2.43E-10
C	T	0.01	0.7713271	0.1171931	2.43E-10
C	T	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7470344	0.1218986	3.08E-09
G	A	0.01	0.7713271	0.1171931	2.43E-10
G	T	0.01	0.7713271	0.1171931	2.43E-10
G	A	0.01	0.7713271	0.1171931	2.43E-10
A	G	0.01	0.7713271	0.1171931	2.43E-10
T	C	0.02	0.704814	0.1148569	2.95E-09
A	G	0.02	0.704814	0.1148569	2.95E-09
T	C	0.02	0.704814	0.1148569	2.95E-09
C	G	0.02	0.704814	0.1148569	2.95E-09
C	T	0.02	0.704814	0.1148569	2.95E-09
AG	A	0.02	0.704814	0.1148569	2.95E-09
T	A	0.02	0.704814	0.1148569	2.95E-09
A	G	0.02	0.704814	0.1148569	2.95E-09
A	G	0.02	0.7355736	0.1086549	8.21E-11
A	AT	0.02	0.704814	0.1148569	2.95E-09
T	A	0.02	0.7003774	0.1164507	5.71E-09
C	T	0.02	-0.5030831	0.08470469	9.14E-09
C	T	0.02	-0.5030831	0.08470469	9.14E-09
A	G	0.42	0.1370472	0.02283417	6.28E-09
T	G	0.39	-0.1370016	0.02251277	4.00E-09
G	A	0.19	0.1996297	0.03335315	6.67E-09
T	C	0.01	-0.6331193	0.1049436	6.01E-09
C	T	0.01	-0.6305212	0.09972131	1.09E-09
A	C	0.04	-0.3715915	0.06147194	5.96E-09
TG	T	0.01	0.9122337	0.1457262	1.49E-09
T	G	0.4	-0.1293844	0.02117624	4.04E-09
T	C	0.18	-0.319683	0.06697152	2.83E-06
C	T	0.18	-0.3048365	0.06726034	8.35E-06
C	T	0.18	-0.3051231	0.06697302	7.52E-06
C	A	0.19	-0.3018372	0.06442268	4.22E-06

C	T	0.19	-0.2931805	0.06499613	9.17E-06
G	T	0.15	-0.3469599	0.07100975	1.68E-06
A	G	0.14	-0.3543329	0.07266073	1.76E-06
G	A	0.24	0.2617216	0.05697682	6.37E-06
T	C	0.03	-0.6592345	0.143766	6.60E-06
T	A	0.04	-0.5937327	0.1241636	2.72E-06
GA	G	0.11	-0.3848433	0.0809937	3.13E-06
T	TC	0.14	-0.3468389	0.07317087	3.29E-06
T	CTCTCTCTCTCTCTC	0.03	-0.7247664	0.1581042	6.64E-06
C	T	0.19	-0.2763281	0.05900692	4.27E-06
T	TA	0.21	-0.2976341	0.06464191	6.07E-06
T	G	0.01	-1.164175	0.2561062	7.87E-06
GACACAC	G	0.07	-0.4639709	0.1030472	9.51E-06
G	A	0.01	-1.182429	0.2504589	3.59E-06
A	G	0.37	0.2489923	0.05369071	5.23E-06
A	C	0.37	0.2503354	0.05378414	4.85E-06
G	A	0.37	0.2529699	0.05378301	3.89E-06
T	C	0.37	0.2598966	0.05397697	2.34E-06
G	GTAGC	0.35	0.2672397	0.05478192	1.74E-06
G	GAT	0.37	0.2469871	0.05396817	6.86E-06
C	G	0.37	0.2516668	0.05449077	5.70E-06
G	GA	0.03	-0.6546248	0.1445027	8.42E-06
G	A	0.24	-0.2658328	0.05716057	4.93E-06
C	G	0.23	-0.2770282	0.06011724	5.97E-06
A	T	0.23	-0.2832663	0.0598002	3.34E-06
T	TTTTG	0.18	-0.3198286	0.06950786	6.15E-06
A	C	0.22	-0.2864926	0.06015823	2.98E-06
GCA	G	0.24	-0.2910233	0.05863211	1.17E-06
T	C	0.24	-0.2887233	0.05863097	1.41E-06
G	A	0.13	0.3562494	0.07887672	8.94E-06
A	G	0.02	-0.9063415	0.1992544	7.76E-06
C	T	0.02	-0.9063415	0.1992544	7.76E-06
G	A	0.02	-0.9414852	0.2017693	4.60E-06
G	A	0.02	-0.9414852	0.2017693	4.60E-06
C	G	0.02	-0.9414852	0.2017693	4.60E-06
C	A	0.01	-1.181781	0.2420177	1.71E-06
T	C	0.01	-1.181781	0.2420177	1.71E-06
G	A	0.01	-1.181781	0.2420177	1.71E-06
C	T	0.01	-1.181781	0.2420177	1.71E-06
T	G	0.03	-0.6833677	0.1510348	8.63E-06
TTA	T	0.14	-0.3516656	0.07566856	5.00E-06
A	AC	0.14	-0.3527049	0.07708001	6.89E-06
C	T	0.13	-0.3474894	0.07717297	9.50E-06
G	A	0.07	-0.4915013	0.1027699	2.71E-06
G	GAATAAATA	0.01	-1.190935	0.2472991	2.33E-06
AAAAAC	A	0.14	-0.3379458	0.07404399	7.25E-06
C	T	0.01	-0.9899079	0.2114457	4.29E-06
TAA	T	0.16	-0.3133595	0.06977175	9.99E-06
G	A	0.07	-0.4521632	0.09559466	3.45E-06
C	T	0.08	-0.4772626	0.09969872	2.66E-06

A	G	0.08	-0.4656172	0.09953015	4.36E-06
A	G	0.08	-0.4656172	0.09953015	4.36E-06
C	CAAATT	0.08	-0.4656172	0.09953015	4.36E-06
G	C	0.08	-0.4656172	0.09953015	4.36E-06
C	T	0.12	-0.388264	0.08057525	2.30E-06
A	C	0.12	-0.388264	0.08057525	2.30E-06
T	C	0.08	-0.4656172	0.09953015	4.36E-06
T	C	0.12	-0.382194	0.08036148	3.06E-06
A	G	0.12	-0.382194	0.08036148	3.06E-06
G	A	0.13	-0.3720282	0.07959612	4.44E-06
A	AG	0.13	-0.348823	0.07677933	7.95E-06
G	A	0.13	-0.3719519	0.07883761	3.64E-06
T	C	0.13	-0.3637951	0.07739402	3.94E-06
C	A	0.06	-0.5038598	0.1090923	5.69E-06
G	A	0.06	-0.5357545	0.1104946	2.00E-06
G	A	0.06	-0.4921075	0.1093558	9.61E-06
G	C	0.07	-0.5144001	0.1063212	2.10E-06
A	AT	0.02	-0.9012397	0.1817587	1.20E-06
C	G	0.12	-0.3733965	0.07707423	2.04E-06
G	T	0.08	-0.4417988	0.09768444	8.70E-06
T	C	0.07	-0.4587189	0.1017773	9.32E-06
C	T	0.13	-0.3465812	0.07420914	4.52E-06
T	C	0.13	-0.3381156	0.07345833	6.11E-06
G	T	0.13	-0.3347949	0.0741965	9.11E-06
T	C	0.13	-0.3691689	0.0760825	1.97E-06
C	CTGTT	0.13	-0.3570185	0.0733798	1.85E-06
C	T	0.13	-0.3691689	0.0760825	1.97E-06
G	C	0.12	-0.3473112	0.0749769	5.36E-06
A	G	0.09	-0.4229259	0.09166471	5.82E-06
G	A	0.08	-0.4306794	0.09361578	6.17E-06
A	G	0.12	-0.3657504	0.08056867	8.08E-06
A	G	0.09	-0.420777	0.08993102	4.34E-06
C	A	0.15	-0.3966538	0.07281922	1.11E-07
G	A	0.1	-0.4338243	0.08670406	9.69E-07
G	C	0.1	-0.4314823	0.08773715	1.45E-06
T	G	0.08	-0.4418333	0.09498467	4.91E-06
T	A	0.08	-0.4517767	0.09513753	3.17E-06
T	C	0.08	-0.4482609	0.09528446	3.87E-06
TTTATCTCA	T	0.08	-0.4765723	0.09815469	1.94E-06
C	CG	0.07	-0.4837552	0.1037767	4.70E-06
G	A	0.34	-0.2699265	0.05477074	1.38E-06
T	G	0.33	-0.2579269	0.05532329	4.68E-06
G	T	0.33	-0.2502266	0.05550437	9.27E-06
CT	C	0.37	0.2517899	0.05412405	4.90E-06
G	C	0.36	0.2529854	0.05436152	4.86E-06
C	T	0.01	-1.074923	0.2318719	5.27E-06
G	T	0.01	-1.074923	0.2318719	5.27E-06
A	T	0.01	-1.074923	0.2318719	5.27E-06
C	A	0.01	-1.074923	0.2318719	5.27E-06
T	G	0.01	-1.074923	0.2318719	5.27E-06

C	T	0.32	0.2403904	0.05141722	4.42E-06
TGTGG	T	0.02	-0.8507274	0.1889965	9.56E-06
AT	A	0.06	0.4567996	0.09814877	4.86E-06
TTG	T	0.02	-0.8316027	0.1785661	4.79E-06
T	C	0.01	-1.1434	0.2508668	7.46E-06
CT	C	0.01	-1.168629	0.2379512	1.50E-06
A	G	0.48	-0.2337248	0.05187601	9.39E-06
T	TTGTGTGTGTG	0.03	-0.7285727	0.1468695	1.19E-06
CAA	C	0.07	-0.4524465	0.1002276	9.04E-06
CA	C	0.04	0.6086688	0.1318416	5.74E-06
G	GAC	0.04	0.6063922	0.1341329	8.78E-06
A	G	0.41	0.2440292	0.05242063	4.83E-06
C	G	0.4	0.2358058	0.05206926	8.48E-06
C	T	0.05	0.3446727	0.05687711	4.47E-09
CGT	C	0.01	0.6029198	0.09852219	3.44E-09
C	T	0.01	0.2056612	0.03196129	5.65E-10
TTGTGTGTG	T	0.2	-0.1424833	0.02397209	8.35E-09
T	C	0.01	-0.0783774	0.01217619	5.55E-10
G	A	0.04	-0.3746663	0.06269281	7.52E-09
A	C	0.01	-0.6224889	0.1017662	3.53E-09
C	G	0.02	-0.5549932	0.08358349	1.93E-10
C	G	0.02	-0.5549932	0.08358349	1.93E-10
A	G	0.02	-0.5549932	0.08358349	1.93E-10
C	T	0.02	-0.5050173	0.07988082	1.15E-09
C	T	0.02	-0.5259652	0.0820673	7.09E-10
C	T	0.02	-0.5259652	0.0820673	7.09E-10
T	C	0.01	-0.6359618	0.1047562	4.53E-09
T	G	0.01	-0.7033281	0.1008607	2.80E-11
G	T	0.01	-0.7033281	0.1008607	2.80E-11
GA	G	0.01	-0.7033281	0.1008607	2.80E-11
T	C	0.01	-0.7033281	0.1008607	2.80E-11
A	G	0.02	-0.5718324	0.09581972	7.86E-09
A	G	0.02	-0.6217538	0.09484881	3.12E-10
C	T	0.12	-0.2125489	0.03594337	9.81E-09
C	T	0.09	-0.1487173	0.02503454	8.50E-09
G	A	0.12	-0.1252628	0.02111463	8.87E-09
T	C	0.01	-0.7014685	0.1168796	7.07E-09
A	G	0.01	-0.6652808	0.110167	5.36E-09
TA	T	0.01	-0.4867576	0.07228164	1.01E-10
G	A	0.01	-0.491032	0.08236841	7.70E-09
C	T	0.01	-0.491032	0.08236841	7.70E-09
C	G	0.17	-0.1245013	0.02102759	9.55E-09
G	T	0.02	-0.3108337	0.05220455	7.95E-09
C	T	0.07	0.3718711	0.06223797	8.11E-09
C	T	0.03	0.566948	0.09466129	7.00E-09
A	G	0.41	0.1949206	0.03102104	1.34E-09
C	T	0.38	0.1941437	0.03075906	1.15E-09
G	A	0.37	0.2001228	0.03084046	4.25E-10
G	A	0.4	0.1885176	0.03014897	1.59E-09
T	TTTAA	0.42	-0.1910482	0.03089718	2.47E-09

C	T	0.07	0.3807575	0.06031473	1.16E-09
C	T	0.03	0.5028223	0.08276419	4.26E-09
C	T	0.03	0.5169688	0.08568866	5.35E-09
T	C	0.19	0.2278918	0.03846604	9.34E-09
C	T	0.03	0.5001835	0.0833547	6.36E-09
A	G	0.01	0.7755085	0.1286848	5.40E-09
GAT	G	0.02	-0.7809117	0.1242966	1.37E-09
T	C	0.2	0.2316262	0.03901072	8.81E-09
C	T	0.02	-0.8696334	0.1455468	7.47E-09
G	A	0.02	-0.844009	0.135881	2.08E-09
T	C	0.18	-0.308436	0.06736576	6.80E-06
G	T	0.15	-0.3465955	0.07129241	1.88E-06
A	G	0.14	-0.3535955	0.07288908	1.98E-06
C	T	0.32	0.2523716	0.05496407	6.42E-06
G	GACAC	0.03	-0.7214195	0.1598274	9.05E-06
T	A	0.04	-0.5771052	0.1243016	5.11E-06
C	T	0.03	0.6810374	0.1435721	3.24E-06
TG	T	0.12	-0.3537497	0.07857958	9.54E-06
C	A	0.12	-0.3849905	0.07897901	1.77E-06
T	TA	0.21	-0.2932647	0.06496168	9.03E-06
GACACAC	G	0.07	-0.4715173	0.1026073	6.31E-06
G	A	0.01	-1.196647	0.2525174	3.31E-06
A	G	0.37	0.2534449	0.05383547	3.81E-06
A	C	0.37	0.2540738	0.05393889	3.77E-06
G	A	0.37	0.2567902	0.05393567	2.99E-06
T	C	0.37	0.260929	0.05412338	2.27E-06
G	GTAGC	0.35	0.2754699	0.05484486	8.85E-07
G	GAT	0.37	0.2477488	0.05411235	6.81E-06
C	G	0.37	0.2554229	0.05462511	4.40E-06
T	C	0.01	-1.090733	0.2362056	5.72E-06
A	C	0.01	-1.090733	0.2362056	5.72E-06
G	A	0.24	-0.2768726	0.05712066	2.02E-06
GCA	G	0.24	-0.2764229	0.0590956	4.37E-06
T	C	0.24	-0.2742714	0.05909219	5.14E-06
C	T	0.13	0.3648533	0.07948045	6.45E-06
G	A	0.13	0.3662467	0.07928384	5.67E-06
C	A	0.01	-1.142391	0.2437837	4.21E-06
T	C	0.01	-1.142391	0.2437837	4.21E-06
G	A	0.01	-1.142391	0.2437837	4.21E-06
C	T	0.01	-1.142391	0.2437837	4.21E-06
TTA	T	0.14	-0.3584609	0.07600863	3.67E-06
A	AC	0.14	-0.3759255	0.07735856	1.90E-06
C	T	0.13	-0.3493285	0.07737673	9.02E-06
C	T	0.13	-0.3602908	0.07747432	4.94E-06
T	A	0.13	-0.3509596	0.07738987	8.25E-06
G	A	0.18	0.3038527	0.06697621	8.18E-06
G	GAATAAATA	0.01	-1.134539	0.2455393	5.64E-06
A	G	0.11	0.3933256	0.08677748	8.33E-06
AAAAAC	A	0.14	-0.3438106	0.07396613	4.99E-06
T	TTTC	0.01	-1.053298	0.2288384	6.11E-06

C	T	0.01	-0.9685283	0.2102845	6.03E-06
C	T	0.02	-0.9404187	0.2075194	8.37E-06
C	T	0.08	-0.457097	0.1003481	7.55E-06
C	T	0.12	-0.3854356	0.08093413	2.98E-06
A	C	0.12	-0.3854356	0.08093413	2.98E-06
T	C	0.12	-0.3786191	0.08071094	4.11E-06
A	G	0.12	-0.3786191	0.08071094	4.11E-06
G	A	0.13	-0.3718911	0.07990447	4.86E-06
A	AG	0.13	-0.3513009	0.07703211	7.37E-06
G	A	0.13	-0.3627177	0.0792442	6.84E-06
T	C	0.13	-0.35134	0.07780427	8.98E-06
G	A	0.06	-0.5090262	0.1110859	6.69E-06
G	C	0.07	-0.489433	0.1070471	7.00E-06
A	AT	0.02	-0.8612318	0.1812636	3.13E-06
C	G	0.12	-0.3538107	0.07744768	7.12E-06
T	C	0.13	-0.3522898	0.07655837	6.14E-06
C	CTGTT	0.13	-0.3488893	0.07373678	3.42E-06
C	T	0.13	-0.3522898	0.07655837	6.14E-06
G	C	0.12	-0.3392252	0.07534032	9.51E-06
A	G	0.09	-0.415826	0.09034527	6.11E-06
C	A	0.15	-0.3825158	0.0731926	3.32E-07
G	A	0.1	-0.4282281	0.08709693	1.46E-06
G	C	0.1	-0.4254251	0.08817485	2.23E-06
T	G	0.08	-0.4438392	0.09544364	4.94E-06
T	A	0.08	-0.4327866	0.09579822	8.90E-06
TTTATCTCA	T	0.08	-0.4644543	0.09870199	3.85E-06
C	CG	0.07	-0.473714	0.1044778	8.28E-06
G	A	0.34	-0.2777609	0.05495972	7.63E-07
T	G	0.33	-0.2633038	0.05556017	3.31E-06
G	T	0.33	-0.2565302	0.0557385	6.12E-06
CT	C	0.37	0.2625786	0.05421282	2.05E-06
C	A	0.02	0.9042051	0.1876389	2.30E-06
A	G	0.29	-0.2454074	0.054288	8.79E-06
G	C	0.36	0.2625352	0.05457878	2.39E-06
A	T	0.24	0.2828566	0.06135908	5.92E-06
T	C	0.35	0.246804	0.05463086	8.90E-06
A	G	0.37	0.2480024	0.05344085	5.16E-06
C	T	0.01	-1.070497	0.2322796	5.95E-06
G	C	0.01	-1.087118	0.2368369	6.46E-06
G	T	0.01	-1.070497	0.2322796	5.95E-06
A	T	0.01	-1.070497	0.2322796	5.95E-06
C	A	0.01	-1.070497	0.2322796	5.95E-06
T	G	0.01	-1.070497	0.2322796	5.95E-06
A	G	0.01	1.04761	0.2224403	3.78E-06
G	A	0.09	-0.4090294	0.09093795	9.70E-06
G	GAAC	0.01	-1.114678	0.2397743	4.97E-06
AT	A	0.06	0.468569	0.09792195	2.68E-06
T	A	0.01	1.032995	0.2219461	4.85E-06
CT	C	0.01	-1.221739	0.2375026	4.94E-07
T	TTGTGTGTGTG	0.03	-0.6910598	0.1468574	3.85E-06

CAA	C	0.07	-0.4530331	0.1004851	9.27E-06
CA	C	0.04	0.6230619	0.1321835	3.71E-06
C	G	0.31	0.2634793	0.05605325	3.94E-06
A	G	0.41	0.2547689	0.05259611	2.05E-06
C	T	0.39	0.2381981	0.05250836	8.20E-06
A	G	0.38	0.2493845	0.0523115	2.91E-06
T	G	0.38	0.2380927	0.0524211	8.00E-06
C	G	0.4	0.249696	0.05220259	2.70E-06
C	T	0.05	0.3336548	0.05585112	7.10E-09
CGT	C	0.01	0.62383	0.09994276	1.76E-09
C	G	0.03	0.0479894	0.00795728	5.27E-09
C	A	0.02	0.05355515	0.00886003	4.89E-09
C	T	0.02	0.05355515	0.00886003	4.89E-09
C	T	0.01	0.1983888	0.02966521	1.33E-10
C	T	0.01	0.9692496	0.1293337	1.05E-12
T	G	0.01	0.9692496	0.1293337	1.05E-12
T	TC	0.01	0.8043943	0.1119939	7.08E-12
A	G	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
A	T	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
C	T	0.01	0.8043943	0.1119939	7.08E-12
C	T	0.01	0.8043943	0.1119939	7.08E-12
T	C	0.01	0.8043943	0.1119939	7.08E-12
C	G	0.01	0.8043943	0.1119939	7.08E-12
G	C	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
T	C	0.01	0.8043943	0.1119939	7.08E-12
AC	A	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
A	G	0.01	0.8043943	0.1119939	7.08E-12
C	T	0.01	0.8043943	0.1119939	7.08E-12
C	T	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.8043943	0.1119939	7.08E-12
G	A	0.01	0.7723169	0.1167156	1.99E-10
G	A	0.01	0.8043943	0.1119939	7.08E-12
G	T	0.01	0.8043943	0.1119939	7.08E-12
A	T	0.01	0.7861107	0.1266588	2.01E-09
G	A	0.01	0.8043943	0.1119939	7.08E-12
A	G	0.01	0.8043943	0.1119939	7.08E-12
T	C	0.02	0.7438038	0.1097899	7.97E-11
A	G	0.02	0.7438038	0.1097899	7.97E-11
T	C	0.02	0.7438038	0.1097899	7.97E-11
C	G	0.02	0.7438038	0.1097899	7.97E-11
C	T	0.02	0.7438038	0.1097899	7.97E-11
C	T	0.01	0.7548191	0.1192317	1.01E-09
AG	A	0.02	0.7438038	0.1097899	7.97E-11
T	A	0.02	0.7438038	0.1097899	7.97E-11
A	G	0.02	0.7438038	0.1097899	7.97E-11

T	TG	0.01	0.7263908	0.1195643	4.11E-09
A	G	0.02	0.7767877	0.1036952	1.07E-12
A	AT	0.02	0.7438038	0.1097899	7.97E-11
A	C	0.01	-0.6185366	0.1007323	3.11E-09
C	G	0.02	-0.5473934	0.08261678	2.09E-10
C	G	0.02	-0.5473934	0.08261678	2.09E-10
A	G	0.02	-0.5473934	0.08261678	2.09E-10
C	T	0.02	-0.4990413	0.07895706	1.16E-09
C	T	0.02	-0.520813	0.08112397	6.66E-10
C	T	0.02	-0.520813	0.08112397	6.66E-10
T	C	0.01	-0.6197784	0.1037565	7.63E-09
T	G	0.01	-0.6890341	0.09990351	4.37E-11
G	T	0.01	-0.6890341	0.09990351	4.37E-11
GA	G	0.01	-0.6890341	0.09990351	4.37E-11
T	C	0.01	-0.6890341	0.09990351	4.37E-11
A	G	0.02	-0.6098927	0.09393192	4.43E-10
G	C	0.15	0.1446254	0.02426031	7.80E-09
C	T	0.09	-0.1559844	0.02593845	5.74E-09
T	C	0.01	-0.6948835	0.1140512	4.35E-09
A	G	0.01	-0.6662692	0.1095207	4.21E-09
A	G	0.02	-0.5858665	0.09739154	5.75E-09
C	G	0.17	-0.1233786	0.02064666	7.12E-09
G	T	0.02	-0.3111294	0.05260123	9.81E-09
GTC	G	0.09	-0.3980433	0.0672732	9.87E-09
G	A	0.02	-0.8422114	0.1402527	6.12E-09
GGTGTGTGTGTGT	G	0.01	-1.334519	0.1999949	1.48E-10
G	C	0.04	-0.5804666	0.09237966	1.66E-09
C	G	0.04	-0.589284	0.09370879	1.62E-09
C	T	0.04	-0.5886599	0.09321055	1.40E-09
C	CA	0.15	-0.1784914	0.03756022	3.11E-06
C	T	0.01	0.5278831	0.115211	6.69E-06
G	A	0.02	0.404193	0.08883054	7.70E-06
CCA	C	0.13	0.1840647	0.03995556	5.99E-06
A	G	0.1	0.1877726	0.04140281	8.22E-06
TC	T	0.1	0.1877726	0.04140281	8.22E-06
C	T	0.1	0.1877726	0.04140281	8.22E-06
T	C	0.1	0.1877726	0.04140281	8.22E-06
C	CTTCCTATT	0.1	0.1877726	0.04140281	8.22E-06
T	A	0.1	0.1877726	0.04140281	8.22E-06
CCCTA	C	0.1	0.1877726	0.04140281	8.22E-06
C	T	0.41	0.1194424	0.02605811	6.64E-06
G	GGAGA	0.02	0.4008156	0.08688118	5.82E-06
A	G	0.03	0.3217376	0.06974391	5.83E-06
G	A	0.45	0.1187117	0.02606012	7.53E-06
A	G	0.37	0.1234642	0.02656015	4.97E-06
G	T	0.37	0.1217321	0.02670188	7.41E-06
G	A	0.02	0.4741985	0.09743253	1.84E-06
C	T	0.09	-0.2021996	0.04412895	6.69E-06
G	A	0.09	-0.2021728	0.04368576	5.45E-06
C	T	0.09	-0.1984466	0.04385266	8.59E-06

G	A	0.08	-0.2099694	0.046727	9.88E-06
A	T	0.02	0.4427091	0.09536565	5.11E-06
G	T	0.2	-0.1540831	0.03348909	6.15E-06
C	T	0.18	-0.1613904	0.03539427	7.38E-06
A	AT	0.03	0.343392	0.07296322	3.83E-06
A	G	0.39	-0.1193236	0.02613578	7.20E-06
A	G	0.02	0.4530678	0.09589911	3.53E-06
T	A	0.33	-0.1253091	0.02728512	6.38E-06
G	T	0.11	0.1883857	0.04121789	7.04E-06
AGTGT	A	0.01	0.558996	0.1241299	9.46E-06
C	G	0.05	0.2558273	0.05634537	8.04E-06
T	C	0.04	-0.3073688	0.06440417	2.84E-06
A	C	0.01	0.6128152	0.1277491	2.53E-06
C	CA	0.17	-0.1626485	0.03388432	2.50E-06
CGTTAGT	C	0.39	-0.1225103	0.02491417	1.45E-06
G	A	0.27	0.1362057	0.02874631	3.32E-06
G	C	0.14	0.1710515	0.03769083	8.12E-06
G	C	0.29	0.1323459	0.02844767	4.89E-06
GA	G	0.35	-0.1209955	0.02649001	7.13E-06
C	T	0.04	0.3101429	0.06748405	6.29E-06
A	G	0.46	-0.1243837	0.02676387	5.00E-06
G	A	0.05	0.272869	0.05835575	4.40E-06
T	TACACACACACAC	0.02	0.4621701	0.1019823	8.35E-06
A	AT	0.39	0.1142948	0.02531266	8.98E-06
A	G	0.08	0.2234128	0.0466622	2.64E-06
T	A	0.18	-0.1505814	0.03300572	7.30E-06
CTT	C	0.07	0.2376078	0.05253105	8.67E-06
G	A	0.09	0.2137887	0.04406403	1.97E-06
T	C	0.41	0.1173917	0.02602378	9.15E-06
A	C	0.04	0.3104552	0.06625272	4.20E-06
C	T	0.09	0.2019157	0.04278147	3.61E-06
G	T	0.09	0.2005497	0.04325336	5.24E-06
G	A	0.09	0.2017613	0.0432544	4.63E-06
G	A	0.02	0.4602105	0.09737814	3.50E-06
C	T	0.14	-0.3665341	0.07753582	3.49E-06
T	C	0.09	-0.4112988	0.08553402	2.41E-06
A	T	0.03	0.6701933	0.14222	3.73E-06
A	G	0.03	0.6520807	0.1419754	6.38E-06
A	T	0.03	0.6414723	0.142326	9.32E-06
T	G	0.15	-0.3266607	0.07204282	8.27E-06
G	A	0.02	0.9491417	0.211077	9.76E-06
T	TA	0.21	-0.2965708	0.06515375	7.66E-06
C	CT	0.3	-0.2584339	0.05630213	6.46E-06
A	G	0.3	-0.2521491	0.05316715	3.26E-06
GCA	G	0.03	-0.7296843	0.1422717	5.32E-07
G	A	0.02	-0.9690962	0.2131049	7.80E-06
GTTTC	G	0.02	-0.8366075	0.1856521	9.35E-06
G	A	0.02	-0.883888	0.1934463	7.09E-06
C	CT	0.02	-1.068168	0.2123587	8.55E-07
C	T	0.01	1.044796	0.227902	6.63E-06

T	C	0.33	0.2623509	0.05312627	1.32E-06
TTTG	T	0.26	-0.2671108	0.05836903	6.87E-06
C	T	0.01	1.248515	0.2644609	3.59E-06
T	C	0.01	1.248515	0.2644609	3.59E-06
G	A	0.17	-0.3249245	0.06958434	4.53E-06
G	A	0.26	-0.281342	0.05730988	1.51E-06
G	A	0.26	-0.2900075	0.05767131	8.60E-07
G	A	0.26	-0.2722175	0.05734142	3.19E-06
C	T	0.33	-0.2457898	0.05352132	6.40E-06
C	T	0.02	-0.8624698	0.1872659	6.03E-06
T	G	0.02	-0.8624698	0.1872659	6.03E-06
G	T	0.02	-0.9209676	0.1891232	1.82E-06
G	A	0.02	-0.8671378	0.1804994	2.46E-06
A	T	0.24	0.2839966	0.06155306	5.82E-06
C	T	0.03	-0.6681888	0.1425313	4.17E-06
C	T	0.13	0.3445761	0.07580077	7.86E-06
A	G	0.24	-0.277874	0.06012246	5.61E-06
G	C	0.03	0.6698193	0.1394391	2.46E-06
A	C	0.01	-1.041005	0.2283485	7.42E-06
GATAA	G	0.01	-0.9445712	0.2102422	9.92E-06
G	A	0.12	0.3628064	0.0794954	7.26E-06
G	A	0.12	0.3736056	0.07884899	3.32E-06
A	G	0.12	0.368045	0.07852223	4.19E-06
A	G	0.12	0.3736056	0.07884899	3.32E-06
G	A	0.11	0.3886587	0.08438876	6.03E-06
G	A	0.1	0.4262177	0.08791896	2.01E-06
G	A	0.11	0.3934968	0.08493497	5.34E-06
G	A	0.11	0.3789137	0.08393137	9.02E-06
A	C	0.11	0.3827612	0.08403201	7.55E-06
G	C	0.11	0.3827612	0.08403201	7.55E-06
C	T	0.09	0.4192361	0.08958731	4.33E-06
C	T	0.28	-0.2562832	0.05661896	8.56E-06
C	A	0.02	-0.7509397	0.1565613	2.55E-06
A	G	0.02	-0.914789	0.199808	6.81E-06
C	G	0.31	0.2665598	0.05629285	3.37E-06
A	G	0.41	0.2726611	0.05270932	4.30E-07
A	G	0.38	0.2440183	0.05258195	5.16E-06
C	G	0.4	0.2618775	0.05234239	9.71E-07
A	G	0.01	-0.4123072	0.06929305	8.10E-09
C	T	0.01	0.9494631	0.1368083	3.02E-11
T	G	0.01	0.9494631	0.1368083	3.02E-11
T	TC	0.01	0.773919	0.1185724	3.33E-10
A	G	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
A	T	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
C	T	0.01	0.773919	0.1185724	3.33E-10
C	T	0.01	0.773919	0.1185724	3.33E-10
T	C	0.01	0.773919	0.1185724	3.33E-10

C	G	0.01	0.773919	0.1185724	3.33E-10
G	C	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
T	C	0.01	0.773919	0.1185724	3.33E-10
AC	A	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
A	G	0.01	0.773919	0.1185724	3.33E-10
C	T	0.01	0.773919	0.1185724	3.33E-10
C	T	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.7320722	0.1233029	8.67E-09
G	A	0.01	0.773919	0.1185724	3.33E-10
G	T	0.01	0.773919	0.1185724	3.33E-10
G	A	0.01	0.773919	0.1185724	3.33E-10
A	G	0.01	0.773919	0.1185724	3.33E-10
T	C	0.02	0.70718	0.1161329	3.81E-09
A	G	0.02	0.70718	0.1161329	3.81E-09
T	C	0.02	0.70718	0.1161329	3.81E-09
C	G	0.02	0.70718	0.1161329	3.81E-09
C	T	0.02	0.70718	0.1161329	3.81E-09
AG	A	0.02	0.70718	0.1161329	3.81E-09
T	A	0.02	0.70718	0.1161329	3.81E-09
A	G	0.02	0.70718	0.1161329	3.81E-09
A	G	0.02	0.7382999	0.1099477	1.13E-10
A	AT	0.02	0.70718	0.1161329	3.81E-09
G	A	0.02	-0.4215554	0.06833862	2.67E-09
A	C	0.01	-0.6421592	0.1036913	2.33E-09
C	G	0.02	-0.5715164	0.08547113	1.47E-10
C	G	0.02	-0.5715164	0.08547113	1.47E-10
A	G	0.02	-0.5715164	0.08547113	1.47E-10
C	T	0.02	-0.5156622	0.08170973	1.22E-09
C	T	0.02	-0.536381	0.08392157	7.81E-10
C	T	0.02	-0.536381	0.08392157	7.81E-10
C	T	0.02	-0.4770824	0.08047403	9.69E-09
T	G	0.01	-0.7005454	0.1030533	7.77E-11
G	T	0.01	-0.7005454	0.1030533	7.77E-11
GA	G	0.01	-0.7005454	0.1030533	7.77E-11
T	C	0.01	-0.7005454	0.1030533	7.77E-11
A	G	0.02	-0.6239848	0.09685226	5.87E-10
TCTAA	T	0.02	0.4230529	0.06966164	4.17E-09
T	C	0.33	0.127394	0.02096058	4.86E-09
G	A	0.07	0.2178856	0.03611682	5.17E-09
GGTGTGTGTGTGT	G	0.01	-0.9144243	0.1528165	6.74E-09
T	C	0.02	-0.9709519	0.2159293	9.96E-06
A	C	0.24	-0.2834467	0.06121705	5.53E-06
TG	T	0.02	0.8600793	0.1875128	6.71E-06
C	T	0.03	-0.7523484	0.1609643	4.55E-06
C	T	0.28	-0.2819065	0.05669649	1.16E-06
C	T	0.03	-0.6933023	0.1497654	5.55E-06
AG	A	0.03	-0.6933023	0.1497654	5.55E-06

G	A	0.5	-0.2448713	0.05289213	5.55E-06
G	A	0.09	0.4184297	0.09084036	6.15E-06
A	G	0.09	0.4184297	0.09084036	6.15E-06
A	AGAT	0.02	-0.918733	0.2030131	8.78E-06
T	TATACACACACACAC	0.03	0.655616	0.1428435	6.62E-06
G	GTA	0.06	-0.5857865	0.1156999	7.55E-07
C	G	0.07	-0.4700918	0.1044964	9.87E-06
C	T	0.07	-0.4785216	0.1008439	3.30E-06
T	TA	0.2	0.3283355	0.06837498	2.55E-06
A	G	0.08	0.4703979	0.1019995	6.00E-06
C	A	0.02	0.8349091	0.1837189	8.08E-06
G	A	0.26	-0.2819511	0.05866831	2.50E-06
C	T	0.26	-0.2888725	0.058795	1.53E-06
C	T	0.26	-0.2853907	0.05883954	2.04E-06
C	T	0.25	-0.2696979	0.05992694	9.79E-06
G	A	0.36	-0.2662095	0.05240327	6.96E-07
G	C	0.08	0.4788358	0.100236	2.86E-06
T	A	0.05	0.5780128	0.1186083	1.84E-06
C	CA	0.05	0.6087797	0.121456	9.59E-07
A	G	0.06	0.57557	0.1179487	1.78E-06
G	GAT	0.04	0.6450481	0.1372948	4.08E-06
C	T	0.04	0.7106543	0.1483543	2.69E-06
G	C	0.03	0.7343642	0.1576371	4.87E-06
C	CTG	0.03	0.7310578	0.1513371	2.23E-06
T	TAC	0.03	0.8030166	0.1753211	6.90E-06
A	C	0.09	0.4537376	0.09310472	1.84E-06
G	A	0.09	0.4262362	0.09306103	6.90E-06
G	A	0.01	-1.233424	0.2688205	6.66E-06
C	T	0.01	-1.233424	0.2688205	6.66E-06
A	G	0.05	-0.5630393	0.1234894	7.57E-06
A	AAAATAAAT	0.42	-0.2614151	0.05738543	7.70E-06
TTGTG	T	0.09	0.4456498	0.09837259	8.60E-06
A	G	0.03	-0.7499759	0.1636194	6.80E-06
G	A	0.03	-0.7499759	0.1636194	6.80E-06
T	TCACA	0.04	-0.6992976	0.1497519	4.64E-06
C	A	0.31	-0.2704751	0.05589467	2.15E-06
G	A	0.31	-0.2642702	0.05598497	3.69E-06
G	C	0.31	-0.2673679	0.0561084	3.01E-06
T	C	0.31	-0.2624076	0.05609949	4.48E-06
T	G	0.33	-0.2565124	0.05523772	5.21E-06
C	T	0.01	-1.078806	0.2394313	9.57E-06
T	C	0.08	-0.431794	0.09502884	8.10E-06
A	G	0.24	-0.278241	0.06155292	8.98E-06
G	A	0.04	-0.666316	0.1461289	7.55E-06
A	G	0.2	0.3081154	0.06825611	9.23E-06
A	G	0.41	0.2488928	0.0547275	7.96E-06
A	G	0.42	0.2649398	0.05384509	1.48E-06
C	T	0.42	0.2480753	0.05431832	7.31E-06
G	A	0.16	0.3380387	0.07410948	7.50E-06
A	T	0.16	0.3572528	0.07559793	3.60E-06

A	G	0.16	0.3529443	0.07611892	5.37E-06
G	A	0.16	0.3572528	0.07559793	3.60E-06
C	A	0.15	0.3612106	0.07576588	2.98E-06
A	G	0.16	0.3579399	0.075663	3.52E-06
A	G	0.16	0.3572528	0.07559793	3.60E-06
C	A	0.15	0.3603491	0.07640671	3.76E-06
G	A	0.15	0.3612106	0.07576588	2.98E-06
C	T	0.15	0.3536385	0.07594259	4.92E-06
C	T	0.15	0.3398817	0.07503366	8.62E-06
C	A	0.15	0.3479687	0.07502603	5.34E-06
G	A	0.14	0.3521876	0.07601085	5.45E-06
A	G	0.01	0.9252032	0.1538872	6.20E-09
G	C	0.01	1.082219	0.1775382	3.96E-09
T	TAC	0.02	0.6689931	0.1100949	4.69E-09
C	A	0.31	-0.1679273	0.02744209	3.55E-09
G	A	0.32	-0.1635197	0.02750596	9.04E-09
T	C	0.01	-1.115468	0.2459394	8.21E-06
T	C	0.02	-0.9691645	0.2147117	9.04E-06
T	G	0.06	0.5240738	0.1151814	7.71E-06
A	G	0.05	0.5453195	0.1208521	9.10E-06
A	T	0.01	-1.15542	0.2436288	3.25E-06
T	C	0.22	-0.2970891	0.06495567	6.94E-06
G	A	0.22	-0.2941992	0.06439737	7.10E-06
CAT	C	0.23	-0.288455	0.0633744	7.65E-06
A	T	0.23	-0.2940273	0.06393051	6.20E-06
T	C	0.48	-0.222887	0.04904826	7.91E-06
AGT	A	0.03	-0.6984	0.1550129	9.38E-06
T	C	0.05	-0.5891966	0.1170297	8.34E-07
C	T	0.05	-0.6222718	0.1227288	7.04E-07
T	C	0.05	-0.6133962	0.1195403	5.25E-07
G	A	0.05	-0.5907916	0.12308	2.50E-06
G	A	0.05	-0.6162374	0.1219239	7.60E-07
C	T	0.04	-0.6270858	0.1310318	2.67E-06
A	C	0.05	-0.6133962	0.1195403	5.25E-07
T	G	0.05	-0.5974915	0.119212	9.29E-07
GACATTA	G	0.05	-0.6162374	0.1219239	7.60E-07
T	A	0.05	-0.5794145	0.1262499	6.47E-06
A	G	0.05	-0.6133541	0.1233849	1.13E-06
G	A	0.05	-0.6373206	0.1226232	3.81E-07
C	T	0.05	-0.6162374	0.1219239	7.60E-07
C	G	0.04	-0.6270858	0.1310318	2.67E-06
A	G	0.05	-0.6162374	0.1219239	7.60E-07
A	G	0.05	-0.6133962	0.1195403	5.25E-07
G	A	0.05	-0.6222718	0.1227288	7.04E-07
A	G	0.05	-0.520925	0.1144458	7.65E-06
TTTTG	T	0.05	-0.6133962	0.1195403	5.25E-07
ATAGT	A	0.04	-0.6270858	0.1310318	2.67E-06
C	T	0.05	-0.6117162	0.1227677	1.07E-06
A	G	0.05	-0.6233386	0.1189091	3.06E-07
C	G	0.05	-0.619937	0.1210627	5.52E-07

A	G	0.05	-0.619078	0.1202912	4.88E-07
A	G	0.05	-0.6133962	0.1195403	5.25E-07
T	C	0.05	-0.6145167	0.1175853	3.31E-07
C	T	0.05	-0.6003599	0.126449	3.17E-06
A	G	0.05	-0.6140989	0.1202904	5.95E-07
T	C	0.05	-0.619078	0.1202912	4.88E-07
G	A	0.05	-0.6005181	0.1280891	4.16E-06
C	T	0.05	-0.6886282	0.1244605	7.15E-08
G	T	0.05	-0.6222718	0.1227288	7.04E-07
T	G	0.04	-0.6419022	0.12984	1.28E-06
C	A	0.04	-0.6665311	0.1307248	6.14E-07
G	C	0.35	-0.2504769	0.05520291	8.15E-06
T	C	0.02	1.023534	0.2091296	1.62E-06
G	A	0.02	-0.9531875	0.1833179	3.77E-07
T	TG	0.49	-0.248186	0.05439021	7.28E-06
G	A	0.49	-0.2471971	0.05426158	7.52E-06
G	T	0.49	-0.2465925	0.05410611	7.45E-06
G	A	0.02	-0.9680916	0.2136372	8.36E-06
A	G	0.01	-1.037546	0.2279437	7.65E-06
A	C	0.01	-1.037546	0.2279437	7.65E-06
G	C	0.01	-1.037546	0.2279437	7.65E-06
A	G	0.01	-1.037546	0.2279437	7.65E-06
T	C	0.01	-1.037546	0.2279437	7.65E-06
A	G	0.01	-1.077954	0.2275208	3.32E-06
CACTCATCTGTTCCA	C	0.01	-1.131667	0.2337493	2.07E-06
A	G	0.01	-1.077954	0.2275208	3.32E-06
A	G	0.01	-1.077954	0.2275208	3.32E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
C	G	0.01	-1.197751	0.243639	1.46E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
C	CT	0.01	-1.176049	0.2404677	1.64E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.098772	0.2388872	6.19E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.116811	0.2337019	2.76E-06
T	TA	0.01	-1.176049	0.2404677	1.64E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
A	C	0.01	-1.116811	0.2337019	2.76E-06
T	A	0.01	-1.116811	0.2337019	2.76E-06
T	TCATGGATATGGAAC	0.01	-1.139088	0.2483545	6.56E-06

A	G	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
A	C	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
T	TAA	0.01	-1.176049	0.2404677	1.64E-06
A	C	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.192761	0.2382212	9.51E-07
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.139979	0.2385453	2.75E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
G	GCT	0.01	-1.176049	0.2404677	1.64E-06
T	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
C	CT	0.01	-1.118331	0.2337938	2.70E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
C	G	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	TGAACTTGGATCAGA	0.01	-1.187712	0.2459049	2.18E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
T	TCC	0.01	-1.176049	0.2404677	1.64E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	TGTGTGTGTGTGA	0.01	-1.227693	0.2539745	2.14E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
A	AATTAT	0.01	-1.176049	0.2404677	1.64E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06

A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
T	TA	0.01	-1.176049	0.2404677	1.64E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
T	G	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
T	G	0.01	-1.209591	0.2574895	3.99E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
AAATATTTTTTACCAGT	T	0.01	-1.176049	0.2404677	1.64E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.114573	0.2387674	4.56E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
ACTGAAACATTTTTCC	C	0.01	-1.176302	0.2459911	2.72E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.193701	0.2435947	1.57E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
C	G	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
T	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
C	G	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
G	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116878	0.2387103	4.34E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06
T	A	0.01	-1.116811	0.2337019	2.76E-06
G	A	0.01	-1.124663	0.2386215	3.72E-06
G	A	0.01	-1.116811	0.2337019	2.76E-06

A	G	0.01	-1.116811	0.2337019	2.76E-06
TG	T	0.01	-1.176049	0.2404677	1.64E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
T	A	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
G	C	0.01	-1.116811	0.2337019	2.76E-06
A	T	0.01	-1.116811	0.2337019	2.76E-06
T	A	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
C	A	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	G	0.01	-1.116811	0.2337019	2.76E-06
C	T	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
T	C	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.116811	0.2337019	2.76E-06
A	G	0.01	-1.197312	0.2537423	3.62E-06
C	T	0.01	-1.046119	0.230834	8.35E-06
G	A	0.02	-0.9825572	0.2071121	3.23E-06
C	T	0.01	-1.170526	0.2572924	7.73E-06
T	G	0.02	-0.7092714	0.1519509	4.56E-06
GT	G	0.13	0.3637136	0.07918054	6.36E-06
T	C	0.02	-0.8108386	0.1772915	6.95E-06
G	A	0.04	-0.6005967	0.1329734	8.93E-06
A	G	0.4	0.2245242	0.04808933	4.54E-06
T	A	0.02	-0.8612062	0.1831766	3.92E-06
T	C	0.03	-0.6622662	0.1452559	7.40E-06
T	TA	0.28	-0.2730178	0.05916977	5.80E-06
T	C	0.19	-0.3040995	0.06431245	3.47E-06
T	TAGTC	0.41	0.2535205	0.05397866	4.00E-06
C	T	0.4	0.2449315	0.05410917	8.54E-06
G	A	0.4	0.2550372	0.0541814	3.82E-06
G	A	0.41	0.244867	0.05351969	6.89E-06
T	C	0.4	0.2510469	0.05419665	5.35E-06
A	G	0.4	0.2506878	0.05444837	6.06E-06
CAA	C	0.4	0.2440126	0.05416303	9.39E-06
C	A	0.37	0.2508737	0.05489518	7.05E-06
T	A	0.38	0.2550531	0.05484894	4.94E-06
A	G	0.38	0.2586016	0.05507441	4.02E-06
G	C	0.38	0.2513802	0.05491666	6.83E-06
A	G	0.36	0.2476403	0.0551389	9.98E-06
C	T	0.07	-0.4801824	0.1056879	7.94E-06
T	C	0.08	-0.4402942	0.09666345	7.54E-06
C	T	0.08	-0.4402942	0.09666345	7.54E-06
C	T	0.08	-0.4402942	0.09666345	7.54E-06
C	G	0.16	-0.3295452	0.07243562	7.72E-06

T	C	0.27	-0.2869738	0.06006092	2.76E-06
C	A	0.26	-0.2738414	0.06021265	7.78E-06
ATGTG	A	0.04	0.633503	0.1305456	1.96E-06
TACACACAC	T	0.18	0.3211243	0.07028625	7.09E-06
G	A	0.17	-0.3171408	0.07032327	9.20E-06
C	CTGTG	0.17	-0.3566253	0.07495988	3.04E-06
G	A	0.21	-0.3034405	0.06523986	4.91E-06
G	A	0.05	0.5842701	0.1259853	5.22E-06
AACAC	A	0.02	0.85067	0.1778075	2.69E-06
G	A	0.02	-0.7812001	0.1734984	9.49E-06
G	A	0.42	0.2411178	0.0517734	4.78E-06
C	T	0.39	-0.2566183	0.05464703	4.02E-06
G	T	0.02	-0.9718561	0.2059701	3.63E-06
T	C	0.15	0.3556158	0.07219799	1.40E-06
G	C	0.01	-1.069855	0.2357588	8.13E-06
G	A	0.13	0.3742592	0.08156506	6.50E-06
T	TTG	0.14	-0.3705223	0.08100013	6.92E-06
A	G	0.16	-0.3487079	0.0707373	1.37E-06
G	T	0.17	-0.3253574	0.06877001	3.43E-06
A	G	0.16	-0.3486825	0.07273935	2.57E-06
T	A	0.16	-0.3486825	0.07273935	2.57E-06
C	T	0.05	-0.3421779	0.05777947	9.38E-09
A	G	0.05	-0.3333292	0.0560138	8.05E-09
C	T	0.05	-0.3561409	0.05867595	4.24E-09
C	T	0.05	-0.3340397	0.05625534	8.62E-09
C	T	0.05	-0.3339158	0.05542177	5.40E-09
A	G	0.05	-0.3250599	0.0549142	9.52E-09
C	T	0.05	-0.3453967	0.05753329	6.06E-09
T	G	0.02	-0.5089443	0.08600136	9.71E-09
A	G	0.05	-0.3430159	0.05719212	6.25E-09
A	G	0.05	-0.3424939	0.0578555	9.49E-09
T	C	0.05	-0.3424939	0.0578555	9.49E-09
C	T	0.05	-0.3671671	0.05992669	3.10E-09
T	C	0.14	0.2877315	0.04672014	3.18E-09
G	T	0.12	0.3095855	0.05185881	7.28E-09
C	T	0.05	-0.5844001	0.09830532	8.30E-09
G	A	0.02	-0.9655572	0.1628223	8.98E-09
A	G	0.05	-0.3423682	0.05707422	6.28E-09
CT	C	0.01	1.215362	0.2516632	2.19E-06
C	A	0.01	1.118489	0.2478327	9.08E-06
A	T	0.02	0.7805482	0.1725874	8.71E-06
TACACACAC	T	0.02	0.8795297	0.1826639	2.34E-06
CA	C	0.02	0.93065	0.2061581	9.04E-06
T	C	0.02	1.010381	0.2115947	2.81E-06
C	T	0.34	0.2458909	0.05335934	5.97E-06
C	T	0.34	0.2459096	0.05341702	6.09E-06
C	G	0.34	0.2494347	0.05336267	4.44E-06
G	C	0.34	0.2458909	0.05335934	5.97E-06
A	G	0.34	0.2458909	0.05335934	5.97E-06
C	G	0.34	0.2451982	0.05332775	6.25E-06

A	G	0.34	0.2458909	0.05335934	5.97E-06
C	T	0.34	0.2458909	0.05335934	5.97E-06
A	G	0.34	0.2458909	0.05335934	5.97E-06
A	C	0.33	0.2410758	0.05344997	9.19E-06
G	A	0.34	0.2458909	0.05335934	5.97E-06
C	A	0.34	0.23909	0.05218928	6.73E-06
G	A	0.34	0.2435793	0.05221903	4.64E-06
A	T	0.34	0.2458909	0.05335934	5.97E-06
A	G	0.34	0.252692	0.05327689	3.25E-06
C	T	0.34	0.2458909	0.05335934	5.97E-06
C	T	0.34	0.2459096	0.05341702	6.09E-06
G	A	0.34	0.2458909	0.05335934	5.97E-06
C	T	0.34	0.2469988	0.05323352	5.18E-06
C	T	0.34	0.2458909	0.05335934	5.97E-06
G	A	0.34	0.2458909	0.05335934	5.97E-06
G	A	0.34	0.2458909	0.05335934	5.97E-06
C	T	0.34	0.2458909	0.05335934	5.97E-06
C	A	0.34	0.2458909	0.05335934	5.97E-06
A	G	0.34	0.2458909	0.05335934	5.97E-06
CAT	C	0.34	0.2458909	0.05335934	5.97E-06
A	G	0.34	0.2501976	0.05341034	4.24E-06
A	G	0.31	0.2432815	0.05293152	6.30E-06
C	A	0.31	0.2402318	0.05322634	9.07E-06
C	T	0.33	-0.2431498	0.05412318	9.94E-06
G	T	0.3	0.2629271	0.05722963	6.35E-06
T	C	0.02	0.9298211	0.2062413	9.27E-06
T	C	0.02	0.916661	0.1986114	5.78E-06
T	C	0.01	1.120637	0.2383875	3.94E-06
C	T	0.01	1.169181	0.2517926	5.10E-06
C	G	0.01	1.23211	0.2429844	7.04E-07
C	T	0.01	1.23211	0.2429844	7.04E-07
G	A	0.01	1.139433	0.2323774	1.55E-06
G	A	0.07	0.5205526	0.1040969	9.83E-07
C	A	0.07	0.506657	0.1033344	1.55E-06
G	A	0.27	-0.2986207	0.05839852	5.74E-07
G	C	0.26	-0.2807571	0.05900266	3.03E-06
G	A	0.26	-0.2870644	0.05916277	1.97E-06
G	A	0.27	-0.3061927	0.05814071	2.73E-07
C	CCTT	0.26	-0.2862002	0.05918414	2.13E-06
G	C	0.01	1.213769	0.244057	1.12E-06
C	T	0.01	1.074697	0.2123925	7.41E-07
A	G	0.4	-0.2630103	0.05394504	1.77E-06
G	C	0.39	-0.2450136	0.05413618	8.59E-06
A	G	0.45	0.2534553	0.05418492	4.37E-06
A	T	0.29	0.2691653	0.05807138	5.29E-06
A	C	0.45	0.2559029	0.05433426	3.78E-06
CATAT	C	0.02	0.8973351	0.1877075	2.74E-06
C	T	0.02	0.9519357	0.2066633	6.02E-06
T	G	0.02	0.9519357	0.2066633	6.02E-06
A	T	0.01	1.135603	0.2130257	1.98E-07

G	A	0.01	1.18296	0.2188794	1.37E-07
A	G	0.04	0.613173	0.135258	8.31E-06
C	G	0.04	0.6317278	0.1362697	5.27E-06
C	T	0.04	0.6480183	0.1292418	9.23E-07
T	TA	0.05	0.5322414	0.1162961	6.87E-06
G	A	0.04	0.585054	0.129726	9.21E-06
C	T	0.01	1.266512	0.2673383	3.33E-06
G	C	0.01	1.410261	0.2545065	6.89E-08
C	G	0.01	1.410261	0.2545065	6.89E-08
C	T	0.1	0.4278065	0.08703617	1.47E-06
T	C	0.1	0.4292902	0.08789129	1.70E-06
A	G	0.11	0.3771485	0.08234133	6.75E-06
C	CTGTG	0.01	1.286175	0.2407957	1.88E-07
C	T	0.01	1.068245	0.2369465	9.27E-06
C	T	0.01	1.215413	0.2489599	1.72E-06
C	T	0.01	0.9813908	0.2086342	3.88E-06
C	T	0.01	0.9670525	0.2132355	8.24E-06
A	T	0.04	0.5851911	0.1300449	9.62E-06
A	G	0.06	0.4910898	0.1089533	9.31E-06
A	T	0.13	0.3458676	0.07558299	6.88E-06
CCACATG	C	0.06	0.5007883	0.1099073	7.51E-06
G	GA	0.01	1.150141	0.2400622	2.61E-06
C	G	0.27	0.2787978	0.05814969	2.57E-06
G	A	0.26	0.2801712	0.05812835	2.29E-06
A	G	0.01	1.154306	0.2390622	2.20E-06
G	A	0.01	1.172646	0.2464423	3.03E-06
T	A	0.01	1.172646	0.2464423	3.03E-06
A	AAAACAAAC	0.16	-0.3221663	0.07113205	8.47E-06
A	G	0.42	-0.2566461	0.05499372	4.59E-06
G	A	0.01	1.099436	0.231029	3.03E-06
T	C	0.01	1.099436	0.231029	3.03E-06
T	C	0.01	1.099436	0.231029	3.03E-06
G	A	0.01	1.099436	0.231029	3.03E-06
C	T	0.01	1.099436	0.231029	3.03E-06
C	A	0.02	1.076395	0.220459	1.71E-06
G	A	0.01	1.099436	0.231029	3.03E-06
G	A	0.01	1.099436	0.231029	3.03E-06
A	G	0.01	1.099436	0.231029	3.03E-06
G	C	0.01	1.099436	0.231029	3.03E-06
C	A	0.01	1.099436	0.231029	3.03E-06
A	G	0.01	1.099436	0.231029	3.03E-06
GA	G	0.01	1.099436	0.231029	3.03E-06
C	T	0.01	1.099436	0.231029	3.03E-06
A	G	0.01	1.099436	0.231029	3.03E-06
C	T	0.01	1.099436	0.231029	3.03E-06
T	C	0.01	1.099436	0.231029	3.03E-06
C	T	0.01	1.099436	0.231029	3.03E-06
A	G	0.01	1.072187	0.2367685	8.49E-06
T	C	0.01	1.233849	0.2580543	2.73E-06
C	T	0.01	1.220634	0.2613905	4.53E-06

A	G	0.01	1.220634	0.2613905	4.53E-06
C	A	0.02	0.8127567	0.1798611	8.86E-06
C	T	0.01	1.114269	0.2420199	6.08E-06
C	T	0.01	1.106877	0.2236797	1.26E-06
G	A	0.02	0.8800467	0.1926171	7.10E-06
G	A	0.15	0.3250985	0.07231354	9.80E-06
C	T	0.02	0.9201756	0.2037391	8.95E-06
G	C	0.02	1.08787	0.2151829	7.57E-07
T	C	0.02	0.9516156	0.2020383	3.78E-06
C	T	0.03	0.7617765	0.1658143	6.35E-06
A	G	0.03	0.7617765	0.1658143	6.35E-06
C	A	0.01	1.021246	0.2268689	9.56E-06
C	T	0.01	1.021246	0.2268689	9.56E-06
G	T	0.01	1.021246	0.2268689	9.56E-06
C	T	0.01	1.056226	0.224784	3.97E-06
G	A	0.01	1.074318	0.2205153	1.80E-06
A	G	0.02	0.8874547	0.1811949	1.59E-06
A	C	0.02	0.9237058	0.2037953	8.34E-06
C	G	0.02	0.9553542	0.2057358	5.09E-06
C	T	0.02	0.9553542	0.2057358	5.09E-06
C	CT	0.02	0.9553542	0.2057358	5.09E-06
C	T	0.04	0.6326546	0.1400338	8.89E-06
T	C	0.06	0.5550931	0.1157733	2.57E-06
G	C	0.01	1.130088	0.2482539	7.65E-06
T	A	0.01	1.130088	0.2482539	7.65E-06
G	A	0.01	1.130088	0.2482539	7.65E-06
T	C	0.01	1.130088	0.2482539	7.65E-06
T	C	0.01	1.135704	0.248818	7.25E-06
A	C	0.01	1.106007	0.2436185	8.07E-06
CTCCTTCCT	C	0.01	1.037998	0.216524	2.58E-06
C	T	0.02	0.8810635	0.1901452	5.33E-06
G	A	0.02	0.7767038	0.1721619	9.15E-06
G	GT	0.18	-0.3027695	0.06685573	8.48E-06
G	A	0.25	-0.2665757	0.05844685	7.36E-06
A	G	0.04	0.6464195	0.1362996	3.26E-06
A	G	0.27	0.2616749	0.05798886	9.11E-06
T	C	0.26	0.2756345	0.06033852	7.13E-06
T	G	0.09	0.4213773	0.09281398	8.07E-06
T	TTAAA	0.02	0.7633473	0.169664	9.65E-06
G	A	0.09	-0.4094855	0.09073162	9.08E-06
G	T	0.08	-0.4413934	0.09619758	6.52E-06
T	C	0.08	-0.4385927	0.09206745	2.96E-06
A	G	0.08	-0.4385927	0.09206745	2.96E-06
G	A	0.08	-0.4385927	0.09206745	2.96E-06
T	G	0.02	0.9785657	0.1969972	1.15E-06
T	G	0.03	0.791968	0.1615424	1.56E-06
T	C	0.03	0.791968	0.1615424	1.56E-06
T	A	0.03	0.791968	0.1615424	1.56E-06
T	C	0.03	0.791968	0.1615424	1.56E-06
C	T	0.03	0.791968	0.1615424	1.56E-06

G	T	0.03	0.791968	0.1615424	1.56E-06
T	C	0.04	0.6347508	0.1370293	5.36E-06
G	A	0.04	0.6759266	0.135534	1.05E-06
G	A	0.04	0.6385141	0.1345308	3.20E-06
C	A	0.03	0.732923	0.1540439	3.04E-06
A	G	0.04	0.7042218	0.1412139	1.05E-06
T	C	0.04	0.7042218	0.1412139	1.05E-06
G	GGAAAGA	0.01	1.262887	0.246847	5.67E-07
A	G	0.26	0.264521	0.05777449	6.81E-06
A	G	0.05	0.5523597	0.1199558	6.06E-06
A	T	0.05	0.6162312	0.1192212	4.39E-07
G	C	0.43	-0.2257431	0.04970365	8.01E-06
T	G	0.04	0.6243697	0.1387481	9.62E-06
A	G	0.01	1.217427	0.2697193	9.06E-06
T	G	0.01	1.217427	0.2697193	9.06E-06
G	C	0.01	1.217427	0.2697193	9.06E-06
C	T	0.01	1.217427	0.2697193	9.06E-06
A	G	0.01	1.217427	0.2697193	9.06E-06
C	T	0.01	1.217427	0.2697193	9.06E-06
T	C	0.01	1.217427	0.2697193	9.06E-06
A	G	0.31	0.2642037	0.05692789	5.15E-06
T	C	0.01	1.217427	0.2697193	9.06E-06
C	T	0.01	1.217427	0.2697193	9.06E-06
A	ATT	0.01	1.173927	0.2599902	9.00E-06
G	A	0.01	1.173927	0.2599902	9.00E-06
C	CT	0.01	1.15143	0.2516001	6.87E-06
G	A	0.05	0.5417622	0.1185723	7.10E-06
C	T	0.03	0.627393	0.1343928	4.56E-06
CG	C	0.07	0.4806257	0.1039652	5.59E-06
A	G	0.02	1.007937	0.1971309	5.75E-07
A	G	0.07	0.4765264	0.1024888	4.96E-06
C	T	0.01	1.011412	0.2172919	4.85E-06
G	A	0.25	0.2814718	0.05981817	3.86E-06
C	T	0.01	1.421794	0.2501017	3.29E-08
A	C	0.03	0.7121302	0.1487761	2.66E-06
A	C	0.03	0.7121302	0.1487761	2.66E-06
A	G	0.03	0.722032	0.1470396	1.50E-06
T	G	0.37	-0.2598139	0.05460735	3.04E-06
A	G	0.35	-0.2549602	0.05570879	6.86E-06
TG	T	0.37	-0.2622657	0.05489199	2.77E-06
TTTACCAAG	T	0.38	-0.2680433	0.05383663	1.09E-06
T	G	0.37	-0.2604637	0.05503615	3.41E-06
G	C	0.4	-0.2541937	0.05328809	2.87E-06
T	G	0.49	-0.2341167	0.04937443	3.27E-06
CGCA	C	0.44	-0.2667033	0.05144639	4.08E-07
G	C	0.32	-0.2578665	0.05565181	5.33E-06
T	C	0.01	1.069331	0.2315509	5.71E-06
G	A	0.01	1.173429	0.2432914	2.25E-06
C	T	0.02	0.9813656	0.2068021	3.22E-06
CTATTATTATT	C	0.01	1.237326	0.2445439	7.42E-07

C	T	0.04	0.6836107	0.1337683	5.82E-07
G	A	0.01	1.197959	0.2515642	2.98E-06
ATCAAGGCCTGGCCCA	T	0.01	1.186951	0.2580439	6.19E-06
A	G	0.01	1.054923	0.2326733	8.29E-06
T	G	0.01	1.079163	0.2368481	7.51E-06
TTTTCTTTCTTTC	T	0.05	0.6349132	0.1222317	3.88E-07
G	A	0.44	-0.2412705	0.05327103	8.47E-06
C	T	0.44	-0.242684	0.05323972	7.44E-06
G	A	0.26	0.2701219	0.05984358	9.05E-06
A	G	0.02	0.8512886	0.1826135	4.70E-06
G	A	0.39	0.2409298	0.05316908	8.38E-06
A	G	0.01	1.021626	0.2246412	7.80E-06
T	C	0.02	0.9007011	0.1982969	7.99E-06
A	T	0.02	0.9007011	0.1982969	7.99E-06
T	C	0.01	1.033916	0.2240852	5.82E-06
G	A	0.01	1.161588	0.2304271	8.12E-07
A	C	0.01	1.104638	0.2248309	1.48E-06
T	TA	0.06	0.5209507	0.113388	6.34E-06
C	G	0.46	-0.2335986	0.05173082	8.98E-06
C	T	0.46	-0.2336777	0.05174555	8.97E-06
A	G	0.39	-0.2443618	0.05264832	5.14E-06
CCTT	C	0.39	-0.2450636	0.05276402	5.07E-06
T	C	0.39	-0.251013	0.05263593	2.89E-06
A	G	0.39	-0.251013	0.05263593	2.89E-06
G	T	0.39	-0.2472135	0.05269714	4.11E-06
G	A	0.39	-0.2513925	0.0527889	2.98E-06
C	T	0.39	-0.2419862	0.05305043	7.34E-06
A	G	0.01	1.108806	0.2463807	9.60E-06
GTAGATAGATAGA	G	0.06	0.522391	0.1088743	2.53E-06
TATGTC	T	0.07	0.4792364	0.1056909	8.27E-06
G	C	0.06	0.4814493	0.1069637	9.57E-06
C	G	0.06	0.4814493	0.1069637	9.57E-06
G	A	0.06	0.4814493	0.1069637	9.57E-06
C	T	0.06	0.4814493	0.1069637	9.57E-06
G	A	0.06	0.4814493	0.1069637	9.57E-06
C	T	0.06	0.4814493	0.1069637	9.57E-06
C	T	0.06	0.4814493	0.1069637	9.57E-06
A	T	0.06	0.4814493	0.1069637	9.57E-06
C	G	0.06	0.4814493	0.1069637	9.57E-06
C	T	0.01	1.273021	0.2008147	9.78E-10
C	T	0.01	1.1823	0.1975872	7.40E-09
G	GA	0.01	1.008243	0.1684739	6.75E-09
C	T	0.01	1.130349	0.1855866	3.80E-09
T	A	0.01	1.161228	0.190182	3.61E-09
C	CTGTG	0.01	1.028421	0.1734241	9.05E-09
C	T	0.01	1.173462	0.1844369	8.50E-10
C	T	0.01	1.079985	0.1764775	3.58E-09
A	T	0.01	0.9341661	0.1576309	9.24E-09
C	A	0.03	0.684389	0.1133297	5.65E-09
G	A	0.01	0.9002714	0.1497973	7.06E-09

G	C	0.01	1.113511	0.185748	6.78E-09
C	G	0.01	1.113511	0.185748	6.78E-09
C	A	0.03	0.7216951	0.1158408	1.89E-09
A	T	0.1	-0.4162379	0.06727628	2.25E-09
C	T	0.04	0.5089245	0.0860408	9.90E-09
C	T	0.01	0.9835396	0.165987	9.28E-09
C	T	0.01	1.010139	0.1701552	8.73E-09
G	C	0.01	1.109299	0.1806957	3.02E-09
C	G	0.01	1.109299	0.1806957	3.02E-09
C	T	0.01	1.017236	0.171252	8.57E-09
CTATTTATTTATT	C	0.01	1.113967	0.1817855	3.65E-09
T	G	0.4	0.2493837	0.04200482	9.06E-09
TTTTCTTTCTTTC	T	0.05	0.5121981	0.08342998	2.91E-09
A	T	0.01	0.9631979	0.1560369	2.50E-09
G	A	0.01	0.9567835	0.1569435	3.79E-09
G	C	0.01	1.117859	0.1825781	3.29E-09
C	G	0.01	1.117859	0.1825781	3.29E-09
T	A	0.06	0.4652417	0.07734856	6.11E-09
A	G	0.02	0.8598987	0.1406246	3.45E-09
T	TA	0.02	0.7832233	0.131366	7.65E-09
G	GGAAAGA	0.01	1.182245	0.1889688	1.79E-09
C	T	0.01	1.143863	0.187623	3.85E-09
C	T	0.01	1.010014	0.1675689	5.39E-09
C	CTGTG	0.01	1.048293	0.1737547	6.58E-09
G	C	0.02	1.020777	0.1652006	3.04E-09
T	G	0.03	0.7528755	0.1247204	6.46E-09
T	C	0.03	0.7528755	0.1247204	6.46E-09
T	A	0.03	0.7528755	0.1247204	6.46E-09
T	C	0.03	0.7528755	0.1247204	6.46E-09
C	T	0.03	0.7528755	0.1247204	6.46E-09
G	T	0.03	0.7528755	0.1247204	6.46E-09
C	A	0.03	0.7255925	0.1183299	3.90E-09
A	G	0.02	0.8160997	0.1377615	9.73E-09
CATAT	C	0.02	0.8767525	0.1434268	3.48E-09
G	C	0.17	-0.3178198	0.07002328	8.24E-06
A	G	0.03	-0.7206134	0.1525232	3.60E-06
C	T	0.01	-1.203257	0.2424596	1.20E-06
CA	C	0.01	-0.9784041	0.2163411	8.84E-06
G	A	0.49	-0.2542976	0.05646864	9.62E-06
G	A	0.49	-0.2542395	0.05646041	9.63E-06
T	A	0.49	-0.2542395	0.05646041	9.63E-06
C	T	0.49	-0.2542395	0.05646041	9.63E-06
C	T	0.49	-0.2542395	0.05646041	9.63E-06
C	T	0.49	-0.2542395	0.05646041	9.63E-06
T	C	0.49	-0.2552309	0.05640527	8.75E-06
C	T	0.03	0.7407344	0.1642698	9.37E-06
A	G	0.4	0.2609146	0.05574723	4.39E-06
C	T	0.32	-0.242303	0.05298646	7.09E-06
T	C	0.01	-1.2928	0.2537822	6.45E-07
A	AGT	0.03	-0.7253167	0.1562424	5.21E-06

T	A	0.17	-0.3346007	0.07362535	8.03E-06
T	C	0.37	0.2316965	0.05151153	9.85E-06
T	G	0.34	-0.2697204	0.05815431	5.31E-06
T	A	0.32	-0.2670982	0.05826098	6.73E-06
G	A	0.03	-0.7330897	0.156997	4.61E-06
T	G	0.03	-0.6982944	0.1544753	8.92E-06
C	G	0.04	-0.6993442	0.1511036	5.54E-06
T	C	0.04	-0.6993442	0.1511036	5.54E-06
T	C	0.04	-0.6993442	0.1511036	5.54E-06
TTTATA	T	0.02	-1.214645	0.2247611	1.42E-07
T	C	0.05	-0.5822903	0.126643	6.35E-06
C	T	0.06	-0.5354757	0.1182791	8.66E-06
T	C	0.45	0.2527342	0.05537842	7.38E-06
A	T	0.45	0.2562405	0.05543359	5.69E-06
G	A	0.04	-0.6761673	0.1453088	4.96E-06
G	C	0.04	-0.6872116	0.1463574	4.10E-06
T	A	0.04	-0.6761673	0.1453088	4.96E-06
A	G	0.04	-0.6761673	0.1453088	4.96E-06
A	G	0.41	0.24304	0.05353076	8.18E-06
T	C	0.35	0.2538834	0.05440784	4.68E-06
C	T	0.05	-0.5522984	0.1181178	4.48E-06
A	T	0.07	-0.557081	0.1072516	3.98E-07
G	T	0.02	-0.9606612	0.2027375	3.38E-06
CTT	C	0.01	-1.073139	0.2353805	7.53E-06
T	TC	0.41	0.2526898	0.05482524	6.04E-06
C	T	0.45	0.2462581	0.05457903	9.26E-06
A	G	0.42	0.2664167	0.05373677	1.23E-06
C	G	0.44	0.2483954	0.05463789	7.97E-06
G	A	0.43	0.2462013	0.05458112	9.31E-06
A	G	0.43	0.2540805	0.05460546	4.96E-06
TTTG	T	0.43	0.2476506	0.05454292	8.17E-06
A	T	0.08	-0.5231029	0.1027195	6.50E-07
G	A	0.02	-1.023551	0.2240101	7.20E-06
G	A	0.21	-0.2989561	0.06549846	7.36E-06
T	C	0.21	-0.2989561	0.06549846	7.36E-06
A	G	0.21	-0.2989561	0.06549846	7.36E-06
A	C	0.21	-0.2989561	0.06549846	7.36E-06
C	A	0.05	-0.5648526	0.1251393	9.19E-06
A	T	0.05	-0.5924973	0.1286334	6.12E-06
C	T	0.09	-0.4481734	0.09657214	5.24E-06
C	T	0.1	-0.4033719	0.08964099	9.76E-06
G	GGACTT	0.42	-0.2442214	0.05420196	9.52E-06
C	G	0.03	-0.7865033	0.1696948	5.38E-06
A	T	0.07	-0.2416523	0.03988396	4.76E-09
C	T	0.05	-0.3939402	0.06177211	9.97E-10
C	CTT	0.01	0.8264934	0.1339023	2.65E-09
A	G	0.02	0.7585145	0.1194094	9.51E-10
G	T	0.02	0.8798346	0.1464204	6.19E-09
T	TC	0.41	0.1207964	0.01983297	3.98E-09
C	T	0.43	0.1162793	0.01957726	8.97E-09

A	G	0.42	0.1237753	0.01949803	9.71E-10
C	T	0.44	0.1178995	0.01970426	7.10E-09
A	G	0.44	0.1178995	0.01970426	7.10E-09
C	T	0.01	-1.309508	0.2151371	5.41E-09
C	CTGTG	0.06	-0.423082	0.07000137	5.28E-09
TTTATA	T	0.02	-0.6024599	0.1005859	6.92E-09
G	A	0.02	-0.609829	0.09773313	1.77E-09
T	A	0.02	-0.609829	0.09773313	1.77E-09
G	A	0.02	-0.5951004	0.09457103	1.33E-09
T	C	0.02	-0.5688384	0.09279482	3.23E-09
T	C	0.02	-0.6167899	0.09769396	1.18E-09
C	T	0.02	-0.6167899	0.09769396	1.18E-09
T	C	0.02	-0.5288421	0.08465394	1.70E-09
T	C	0.47	-0.2078399	0.03442648	5.51E-09
T	C	0.01	0.7174953	0.120985	9.15E-09
G	A	0.01	0.7174953	0.120985	9.15E-09
T	C	0.01	0.7174953	0.120985	9.15E-09
A	T	0.01	0.7174953	0.120985	9.15E-09
C	G	0.01	0.7174953	0.120985	9.15E-09
A	C	0.01	0.7174953	0.120985	9.15E-09
TCTCACACA	T	0.02	0.6077721	0.1005862	5.02E-09
G	A	0.01	1.016353	0.1554385	3.47E-10
TTC	T	0.02	0.6215935	0.1021305	3.99E-09
T	C	0.01	0.7914679	0.1279885	2.34E-09
G	A	0.02	-0.8787761	0.1844354	2.95E-06
T	TTTGTTG	0.02	-0.8787761	0.1844354	2.95E-06
C	T	0.02	-0.8787761	0.1844354	2.95E-06
C	T	0.02	-0.8787761	0.1844354	2.95E-06
A	C	0.02	-0.8787761	0.1844354	2.95E-06
C	T	0.04	-0.6638528	0.1321606	8.85E-07
A	G	0.02	-0.9596487	0.2101263	7.17E-06
A	T	0.04	-0.7307354	0.1339182	1.06E-07
G	C	0.04	-0.6584605	0.1398731	3.82E-06
A	G	0.46	-0.2464734	0.05277718	4.53E-06
T	C	0.46	-0.2403952	0.05284796	7.77E-06
T	C	0.46	-0.2426718	0.05293736	6.65E-06
A	G	0.46	-0.2400245	0.05278158	7.82E-06
A	G	0.46	-0.2453562	0.05303003	5.50E-06
G	A	0.45	-0.2430849	0.05274841	5.97E-06
G	T	0.44	-0.2446599	0.05279325	5.32E-06
G	A	0.1	-0.4070608	0.09003671	8.78E-06
G	A	0.34	-0.2768434	0.0543573	6.34E-07
C	T	0.33	-0.2750546	0.0548439	9.19E-07
CA	C	0.33	-0.283284	0.05436668	3.59E-07
G	A	0.33	-0.2754193	0.05446877	7.55E-07
G	A	0.33	-0.2741424	0.05469702	9.33E-07
A	G	0.32	-0.275823	0.05497087	9.08E-07
A	G	0.26	-0.282215	0.0609172	5.35E-06
C	T	0.03	-0.7687907	0.1668056	5.95E-06
T	TTC	0.03	0.7842648	0.1607399	1.74E-06

A	G	0.02	-0.8838776	0.1923425	6.32E-06
TACAC	T	0.09	-0.4471646	0.09460789	3.51E-06
C	T	0.01	-1.122841	0.2387667	3.91E-06
C	T	0.01	-1.045771	0.2324368	9.66E-06
G	A	0.01	-1.045771	0.2324368	9.66E-06
G	A	0.37	0.2523903	0.05462647	5.66E-06
C	T	0.37	0.2523903	0.05462647	5.66E-06
T	C	0.37	0.2481439	0.0547983	8.50E-06
CCA	C	0.36	0.2480662	0.05487061	8.78E-06
A	G	0.01	-1.428361	0.2611006	9.87E-08
T	A	0.01	-1.428361	0.2611006	9.87E-08
A	T	0.22	-0.3020302	0.06434522	4.07E-06
C	T	0.22	-0.3025431	0.06431272	3.88E-06
G	A	0.22	-0.3020302	0.06434522	4.07E-06
C	T	0.22	-0.3016266	0.06461265	4.57E-06
A	G	0.18	-0.3061608	0.06737777	7.94E-06
C	T	0.18	-0.3147631	0.0672063	4.26E-06
T	C	0.18	-0.3155498	0.06730836	4.17E-06
G	A	0.18	-0.3183041	0.06744599	3.62E-06
TTGTGTGTGTGTGTG	T	0.02	-0.9309633	0.2058663	8.74E-06
T	G	0.26	-0.2712725	0.05687985	2.89E-06
TA	T	0.12	0.3748663	0.08076269	5.15E-06
T	A	0.12	0.4528055	0.08161193	6.65E-08
G	C	0.12	0.3941757	0.0802768	1.51E-06
ATATT	A	0.08	-0.474993	0.1023194	5.13E-06
A	AT	0.01	-1.206283	0.2515534	2.56E-06
C	G	0.02	-0.9385582	0.2032252	5.71E-06
A	C	0.22	-0.3061136	0.06505137	3.86E-06
C	T	0.07	0.5043092	0.1093505	5.88E-06
A	G	0.03	-0.6969937	0.1503851	5.31E-06
T	C	0.03	0.7405173	0.1639495	8.95E-06
GT	G	0.02	0.8491307	0.1832964	5.36E-06
G	T	0.1	-0.4097166	0.08864045	5.61E-06
C	T	0.1	-0.4060775	0.08845158	6.45E-06
T	C	0.1	-0.4157282	0.08875668	4.25E-06
C	G	0.1	-0.4097166	0.08864045	5.61E-06
A	C	0.1	-0.4097166	0.08864045	5.61E-06
G	A	0.1	-0.427549	0.08879595	2.34E-06
A	G	0.1	-0.4041374	0.08969435	9.39E-06
A	C	0.1	-0.4155315	0.08892524	4.47E-06
A	G	0.1	-0.4122772	0.08887034	5.20E-06
A	C	0.1	-0.4157282	0.08875668	4.25E-06
G	T	0.1	-0.4157282	0.08875668	4.25E-06
C	T	0.1	-0.4281064	0.09018702	3.20E-06
G	A	0.09	-0.4494229	0.09654628	4.85E-06
T	G	0.42	-0.2491502	0.0538123	5.42E-06
G	A	0.41	-0.248837	0.05459255	7.46E-06
C	CA	0.42	-0.2577557	0.05414738	3.01E-06
C	T	0.48	-0.2510413	0.05307035	3.45E-06
C	T	0.48	-0.2403829	0.05341428	9.61E-06

C	T	0.48	-0.2478114	0.05333975	5.05E-06
G	A	0.48	-0.2408387	0.05336683	9.10E-06
G	A	0.47	-0.2396044	0.05329299	9.80E-06
C	T	0.48	-0.250135	0.05331877	4.11E-06
T	A	0.47	-0.2660974	0.05342497	1.08E-06
G	T	0.47	-0.2492065	0.05330825	4.43E-06
G	A	0.48	-0.266109	0.05323534	9.93E-07
A	G	0.48	-0.2503495	0.05267232	3.11E-06
G	C	0.38	-0.2466896	0.05393488	6.96E-06
T	A	0.38	-0.2453359	0.05379836	7.39E-06
A	C	0.38	-0.2422939	0.05391887	9.90E-06
T	C	0.38	-0.2491479	0.05353609	4.87E-06
A	AAAACAAAC	0.34	-0.2592146	0.05577912	5.02E-06
G	A	0.38	-0.2460799	0.05371095	6.72E-06
T	C	0.38	-0.2434895	0.05332467	7.20E-06
TA	T	0.38	-0.2397323	0.05317563	9.28E-06
G	GTA	0.01	-1.320831	0.270247	1.67E-06
C	T	0.01	-1.410749	0.2689352	3.02E-07
G	A	0.01	-1.410749	0.2689352	3.02E-07
C	T	0.38	-0.2629401	0.05510181	2.85E-06
A	C	0.39	-0.2560702	0.05535234	5.51E-06
T	G	0.39	-0.2743128	0.05545341	1.27E-06
C	T	0.38	-0.2591741	0.0550485	3.81E-06
C	T	0.37	-0.2714612	0.05498847	1.33E-06
T	C	0.39	-0.268807	0.05561676	2.15E-06
T	C	0.01	-1.216391	0.2662864	7.14E-06
C	G	0.01	-1.216391	0.2662864	7.14E-06
T	C	0.01	-1.216391	0.2662864	7.14E-06
T	C	0.01	-1.216391	0.2662864	7.14E-06
A	G	0.02	-0.8474217	0.1814082	4.50E-06
T	G	0.04	-0.6874475	0.1468844	4.33E-06
G	C	0.04	-0.6874475	0.1468844	4.33E-06
C	CT	0.03	-0.7134947	0.147992	2.28E-06
T	A	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
C	T	0.03	-0.6800077	0.1478612	6.22E-06
C	T	0.03	-0.7081062	0.1493011	3.26E-06
T	G	0.04	-0.6874475	0.1468844	4.33E-06
T	TGG	0.03	-0.7152894	0.1482869	2.25E-06
T	G	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
A	G	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.04	-0.6874475	0.1468844	4.33E-06
ATC	A	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.04	-0.6874475	0.1468844	4.33E-06
A	G	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06

T	G	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.04	-0.6874475	0.1468844	4.33E-06
T	A	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.03	-0.6939899	0.1515081	6.75E-06
A	G	0.04	-0.6874475	0.1468844	4.33E-06
C	T	0.04	-0.6874475	0.1468844	4.33E-06
T	C	0.04	-0.6874475	0.1468844	4.33E-06
G	A	0.04	-0.7102044	0.1452212	1.65E-06
C	T	0.04	-0.6720367	0.138719	2.04E-06
G	A	0.04	-0.6720367	0.138719	2.04E-06
G	A	0.04	-0.6968356	0.1399164	1.08E-06
T	C	0.04	-0.6720367	0.138719	2.04E-06
C	T	0.04	-0.6720367	0.138719	2.04E-06
C	A	0.04	-0.6763121	0.144882	4.57E-06
G	T	0.04	-0.6763121	0.144882	4.57E-06
A	G	0.04	-0.6763121	0.144882	4.57E-06
G	A	0.04	-0.6763121	0.144882	4.57E-06
T	G	0.04	-0.7122285	0.1458152	1.70E-06
A	C	0.04	-0.6759539	0.145672	5.18E-06
G	A	0.04	-0.6763121	0.144882	4.57E-06
T	G	0.04	-0.6763121	0.144882	4.57E-06
G	T	0.04	-0.7161194	0.1472837	1.88E-06
T	C	0.04	-0.7040669	0.1457016	2.16E-06
T	C	0.04	-0.7040669	0.1457016	2.16E-06
G	A	0.04	-0.7040669	0.1457016	2.16E-06
T	C	0.04	-0.7040669	0.1457016	2.16E-06
T	C	0.04	-0.7040669	0.1457016	2.16E-06
C	T	0.04	-0.5862202	0.1291085	8.06E-06
A	G	0.05	-0.6258726	0.1264499	1.25E-06
T	C	0.05	-0.5923094	0.1252374	3.46E-06
C	CTGTGTG	0.01	-1.105164	0.2346943	3.80E-06
T	C	0.03	-0.7328979	0.1585379	5.59E-06
G	C	0.02	-0.8738607	0.1805292	2.08E-06
G	T	0.13	-0.369626	0.08213938	9.63E-06
G	A	0.28	-0.2575737	0.05672518	8.05E-06
A	C	0.03	-0.7508892	0.1585288	3.35E-06
A	T	0.02	-0.8505838	0.1796456	3.38E-06
T	C	0.02	-0.9377703	0.1890355	1.19E-06
G	C	0.01	-1.210859	0.2657367	7.51E-06
G	A	0.01	-1.226969	0.2656899	5.72E-06
T	C	0.01	-1.226969	0.2656899	5.72E-06
C	T	0.01	-1.226969	0.2656899	5.72E-06
G	A	0.01	-1.226969	0.2656899	5.72E-06
G	GT	0.01	-1.391845	0.2586919	1.55E-07
T	G	0.13	0.4160321	0.07773247	1.79E-07
T	C	0.01	-0.7312066	0.1226781	7.83E-09
T	G	0.02	-0.5437891	0.09175714	9.35E-09
T	C	0.02	-0.5437891	0.09175714	9.35E-09
G	A	0.02	-0.5437891	0.09175714	9.35E-09

T	G	0.02	-0.5437891	0.09175714	9.35E-09
A	G	0.02	0.7660006	0.1277402	6.34E-09
T	TC	0.01	0.7724184	0.130568	9.77E-09
A	G	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
A	T	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
C	T	0.01	0.7724184	0.130568	9.77E-09
C	T	0.01	0.7724184	0.130568	9.77E-09
T	C	0.01	0.7724184	0.130568	9.77E-09
C	G	0.01	0.7724184	0.130568	9.77E-09
G	C	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
T	C	0.01	0.7724184	0.130568	9.77E-09
AC	A	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
A	G	0.01	0.7724184	0.130568	9.77E-09
C	T	0.01	0.7724184	0.130568	9.77E-09
C	T	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
G	T	0.01	0.7724184	0.130568	9.77E-09
G	A	0.01	0.7724184	0.130568	9.77E-09
A	G	0.01	0.7724184	0.130568	9.77E-09
A	G	0.02	0.7830721	0.1206174	4.09E-10
A	C	0.03	-0.4695253	0.07250029	4.88E-10
A	AT	0.01	-0.8201888	0.1253251	3.04E-10
G	A	0.02	-0.4969338	0.08330251	8.92E-09
T	TC	0.02	-0.4969338	0.08330251	8.92E-09
G	A	0.02	-0.4185544	0.06975588	6.88E-09
A	T	0.02	-0.4185544	0.06975588	6.88E-09
G	GT	0.01	-0.760558	0.127999	8.49E-09
G	GT	0.01	-0.8038092	0.134798	7.58E-09
C	T	0.05	-0.6090239	0.09657425	1.16E-09
G	A	0.02	-0.9823243	0.1595119	2.63E-09
T	C	0.01	-0.8563279	0.1436837	7.77E-09
GGTGTGTGTGTGT	G	0.01	-1.017823	0.1693333	5.86E-09
C	T	0.01	-0.6694662	0.1048628	1.01E-09
G	A	0.01	-0.5966251	0.09987562	9.04E-09
A	AT	0.01	-0.7734629	0.1295778	7.57E-09
T	C	0.02	0.6715764	0.1125553	7.74E-09
G	C	0.02	0.5027191	0.08295259	4.54E-09
T	C	0.03	0.4999135	0.08039013	1.91E-09
A	G	0.02	0.530758	0.08381069	1.02E-09
G	C	0.02	0.530758	0.08381069	1.02E-09
C	G	0.02	0.570902	0.08936653	7.44E-10
A	G	0.02	0.532701	0.08767266	4.17E-09
A	G	0.01	0.6228191	0.09957098	1.56E-09
G	T	0.01	0.6403479	0.1041676	2.82E-09

G	TTGTGTGTGTGTGTGT	0.05	-0.282223	0.04689837	5.87E-09
T	C	0.03	0.4840493	0.08128231	8.00E-09
A	G	0.02	0.5174531	0.08470381	3.49E-09
G	C	0.02	0.5174531	0.08470381	3.49E-09
C	G	0.02	0.5754661	0.09022817	7.89E-10
A	G	0.02	0.5373508	0.08841956	4.14E-09
T	A	0.04	0.5474483	0.08533582	6.40E-10
A	G	0.02	0.7229886	0.1210052	7.20E-09
T	C	0.01	0.6717683	0.1088599	2.48E-09
T	C	0.01	0.923903	0.1558	9.52E-09
AC	A	0.01	0.923903	0.1558	9.52E-09
G	T	0.03	0.5923354	0.09496325	1.81E-09
G	A	0.03	0.623485	0.1013295	2.74E-09
GT	G	0.13	0.2269013	0.03761732	6.23E-09
G	GT	0.13	0.2294801	0.03846752	8.83E-09
T	C	0.14	0.2142387	0.03578274	7.88E-09
G	C	0.13	0.2252853	0.03760859	7.76E-09
C	T	0.13	0.2256676	0.03792476	9.56E-09
T	C	0.13	0.2151917	0.03618883	9.77E-09
C	T	0.01	0.7003405	0.1145771	4.06E-09
T	TAC	0.01	0.9176388	0.1485188	2.77E-09
C	T	0.25	0.137422	0.03040802	8.82E-06
A	C	0.28	-0.1236243	0.02677934	5.74E-06
T	C	0.24	0.1359144	0.03024087	9.84E-06
T	C	0.07	-0.2170692	0.04813161	9.19E-06
C	CT	0.02	0.3871841	0.08299753	4.62E-06
CT	C	0.1	-0.1958473	0.04303818	7.69E-06
T	G	0.02	0.4337422	0.09530134	7.66E-06
A	C	0.07	-0.2284166	0.0497607	6.45E-06
G	A	0.06	0.3069925	0.05749715	1.89E-07
C	A	0.06	0.2803729	0.05488742	5.87E-07
G	C	0.07	0.272357	0.05087307	1.76E-07
AC	A	0.07	0.272357	0.05087307	1.76E-07
G	A	0.03	0.3599513	0.0786057	6.77E-06
A	T	0.18	-0.1518362	0.03362933	8.99E-06
C	T	0.17	-0.1541632	0.03388527	7.72E-06
G	A	0.17	-0.1541632	0.03388527	7.72E-06
C	T	0.17	-0.1528611	0.03385263	8.97E-06
G	T	0.18	-0.1513258	0.03324393	7.64E-06
G	C	0.21	-0.1583428	0.03144461	8.30E-07
G	A	0.21	-0.1536206	0.03145123	1.69E-06
T	G	0.22	-0.1424304	0.03088558	5.87E-06
A	T	0.22	-0.1424304	0.03088558	5.87E-06
G	A	0.22	-0.1407406	0.03090638	7.58E-06
A	C	0.22	-0.1402204	0.03101691	8.77E-06
A	T	0.22	-0.1424304	0.03088558	5.87E-06
C	G	0.22	-0.1424304	0.03088558	5.87E-06
G	A	0.22	-0.1444239	0.03086474	4.33E-06
A	G	0.22	-0.1424304	0.03088558	5.87E-06
G	A	0.22	-0.1424304	0.03088558	5.87E-06

A	G	0.22	-0.1424304	0.03088558	5.87E-06
A	G	0.22	-0.1424304	0.03088558	5.87E-06
C	T	0.22	-0.1424304	0.03088558	5.87E-06
G	A	0.22	-0.1439154	0.03086935	4.68E-06
G	T	0.22	-0.1463595	0.03085884	3.25E-06
T	C	0.22	-0.1439154	0.03086935	4.68E-06
G	A	0.22	-0.1447229	0.03061693	3.49E-06
G	A	0.22	-0.1437711	0.0306121	4.01E-06
T	G	0.22	-0.1437711	0.0306121	4.01E-06
G	A	0.18	-0.1456581	0.03229767	9.20E-06
T	C	0.18	-0.1456581	0.03229767	9.20E-06
T	C	0.18	-0.1456581	0.03229767	9.20E-06
C	T	0.01	0.5490036	0.1196236	6.47E-06
G	C	0.02	0.4580679	0.09840186	4.83E-06
T	C	0.31	-0.1256517	0.02730331	6.12E-06
T	G	0.47	-0.1160716	0.02442441	3.11E-06
T	A	0.38	-0.1147875	0.02475514	5.24E-06
TACCCA	T	0.37	-0.1136263	0.0251541	8.90E-06
G	A	0.45	-0.1239284	0.02392186	4.13E-07
A	G	0.47	-0.1208336	0.02550427	3.32E-06
G	A	0.03	0.361727	0.0804922	9.86E-06
G	A	0.09	0.2299119	0.04641702	1.23E-06
G	A	0.28	-0.130156	0.02658458	1.60E-06
A	G	0.05	0.2931637	0.06115368	2.57E-06
A	AGTTTT	0.02	0.3796866	0.08309254	7.07E-06
C	T	0.08	0.2264108	0.04779612	3.33E-06
T	C	0.13	0.1835328	0.03934326	4.62E-06
C	A	0.13	0.1806361	0.03957406	7.23E-06
G	C	0.13	0.1853842	0.0393505	3.75E-06
G	A	0.13	0.1849335	0.03903434	3.32E-06
A	T	0.13	0.1837305	0.03935069	4.53E-06
C	T	0.13	0.1837305	0.03935069	4.53E-06
T	C	0.13	0.1837305	0.03935069	4.53E-06
C	T	0.13	0.1926342	0.03947077	1.72E-06
T	A	0.12	0.1953182	0.04103673	3.01E-06
G	A	0.13	0.1930476	0.03959134	1.76E-06
G	A	0.13	0.1930476	0.03959134	1.76E-06
C	G	0.13	0.1930476	0.03959134	1.76E-06
G	A	0.06	0.2699545	0.05547616	1.84E-06
C	T	0.03	-0.3717447	0.06263782	8.77E-09
T	C	0.01	-0.6048171	0.1011607	6.92E-09
C	T	0.01	-0.6048171	0.1011607	6.92E-09
A	G	0.06	-0.3054819	0.05071825	5.61E-09
A	G	0.01	-0.5208463	0.0845279	2.56E-09
T	G	0.01	1.000428	0.164203	4.20E-09
CTGTGTGTG	C	0.01	-0.6546515	0.1098648	7.70E-09
C	T	0.01	0.7923238	0.1319125	5.97E-09
T	G	0.01	0.7923238	0.1319125	5.97E-09
T	TC	0.01	0.6858746	0.11383	5.39E-09
A	G	0.01	0.6858746	0.11383	5.39E-09

G	A	0.01	0.6858746	0.11383	5.39E-09
A	T	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
C	T	0.01	0.6858746	0.11383	5.39E-09
C	T	0.01	0.6858746	0.11383	5.39E-09
T	C	0.01	0.6858746	0.11383	5.39E-09
C	G	0.01	0.6858746	0.11383	5.39E-09
G	C	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
T	C	0.01	0.6858746	0.11383	5.39E-09
AC	A	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
A	G	0.01	0.6858746	0.11383	5.39E-09
C	T	0.01	0.6858746	0.11383	5.39E-09
C	T	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
G	T	0.01	0.6858746	0.11383	5.39E-09
G	A	0.01	0.6858746	0.11383	5.39E-09
A	G	0.01	0.6858746	0.11383	5.39E-09
A	G	0.02	0.6831422	0.1052553	4.10E-10
CTGTGTGTG	C	0.01	-0.6306469	0.1002484	1.27E-09
G	A	0.02	-0.6142391	0.1017521	5.42E-09
G	A	0.03	-0.5586784	0.09416687	9.44E-09
TTTCTTTC	T	0.02	-0.5599514	0.09064563	2.36E-09
G	GGAAA	0.01	-0.5838291	0.09277639	1.24E-09
C	T	0.05	-0.5708776	0.09104502	1.41E-09
G	ATCTATCTATCTATCT,	0.01	-0.9209557	0.1543802	8.61E-09
G	GAAGA	0.08	-0.4666851	0.07787381	8.30E-09
T	G	0.02	0.577847	0.09408935	3.00E-09
G	GGAAA	0.01	-0.6810872	0.1139777	7.53E-09
C	T	0.01	0.6649006	0.110107	5.96E-09
A	C	0.01	0.6649006	0.110107	5.96E-09
GCA	G	0.02	0.5278031	0.08859558	9.23E-09
G	A	0.45	0.2525222	0.05531229	7.45E-06
T	C	0.43	0.256202	0.05490405	4.76E-06
A	C	0.46	0.2589629	0.0548817	3.77E-06
T	C	0.46	0.2571048	0.05528904	5.12E-06
T	C	0.39	0.2539902	0.05599543	8.47E-06
C	G	0.39	0.270878	0.05586242	2.08E-06
C	T	0.47	0.2516667	0.05298088	3.27E-06
C	T	0.48	0.2594178	0.05291481	1.63E-06
C	T	0.39	0.261973	0.05588155	4.32E-06
A	G	0.38	0.2670042	0.05584758	2.84E-06
A	C	0.49	0.2376408	0.0524702	8.73E-06
T	C	0.49	0.2442423	0.05252291	5.12E-06
G	A	0.48	0.2520591	0.05234961	2.43E-06
C	T	0.5	-0.2598628	0.05192836	1.01E-06
C	G	0.49	0.2468735	0.05229591	3.73E-06

T	C	0.49	0.2375953	0.05235879	8.40E-06
C	T	0.45	0.2482096	0.05052814	1.55E-06
A	C	0.5	0.2424607	0.05260242	6.14E-06
T	C	0.49	0.2413417	0.05280114	7.27E-06
A	C	0.49	0.2455875	0.05290547	5.31E-06
G	A	0.5	0.2456684	0.05272295	4.91E-06
C	T	0.49	0.2514579	0.05277307	3.06E-06
A	G	0.49	0.2526255	0.05276118	2.75E-06
G	A	0.49	0.2438538	0.05301529	6.40E-06
G	A	0.36	0.307963	0.05713097	1.57E-07
C	CTT	0.18	-0.3153933	0.0698501	9.27E-06
C	CTG	0.08	0.4789729	0.1017011	3.92E-06
G	A	0.01	-1.266998	0.2658038	3.03E-06
C	T	0.01	-1.266998	0.2658038	3.03E-06
C	T	0.01	-1.266998	0.2658038	3.03E-06
C	G	0.01	-1.266998	0.2658038	3.03E-06
G	C	0.01	-1.266998	0.2658038	3.03E-06
T	A	0.01	-1.266998	0.2658038	3.03E-06
G	A	0.01	-1.266998	0.2658038	3.03E-06
T	C	0.01	-1.266998	0.2658038	3.03E-06
A	G	0.04	-0.5956305	0.1301832	7.13E-06
G	A	0.39	-0.2605776	0.05527546	3.84E-06
G	A	0.4	-0.2573036	0.05516398	4.81E-06
A	G	0.4	-0.2617226	0.05523688	3.45E-06
C	T	0.02	0.9537656	0.2071387	6.27E-06
TAG	T	0.02	0.8949198	0.1946953	6.49E-06
C	G	0.02	1.068024	0.2299792	5.26E-06
G	A	0.06	0.5712197	0.1211855	3.85E-06
G	A	0.01	1.257003	0.2747415	7.13E-06
T	C	0.48	-0.2481977	0.05375875	5.93E-06
G	T	0.2	0.3088174	0.06401494	2.33E-06
T	C	0.02	1.051976	0.2088129	8.64E-07
GC	G	0.01	1.204057	0.2492098	2.26E-06
C	G	0.02	0.8930979	0.1935206	5.98E-06
G	A	0.02	0.9509609	0.1906718	1.10E-06
T	G	0.25	0.2874506	0.0636544	9.25E-06
G	A	0.25	0.2882972	0.06306062	7.24E-06
G	GC	0.23	-0.3404449	0.07015653	2.05E-06
C	T	0.08	-0.4441438	0.09870106	9.92E-06
C	T	0.08	-0.4620571	0.09775326	3.63E-06
G	A	0.08	-0.4489881	0.09620559	4.75E-06
G	A	0.32	0.2668169	0.05772034	5.79E-06
C	T	0.21	-0.3234429	0.06528869	1.28E-06
G	T	0.21	-0.3092076	0.0651644	3.34E-06
G	C	0.21	-0.3036166	0.06518346	4.95E-06
A	T	0.21	-0.3118551	0.0650871	2.71E-06
G	A	0.22	-0.3008432	0.06505937	5.75E-06
G	A	0.36	0.1614237	0.02707517	8.35E-09
G	A	0.36	0.1977055	0.03258762	4.77E-09
C	CA	0.02	0.6905081	0.1147421	6.85E-09

C	T	0.06	0.4003583	0.06704426	8.64E-09
G	A	0.36	0.1867247	0.03000258	2.06E-09
G	A	0.36	0.195834	0.03228922	4.86E-09
GCAAA	G	0.02	-0.9221671	0.1299478	1.80E-11
C	T	0.21	-0.1990538	0.03173999	1.58E-09
G	T	0.21	-0.1932845	0.03168376	3.99E-09
G	C	0.21	-0.1910358	0.03169354	5.90E-09
A	T	0.21	-0.1955059	0.03163426	2.59E-09
G	A	0.22	-0.1958068	0.03157701	2.32E-09
C	T	0.3	-0.1677162	0.02784417	6.03E-09
C	T	0.21	-0.1900831	0.03155544	6.02E-09
G	A	0.36	0.1709148	0.0283513	5.88E-09
G	GA	0.02	-0.8738313	0.1457391	6.52E-09
A	G	0.02	-0.8738313	0.1457391	6.52E-09
C	T	0.02	-0.8738313	0.1457391	6.52E-09
C	G	0.02	-0.8738313	0.1457391	6.52E-09
G	A	0.02	-0.8738313	0.1457391	6.52E-09
T	G	0.02	-0.8738313	0.1457391	6.52E-09
T	C	0.02	-0.8738313	0.1457391	6.52E-09
G	C	0.02	-0.8738313	0.1457391	6.52E-09
G	A	0.02	-0.8738313	0.1457391	6.52E-09
A	G	0.02	-0.8738313	0.1457391	6.52E-09
T	C	0.02	-0.9219574	0.1447527	8.43E-10
T	TAC	0.01	0.8613281	0.1399547	3.54E-09
T	C	0.04	-0.7204737	0.1564123	6.30E-06
C	T	0.04	-0.6319585	0.1397031	9.05E-06
G	C	0.04	-0.6319585	0.1397031	9.05E-06
C	A	0.04	-0.6319585	0.1397031	9.05E-06
C	A	0.04	-0.6319585	0.1397031	9.05E-06
G	A	0.04	-0.6319585	0.1397031	9.05E-06
G	T	0.03	-0.8361086	0.1798214	5.20E-06
C	T	0.03	-0.808067	0.1795406	1.00E-05
A	T	0.03	-0.808067	0.1795406	1.00E-05
A	G	0.02	1.010628	0.2195889	6.41E-06
G	T	0.02	1.073039	0.2250634	3.06E-06
C	T	0.44	0.2636559	0.05851947	9.79E-06
C	A	0.36	-0.2722193	0.05883969	5.76E-06
G	C	0.38	-0.2732755	0.05841921	4.59E-06
C	T	0.02	1.024951	0.2181898	4.20E-06
A	G	0.39	-0.269411	0.05653965	3.10E-06
C	T	0.4	-0.2675818	0.05607811	3.01E-06
T	C	0.39	-0.271464	0.05631719	2.41E-06
G	GA	0.32	-0.2740515	0.05869052	4.76E-06
A	T	0.12	0.3959844	0.08671043	7.50E-06
C	CGT	0.15	-0.4308405	0.0860632	1.02E-06
C	T	0.02	-0.9640288	0.2123022	8.40E-06
C	CATTT	0.06	0.5401262	0.1198911	9.81E-06
A	G	0.18	0.3417906	0.07545087	8.80E-06
T	C	0.18	0.3413501	0.07545027	9.03E-06
G	A	0.18	0.3413501	0.07545027	9.03E-06

G	T	0.18	0.3413501	0.07545027	9.03E-06
T	G	0.18	0.3413501	0.07545027	9.03E-06
C	A	0.18	0.3413501	0.07545027	9.03E-06
C	T	0.19	0.3422531	0.07527758	8.19E-06
G	A	0.19	0.3535974	0.07580169	4.86E-06
G	A	0.19	0.3674696	0.0739445	1.21E-06
A	G	0.18	0.3507847	0.07533444	5.05E-06
C	G	0.18	0.3522772	0.07588736	5.38E-06
A	G	0.04	0.7216051	0.1540607	4.46E-06
AT	A	0.01	-1.197448	0.2541165	3.93E-06
A	C	0.04	-0.6817521	0.1468167	5.34E-06
T	C	0.12	-0.4244315	0.08907908	3.11E-06
C	G	0.09	-0.4523284	0.1003015	9.61E-06
G	A	0.1	-0.4546849	0.09631541	3.78E-06
T	C	0.1	-0.4608837	0.0960264	2.65E-06
G	A	0.1	-0.4470781	0.09435703	3.50E-06
G	A	0.32	0.2703774	0.05817359	5.24E-06
T	TC	0.3	0.2763253	0.06094147	8.64E-06
A	G	0.3	0.2783034	0.06138501	8.66E-06
A	C	0.3	0.2783034	0.06138501	8.66E-06
G	A	0.3	0.2866177	0.06104848	4.25E-06
G	T	0.34	0.3165464	0.05987127	2.67E-07
C	T	0.29	0.2872617	0.06296265	7.64E-06
TAC	T	0.22	-0.3277405	0.07157733	7.11E-06
T	A	0.09	0.4565651	0.1001118	7.70E-06
C	G	0.2	0.3136508	0.06860885	7.34E-06
G	GTATTTATT	0.01	-1.128073	0.2489767	8.77E-06
T	C	0.06	-0.5221843	0.1119168	4.84E-06
C	A	0.02	-0.8894106	0.1813275	1.64E-06
G	A	0.04	-0.7468847	0.1634655	7.42E-06
T	C	0.01	-1.132689	0.2471324	6.97E-06
C	A	0.01	-1.132689	0.2471324	6.97E-06
G	GA	0.15	-0.3723234	0.08018492	5.35E-06
G	A	0.13	-0.3801453	0.0830669	7.19E-06
T	A	0.08	-0.4821773	0.1059488	8.03E-06
AG	A	0.04	0.7966385	0.1528557	3.85E-07
G	A	0.03	0.9047455	0.176721	5.98E-07
A	G	0.02	-1.045811	0.2182646	2.75E-06
C	T	0.02	-1.013306	0.2219834	7.56E-06
C	A	0.05	0.6822079	0.1409219	2.19E-06
G	A	0.04	0.6851148	0.1475289	5.33E-06
A	T	0.13	-0.4078548	0.08942989	7.70E-06
C	T	0.46	-0.2554505	0.0567463	9.96E-06
C	T	0.46	-0.2585375	0.05674768	7.86E-06
T	C	0.46	-0.2584279	0.05642152	7.06E-06
C	T	0.42	-0.2694135	0.05611525	2.63E-06
A	T	0.02	-0.9405973	0.1889515	1.17E-06
C	A	0.05	-0.6162527	0.1343998	6.91E-06
C	G	0.05	-0.6331065	0.136222	5.25E-06
T	C	0.05	-0.6386222	0.1410889	8.94E-06

C	CT	0.02	-0.965772	0.2078162	5.26E-06
G	A	0.01	-1.328044	0.282938	4.27E-06
A	G	0.34	-0.302347	0.05930106	6.61E-07
C	G	0.33	-0.2982688	0.0596331	1.04E-06
A	G	0.1	0.4475906	0.0964546	5.42E-06
A	G	0.03	0.6956024	0.152224	7.40E-06
T	A	0.01	-1.352422	0.2723408	1.23E-06
G	A	0.03	-0.8731179	0.1855232	4.04E-06
T	A	0.08	-0.3468883	0.05798517	7.79E-09
A	G	0.01	-0.9956597	0.166716	8.23E-09
CTGTGTGTGTGTGTG	C	0.23	-0.3359022	0.05537983	5.00E-09
T	TGATGGATG	0.02	0.492884	0.08095551	4.42E-09
G	A	0.02	0.658564	0.1106517	9.14E-09
C	T	0.02	-0.5374287	0.08919091	6.20E-09
CCT	C	0.02	-0.5379503	0.0886796	5.00E-09
CTT	C	0.06	-0.268873	0.04517605	9.18E-09
T	C	0.06	-0.2686538	0.0449003	7.76E-09
C	T	0.06	-0.2757076	0.04499201	3.59E-09
T	G	0.06	-0.2686538	0.0449003	7.76E-09
T	C	0.06	-0.2686538	0.0449003	7.76E-09
T	A	0.06	-0.2840397	0.04576673	2.35E-09
C	T	0.01	-0.7775658	0.1197745	4.94E-10
G	A	0.21	-0.197136	0.03290285	7.41E-09
C	T	0.15	0.245055	0.04052238	5.57E-09
G	A	0.19	0.1931033	0.03193858	5.61E-09
G	A	0.01	-0.6881054	0.1157567	9.52E-09
A	G	0.01	-0.7205001	0.1208029	8.60E-09
T	C	0.01	-0.9210205	0.1513065	5.02E-09
GGTGTGTGTGTGT	G	0.01	-1.164061	0.1868688	2.07E-09
A	G	0.01	-0.8793108	0.1431761	3.60E-09
AC	A	0.03	0.6333177	0.1001529	1.30E-09
A	G	0.2	0.1831949	0.03062151	8.02E-09
C	T	0.37	-0.2045972	0.03355217	4.20E-09
TC	T	0.37	-0.2020207	0.03348698	5.95E-09
C	CAAAATAAAAATAAAA	0.01	-1.160151	0.244532	3.30E-06
C	T	0.19	-0.3347789	0.06925986	2.20E-06
C	T	0.21	-0.3268675	0.06680631	1.67E-06
G	A	0.24	-0.2997884	0.06479825	5.61E-06
C	G	0.03	0.7164233	0.155218	5.89E-06
C	A	0.01	-1.186911	0.2578333	6.21E-06
A	G	0.01	-1.344906	0.2732462	1.46E-06
G	A	0.01	-1.344906	0.2732462	1.46E-06
T	G	0.01	-1.231758	0.2701852	7.56E-06
C	T	0.09	-0.4512166	0.0965345	4.53E-06
C	A	0.09	-0.4527003	0.09516615	3.12E-06
C	T	0.09	-0.4621803	0.09668706	2.81E-06
C	T	0.09	-0.4451162	0.09693367	6.54E-06
C	A	0.28	0.2953196	0.06299231	4.26E-06
A	T	0.09	-0.4550723	0.09676555	3.98E-06
T	C	0.09	-0.4458154	0.09473578	3.93E-06

A	C	0.09	-0.4668571	0.09630014	2.06E-06
C	G	0.09	-0.4668571	0.09630014	2.06E-06
T	C	0.09	-0.483132	0.09455291	6.02E-07
T	C	0.09	-0.4668571	0.09630014	2.06E-06
G	C	0.09	-0.4699843	0.09502995	1.31E-06
T	A	0.09	-0.4668571	0.09630014	2.06E-06
G	A	0.09	-0.4362492	0.0951119	6.69E-06
G	C	0.09	-0.4668571	0.09630014	2.06E-06
A	G	0.12	-0.3704104	0.08181369	8.68E-06
A	G	0.12	-0.3745062	0.08128813	6.11E-06
A	G	0.01	-1.161992	0.2519693	5.99E-06
CGT	C	0.01	-1.509791	0.2574378	1.35E-08
A	G	0.02	-0.9570742	0.1984269	2.30E-06
A	AAAGG TTC	0.37	0.2453285	0.05222817	4.09E-06
T	TTG	0.01	-1.182154	0.253201	4.64E-06
C	T	0.15	-0.3602685	0.07892782	7.38E-06
G	GCACACACACACA	0.02	-0.9381219	0.2006448	4.50E-06
A	G	0.17	0.3351937	0.06992329	2.64E-06
A	G	0.02	-0.9401156	0.2057827	7.25E-06
G	A	0.06	0.5445837	0.1112712	1.66E-06
C	T	0.06	0.5445837	0.1112712	1.66E-06
A	G	0.06	0.5393363	0.112697	2.74E-06
T	C	0.06	0.5397563	0.1107695	1.83E-06
C	T	0.06	0.5397563	0.1107695	1.83E-06
T	A	0.06	0.5397563	0.1107695	1.83E-06
A	G	0.01	-1.247347	0.2774322	9.96E-06
C	CA	0.03	-0.7283676	0.1594543	7.27E-06
T	C	0.01	-1.171857	0.2407795	1.88E-06
C	T	0.02	-0.9636168	0.1966992	1.62E-06
A	G	0.41	-0.2694826	0.05384519	9.90E-07
C	G	0.03	-0.7370755	0.1605358	6.55E-06
A	C	0.01	-1.175651	0.2595637	8.61E-06
T	C	0.07	0.4859147	0.1063059	7.17E-06
C	T	0.03	-0.7095481	0.1541684	6.24E-06
G	A	0.47	-0.2546875	0.05607924	8.16E-06
C	G	0.46	-0.2576698	0.05603337	6.35E-06
T	G	0.47	-0.2561162	0.05593798	6.93E-06
C	T	0.46	-0.2606913	0.05586151	4.69E-06
C	CAGAA	0.12	-0.4030623	0.08554679	3.83E-06
C	A	0.48	-0.2464496	0.05356439	6.28E-06
T	C	0.38	0.2686435	0.05561956	2.23E-06
AC	A	0.43	0.2485803	0.05290499	4.06E-06
A	G	0.39	0.2716911	0.05617879	2.17E-06
C	T	0.3	0.2669201	0.05738431	5.02E-06
C	T	0.42	0.2563115	0.0532706	2.43E-06
AG	A	0.42	0.2751427	0.05334414	4.77E-07
T	A	0.46	0.2502662	0.05382483	5.06E-06
C	A	0.44	0.2546875	0.05318974	2.70E-06
A	G	0.46	0.2501947	0.05371463	4.88E-06
GGAAA	G	0.36	0.2510864	0.05467833	6.53E-06

A	G	0.44	0.2493495	0.05345554	4.73E-06
C	G	0.44	0.2622394	0.05316869	1.39E-06
A	G	0.46	0.2536346	0.05372662	3.67E-06
T	C	0.46	0.2635843	0.05486039	2.51E-06
T	G	0.47	0.266603	0.0555101	2.53E-06
A	ATC	0.48	0.2535204	0.05503029	6.12E-06
A	G	0.47	0.2569146	0.05571921	6.01E-06
GGAAT	G	0.41	0.3233696	0.05567443	1.81E-08
G	A	0.41	0.3030493	0.05583412	1.27E-07
G	A	0.41	0.297066	0.0558334	2.16E-07
C	T	0.46	0.2539207	0.05430529	4.50E-06
CT	C	0.38	0.292555	0.05708839	5.60E-07
G	C	0.42	0.2626345	0.05746809	7.20E-06
A	T	0.39	0.2654033	0.05837575	7.99E-06
G	C	0.39	0.2913744	0.05714606	6.34E-07
T	TA	0.48	0.2519752	0.05500922	6.87E-06
G	GTTTATA	0.45	0.2730619	0.05492032	1.16E-06
G	A	0.43	0.2640527	0.055603	3.24E-06
C	A	0.44	0.2821991	0.05507451	5.62E-07
TAA	T	0.31	0.295923	0.05863146	8.10E-07
A	G	0.15	-0.3645195	0.07832485	4.96E-06
A	G	0.11	-0.4073128	0.09029996	9.34E-06
CGT	C	0.04	-0.6325639	0.1393819	8.28E-06
CA	C	0.02	-0.7780918	0.1610225	2.21E-06
C	T	0.04	-0.6172598	0.1355856	7.78E-06
G	A	0.05	-0.5349274	0.1152269	5.22E-06
T	G	0.08	-0.4401213	0.09520105	5.69E-06
G	A	0.05	-0.6524017	0.1317318	1.27E-06
A	G	0.04	-0.6167143	0.1349456	7.20E-06
A	C	0.2	-0.3236308	0.06594579	1.56E-06
C	G	0.11	-0.4081115	0.08670796	3.91E-06
C	T	0.03	-0.8035829	0.1700963	3.62E-06
C	T	0.03	-0.7596693	0.1610561	3.74E-06
C	T	0.03	-0.7508447	0.1632978	6.36E-06
C	T	0.03	-0.7508447	0.1632978	6.36E-06
T	C	0.03	-0.7508447	0.1632978	6.36E-06
A	AACACAC	0.09	0.4584709	0.0964433	3.16E-06
A	G	0.03	-0.7392071	0.1622467	7.66E-06
G	A	0.01	-1.397836	0.2579579	1.33E-07
T	C	0.3	0.2838872	0.06137511	5.63E-06
T	C	0.3	0.2949623	0.06189748	3.00E-06
C	A	0.3	0.2847558	0.06093776	4.56E-06
C	T	0.01	-1.109737	0.2457974	9.17E-06
CGT	C	0.01	-0.7821083	0.1256924	1.96E-09
CGT	C	0.01	-0.6336503	0.1016855	1.87E-09
CGT	C	0.01	-0.6467211	0.1090066	9.36E-09
CGT	C	0.01	-0.6959915	0.1080317	5.79E-10
CGT	C	0.01	-0.8460031	0.1378482	3.12E-09
CGT	C	0.01	-1.019224	0.1567957	4.18E-10
CGT	C	0.01	-0.8848813	0.1340251	2.35E-10

CGT	C	0.01	-0.8694723	0.1454209	7.32E-09
GGAAT	G	0.41	0.1380142	0.02278833	4.84E-09
CGT	C	0.01	-0.6405833	0.1021052	1.48E-09
CGT	C	0.01	-0.7113181	0.1069004	1.75E-10
CGT	C	0.01	-0.5914768	0.09404778	1.36E-09
GGAAT	G	0.41	0.1298845	0.02144049	4.80E-09
CGT	C	0.01	-0.8373793	0.1365189	3.22E-09
CGT	C	0.01	-0.7931192	0.1218865	4.03E-10
CGT	C	0.01	-0.757291	0.1189654	9.55E-10
C	T	0.2	-0.194094	0.03255522	8.48E-09
A	C	0.2	-0.1977719	0.03204479	2.76E-09
C	T	0.2	-0.196054	0.03217098	4.19E-09
C	T	0.19	-0.2010477	0.03326529	5.49E-09
A	C	0.19	-0.2136454	0.03318477	6.40E-10
C	G	0.26	-0.1718289	0.02896913	9.97E-09
G	T	0.25	-0.1799835	0.02919257	2.85E-09
G	T	0.25	-0.1810163	0.02920571	2.39E-09
T	A	0.26	-0.175456	0.02914915	6.26E-09
CT	C	0.25	-0.1797964	0.02922602	3.07E-09
G	A	0.25	-0.1800782	0.029225	2.91E-09
T	C	0.26	-0.1755533	0.02853609	3.07E-09
T	C	0.26	-0.1733107	0.02883139	6.53E-09
C	G	0.26	-0.1718678	0.0288331	8.53E-09
C	T	0.01	1.106839	0.1732298	7.79E-10
T	G	0.01	1.106839	0.1732298	7.79E-10
T	TC	0.01	0.920582	0.1492745	2.65E-09
A	G	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
A	T	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
C	T	0.01	0.920582	0.1492745	2.65E-09
C	T	0.01	0.920582	0.1492745	2.65E-09
T	C	0.01	0.920582	0.1492745	2.65E-09
C	G	0.01	0.920582	0.1492745	2.65E-09
G	C	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
T	C	0.01	0.920582	0.1492745	2.65E-09
AC	A	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
A	G	0.01	0.920582	0.1492745	2.65E-09
C	T	0.01	0.920582	0.1492745	2.65E-09
C	T	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
G	T	0.01	0.920582	0.1492745	2.65E-09
G	A	0.01	0.920582	0.1492745	2.65E-09
A	G	0.01	0.920582	0.1492745	2.65E-09
A	G	0.02	0.8866872	0.1381103	6.56E-10
CGT	C	0.01	-0.8398127	0.1340056	1.56E-09

A	T	0.02	-0.6984187	0.1140988	3.42E-09
T	C	0.02	-0.9202842	0.1400412	3.48E-10
CGT	C	0.01	-0.8830644	0.1475597	7.11E-09
GGAAT	G	0.41	0.1923299	0.03221268	7.66E-09
CGT	C	0.01	-0.703632	0.1165258	5.33E-09
CGT	C	0.01	-0.7830097	0.1289473	4.49E-09
A	T	0.01	-0.7171863	0.112874	9.51E-10
A	G	0.41	-0.2112248	0.03533503	7.43E-09
CGT	C	0.01	-0.7105729	0.1116528	9.25E-10
CGT	C	0.04	-0.3432467	0.05705301	6.03E-09
CGT	C	0.01	-0.9363284	0.1568578	9.02E-09
A	G	0.02	0.5755054	0.0908876	1.08E-09
CGT	C	0.01	-0.7618325	0.1286623	9.99E-09
A	AT	0.01	-0.9844744	0.1596929	2.79E-09
T	C	0.02	-0.635517	0.1059881	6.92E-09
A	AACACAC	0.09	0.2342511	0.03895603	6.55E-09
CGT	C	0.01	-1.121113	0.1823351	2.96E-09
C	T	0.01	1.154258	0.1846745	2.12E-09
T	G	0.01	1.154258	0.1846745	2.12E-09
T	TC	0.02	0.992732	0.1615313	3.71E-09
A	G	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
A	T	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
C	T	0.02	0.992732	0.1615313	3.71E-09
C	T	0.02	0.992732	0.1615313	3.71E-09
T	C	0.02	0.992732	0.1615313	3.71E-09
C	G	0.02	0.992732	0.1615313	3.71E-09
G	C	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
T	C	0.02	0.992732	0.1615313	3.71E-09
AC	A	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
A	G	0.02	0.992732	0.1615313	3.71E-09
C	T	0.02	0.992732	0.1615313	3.71E-09
C	T	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
G	A	0.01	0.9928851	0.1660873	8.95E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
G	T	0.02	0.992732	0.1615313	3.71E-09
G	A	0.02	0.992732	0.1615313	3.71E-09
A	G	0.02	0.992732	0.1615313	3.71E-09
A	G	0.02	0.9607374	0.1483403	6.23E-10
A	T	0.07	0.4457346	0.06989207	1.07E-09
G	C	0.07	0.4457346	0.06989207	1.07E-09
C	T	0.07	0.4443951	0.0702264	1.39E-09
C	T	0.07	0.4418359	0.07035031	1.80E-09
T	C	0.07	0.4418359	0.07035031	1.80E-09
AAC	A	0.01	1.295076	0.2586098	9.49E-07

C	T	0.39	0.2400425	0.05302054	8.52E-06
G	C	0.38	-0.2497363	0.05324937	4.13E-06
A	G	0.38	-0.2497363	0.05324937	4.13E-06
C	T	0.39	0.2469928	0.05310459	4.92E-06
C	A	0.32	-0.2944617	0.05308988	6.69E-08
A	G	0.03	0.6512231	0.1442337	9.00E-06
G	A	0.03	0.6836439	0.1465957	4.65E-06
T	C	0.48	0.2655341	0.05265703	8.04E-07
T	C	0.44	0.2395117	0.05277198	8.11E-06
G	C	0.49	0.2514235	0.05273654	2.90E-06
C	T	0.49	0.2467895	0.05275247	4.35E-06
C	T	0.48	0.251003	0.05251634	2.75E-06
G	A	0.48	0.2712389	0.0524874	4.41E-07
T	C	0.49	0.250083	0.05252655	2.99E-06
T	C	0.49	-0.2558281	0.05238867	1.70E-06
C	A	0.47	0.2419432	0.05253852	6.04E-06
A	C	0.46	0.2476824	0.052706	3.96E-06
ˆAATAAATTCGTAATAˆ	A	0.44	0.2415395	0.05184624	4.75E-06
G	A	0.48	0.2412923	0.05269423	6.78E-06
T	C	0.49	-0.2468233	0.05211739	3.35E-06
T	C	0.49	-0.2395024	0.05216483	6.43E-06
C	T	0.09	0.4245004	0.09233455	6.25E-06
A	T	0.03	0.7105122	0.1521856	4.55E-06
AT	A	0.19	0.3217346	0.07124571	8.97E-06
A	G	0.04	0.6025743	0.1305026	5.72E-06
C	T	0.08	0.4602151	0.09927686	5.27E-06
G	C	0.08	0.4514059	0.1000693	9.16E-06
C	A	0.08	0.4602151	0.09927686	5.27E-06
G	A	0.08	0.4602151	0.09927686	5.27E-06
T	C	0.08	0.4514059	0.1000693	9.16E-06
G	A	0.08	0.4514059	0.1000693	9.16E-06
C	T	0.08	0.4514059	0.1000693	9.16E-06
A	G	0.08	0.4602151	0.09927686	5.27E-06
G	A	0.08	0.4602151	0.09927686	5.27E-06
A	G	0.08	0.4514059	0.1000693	9.16E-06
T	A	0.08	0.4514059	0.1000693	9.16E-06
T	C	0.08	0.4514059	0.1000693	9.16E-06
G	A	0.08	0.4514059	0.1000693	9.16E-06
C	A	0.08	0.4514059	0.1000693	9.16E-06
AG	A	0.08	0.4514059	0.1000693	9.16E-06
T	C	0.08	0.4514059	0.1000693	9.16E-06
C	A	0.08	0.4602151	0.09927686	5.27E-06
T	C	0.08	0.4694275	0.09957326	3.70E-06
C	T	0.08	0.4607047	0.1003759	6.47E-06
G	C	0.08	0.4607047	0.1003759	6.47E-06
T	A	0.08	0.4607047	0.1003759	6.47E-06
C	T	0.08	0.4602151	0.09927686	5.27E-06
G	GA	0.08	0.4779608	0.1008622	3.31E-06
T	G	0.08	0.4514059	0.1000693	9.16E-06
T	A	0.08	0.4514059	0.1000693	9.16E-06

C	T	0.08	0.4602151	0.09927686	5.27E-06
A	C	0.08	0.4602151	0.09927686	5.27E-06
T	A	0.08	0.4514059	0.1000693	9.16E-06
C	T	0.09	0.4218423	0.09187287	6.42E-06
C	G	0.09	0.4218423	0.09187287	6.42E-06
A	G	0.09	0.4218423	0.09187287	6.42E-06
G	T	0.09	0.4244817	0.09079046	4.41E-06
T	G	0.09	0.4218423	0.09187287	6.42E-06
C	G	0.08	0.4491455	0.09540479	3.81E-06
T	A	0.09	0.4218423	0.09187287	6.42E-06
AG	A	0.09	0.4187065	0.09235593	8.29E-06
C	T	0.08	0.447093	0.0962771	5.08E-06
T	A	0.09	0.4187065	0.09235593	8.29E-06
C	T	0.09	0.4187065	0.09235593	8.29E-06
C	T	0.09	0.4187065	0.09235593	8.29E-06
T	C	0.09	0.428608	0.09144417	4.18E-06
G	GT	0.09	0.4187065	0.09235593	8.29E-06
C	T	0.08	0.4532295	0.09438718	2.48E-06
A	T	0.04	0.6127422	0.1320747	5.19E-06
G	T	0.49	0.2387078	0.05270431	8.46E-06
T	C	0.49	0.2479547	0.05258757	3.69E-06
A	T	0.03	0.8230864	0.1601849	5.08E-07
A	G	0.03	0.8230864	0.1601849	5.08E-07
TTTAAGGC	T	0.02	0.8528612	0.1738091	1.53E-06
T	C	0.28	-0.2827089	0.05878581	2.40E-06
T	G	0.28	-0.2753449	0.0589195	4.45E-06
A	C	0.28	-0.2753449	0.0589195	4.45E-06
T	C	0.28	-0.2751932	0.05891531	4.50E-06
T	C	0.28	-0.2753449	0.0589195	4.45E-06
G	A	0.28	-0.2721262	0.05892166	5.69E-06
TGGCCCTCCTA	T	0.28	-0.2685387	0.05895674	7.55E-06
C	A	0.3	-0.2604796	0.05797205	9.90E-06
A	G	0.32	-0.2778293	0.05719831	1.92E-06
AG	A	0.45	0.2619179	0.05369726	1.75E-06
A	G	0.09	0.3763121	0.08200373	6.49E-06
T	C	0.01	1.100254	0.2397756	6.50E-06
G	C	0.03	0.7008156	0.1528688	6.63E-06
C	G	0.03	0.7008156	0.1528688	6.63E-06
G	A	0.03	0.7220044	0.1544589	4.43E-06
T	TTGTG	0.02	0.9865124	0.2115324	4.65E-06
A	T	0.01	1.160835	0.2342192	1.21E-06
C	T	0.01	1.160579	0.2474661	4.13E-06
G	A	0.03	-0.6665391	0.1464997	7.72E-06
A	G	0.03	-0.6950733	0.14784	3.92E-06
T	A	0.01	1.308997	0.2750058	3.01E-06
C	T	0.22	-0.2914685	0.06374779	6.99E-06
C	T	0.03	0.7633035	0.1578861	2.13E-06
T	G	0.03	0.7694501	0.1597775	2.33E-06
G	A	0.03	0.6982281	0.1510123	5.56E-06
T	C	0.05	-0.5761334	0.126152	7.16E-06

G	A	0.04	0.6271385	0.1389226	9.03E-06
C	G	0.47	0.2941262	0.05425051	1.26E-07
T	C	0.25	0.2778534	0.05928567	4.19E-06
G	T	0.03	0.6727504	0.1492611	9.31E-06
C	T	0.06	-0.5366439	0.1118559	2.53E-06
AAAAC	A	0.3	0.2724495	0.05833841	4.52E-06
C	T	0.03	-0.7711319	0.1627131	3.30E-06
CCACGCACGACCCCAK	G	0.09	0.3900579	0.08573004	7.72E-06
A	G	0.24	0.2818652	0.06146772	6.59E-06
A	G	0.24	0.2818652	0.06146772	6.59E-06
C	T	0.24	0.2780483	0.06146549	8.66E-06
G	A	0.24	0.2818853	0.06119567	6.01E-06
A	G	0.25	0.2908457	0.06147901	3.43E-06
A	G	0.25	0.2968862	0.06066188	1.62E-06
T	G	0.25	0.2813614	0.06140632	6.70E-06
G	A	0.01	-0.9832949	0.1531328	6.29E-10
A	G	0.02	0.6794247	0.1114989	3.75E-09
C	T	0.03	-0.4220151	0.07025315	5.99E-09
C	T	0.1	0.4330031	0.08864652	1.76E-06
TTTA	T	0.08	0.5085688	0.09643694	2.76E-07
C	T	0.08	0.5208515	0.09506987	1.00E-07
C	T	0.14	0.3343227	0.07163726	4.72E-06
A	G	0.02	-1.022564	0.2202508	5.26E-06
T	A	0.02	-1.022564	0.2202508	5.26E-06
T	G	0.02	-1.022564	0.2202508	5.26E-06
A	G	0.02	-1.022564	0.2202508	5.26E-06
C	CAAAAAAAAA	0.02	-0.7999036	0.1733605	5.98E-06
C	T	0.01	-1.012592	0.2175684	5.00E-06
T	C	0.01	-1.083263	0.2361561	6.73E-06
A	G	0.02	-1.00722	0.2193283	6.58E-06
C	CT	0.05	0.5805752	0.1231217	3.80E-06
G	A	0.01	-1.008553	0.2217513	7.99E-06
T	C	0.01	-1.008553	0.2217513	7.99E-06
A	G	0.06	0.494959	0.1099822	9.85E-06
T	C	0.06	0.509276	0.1118531	7.82E-06
A	G	0.05	0.5898509	0.1281916	6.32E-06
A	C	0.11	0.4037847	0.08937213	9.12E-06
T	C	0.03	0.6958893	0.154291	9.43E-06
T	C	0.48	-0.2861538	0.05503376	3.96E-07
G	T	0.45	-0.2612476	0.05526724	3.61E-06
C	A	0.27	0.2766189	0.06050426	7.20E-06
G	A	0.2	-0.2981487	0.0638163	4.62E-06
C	T	0.24	-0.2909589	0.06149661	3.54E-06
T	C	0.23	-0.2844151	0.06310707	9.57E-06
G	A	0.24	-0.2820879	0.06173174	7.27E-06
A	C	0.24	-0.2907906	0.06215082	4.48E-06
G	A	0.24	-0.280693	0.06235843	9.81E-06
G	A	0.24	-0.2860539	0.0623307	6.67E-06
C	CAGAT	0.23	-0.3030928	0.06244159	2.02E-06
C	T	0.24	-0.2898483	0.06259974	5.56E-06

G	C	0.23	-0.2967369	0.06250836	3.29E-06
A	AT	0.24	-0.2983579	0.06231014	2.73E-06
G	C	0.23	-0.2912063	0.06257146	5.00E-06
G	A	0.24	-0.2873445	0.06229846	6.02E-06
T	C	0.24	-0.2873445	0.06229846	6.02E-06
C	T	0.24	-0.2873445	0.06229846	6.02E-06
G	T	0.24	-0.2873445	0.06229846	6.02E-06
G	A	0.24	-0.2873445	0.06229846	6.02E-06
C	T	0.24	-0.2873445	0.06229846	6.02E-06
G	A	0.24	-0.2873445	0.06229846	6.02E-06
C	T	0.24	-0.2822861	0.06231298	8.65E-06
CA	C	0.23	-0.2822598	0.06259331	9.47E-06
G	A	0.24	-0.2873445	0.06229846	6.02E-06
A	T	0.24	-0.2868852	0.06258008	6.82E-06
T	C	0.23	-0.2912162	0.06277606	5.35E-06
T	A	0.23	-0.2895836	0.06219455	4.96E-06
T	C	0.2	-0.280656	0.06226839	9.56E-06
T	C	0.01	1.187391	0.2575006	6.05E-06
A	G	0.01	1.187391	0.2575006	6.05E-06
G	A	0.01	1.187391	0.2575006	6.05E-06
G	A	0.01	1.187391	0.2575006	6.05E-06
C	T	0.01	1.187391	0.2575006	6.05E-06
G	A	0.01	1.187391	0.2575006	6.05E-06
G	T	0.01	1.187391	0.2575006	6.05E-06
A	T	0.01	1.187391	0.2575006	6.05E-06
C	A	0.01	1.187391	0.2575006	6.05E-06
A	G	0.02	-0.8535617	0.178952	2.97E-06
C	G	0.24	-0.2906379	0.06249758	5.09E-06
G	A	0.24	-0.2943623	0.06246902	3.86E-06
A	G	0.24	-0.2939638	0.06201886	3.40E-06
G	C	0.24	-0.2895423	0.06194807	4.58E-06
C	T	0.24	-0.2906379	0.06249758	5.09E-06
G	A	0.22	-0.3074388	0.06322942	1.95E-06
C	A	0.24	-0.278105	0.06168752	9.51E-06
A	G	0.25	-0.2792798	0.06119529	7.46E-06
G	GAA	0.04	-0.5492416	0.1202504	7.34E-06
C	T	0.02	-0.8906393	0.1960642	8.19E-06
A	G	0.32	-0.2782117	0.05603999	1.21E-06
T	C	0.31	-0.2698326	0.05696466	3.45E-06
T	A	0.31	-0.2657131	0.05710701	5.03E-06
G	A	0.31	-0.2702149	0.05726753	3.75E-06
G	A	0.31	-0.2702221	0.05675545	3.09E-06
A	G	0.31	-0.2822229	0.05695204	1.26E-06
C	T	0.31	-0.2837334	0.05677245	1.04E-06
C	G	0.31	-0.2745656	0.05709459	2.49E-06
T	G	0.31	-0.2736663	0.05701709	2.59E-06
T	C	0.31	-0.2770158	0.05693151	1.91E-06
T	C	0.31	-0.2901054	0.05635345	5.07E-07
T	C	0.31	-0.2770158	0.05693151	1.91E-06
C	T	0.31	-0.2870057	0.05671025	7.69E-07

C	T	0.31	-0.2815577	0.05690353	1.31E-06
T	G	0.31	-0.28802	0.05642781	6.26E-07
C	T	0.32	-0.2819859	0.05613234	9.17E-07
A	G	0.31	-0.2991787	0.05675905	2.80E-07
A	G	0.32	-0.2839268	0.05702623	1.13E-06
A	G	0.31	-0.2736689	0.05719369	2.77E-06
A	G	0.33	-0.2664744	0.05707547	4.68E-06
A	G	0.01	1.250057	0.2435504	5.46E-07
C	T	0.01	1.250057	0.2435504	5.46E-07
C	T	0.01	1.250057	0.2435504	5.46E-07
C	T	0.01	1.250057	0.2435504	5.46E-07
A	AT	0.01	1.250057	0.2435504	5.46E-07
A	C	0.17	0.327989	0.0723899	8.62E-06
C	A	0.06	-0.5338251	0.1170223	7.53E-06
G	A	0.24	0.2884442	0.061674	4.52E-06
T	C	0.24	0.2884442	0.061674	4.52E-06
G	A	0.25	0.2858953	0.06144179	5.02E-06
A	G	0.25	0.2914878	0.06111319	2.97E-06
T	G	0.24	0.285464	0.06096315	4.40E-06
G	A	0.01	1.220543	0.2626958	5.18E-06
G	A	0.22	-0.3010648	0.06601729	7.57E-06
G	GGTGTGTGT	0.01	1.239253	0.2697086	6.51E-06
G	A	0.03	-0.6547981	0.1455667	9.94E-06
C	T	0.11	0.378986	0.08219987	6.07E-06
A	C	0.46	0.2778299	0.05320661	3.55E-07
C	T	0.05	0.6184836	0.1240036	1.09E-06
T	TTGTG	0.09	0.4835745	0.09449969	5.88E-07
TCTGAGAC	T	0.01	-1.296859	0.2466929	2.99E-07
C	CT	0.02	-0.8581459	0.1830883	4.32E-06
G	A	0.06	0.5347376	0.1121935	3.02E-06
A	T	0.08	0.4215818	0.09254753	7.75E-06
CTT	C	0.08	0.4512735	0.1001676	9.64E-06
C	CAGATAGATAGAT	0.1	-0.3732522	0.08248754	8.85E-06
G	A	0.31	-0.216296	0.03628372	8.25E-09
T	C	0.31	-0.2222811	0.03605738	2.76E-09
C	T	0.31	-0.2187992	0.03630987	5.84E-09
C	T	0.32	-0.2259292	0.03583653	1.29E-09
A	G	0.31	-0.2337865	0.03626012	5.81E-10
A	G	0.32	-0.22167	0.03648008	4.45E-09
A	G	0.02	-0.9831884	0.1569325	1.66E-09
A	T	0.03	0.586509	0.09681857	4.94E-09
A	G	0.02	-0.9311173	0.1452237	7.10E-10
A	G	0.02	-0.9311173	0.1452237	7.10E-10
T	G	0.02	-0.8520362	0.1434239	9.20E-09
A	G	0.02	-0.9311173	0.1452237	7.10E-10
G	A	0.02	-0.9669452	0.1537425	1.40E-09
A	T	0.04	0.4733636	0.07740521	3.64E-09
T	C	0.02	-0.7949616	0.1258251	1.20E-09
C	G	0.02	-0.7218175	0.115112	1.65E-09
G	T	0.02	-0.7218175	0.115112	1.65E-09

G	T	0.02	-0.7218175	0.115112	1.65E-09
T	C	0.02	-0.7218175	0.115112	1.65E-09
G	A	0.02	-0.7218175	0.115112	1.65E-09
C	T	0.02	-0.7218175	0.115112	1.65E-09
A	G	0.01	0.6192142	0.1042985	9.46E-09
C	T	0.01	0.6192142	0.1042985	9.46E-09
C	T	0.01	0.6192142	0.1042985	9.46E-09
C	T	0.01	0.6192142	0.1042985	9.46E-09
A	AT	0.01	0.6192142	0.1042985	9.46E-09
A	C	0.46	0.2004081	0.03342135	7.93E-09
G	A	0.02	-0.5297646	0.08927313	8.78E-09
T	G	0.01	0.8927103	0.1491263	7.43E-09
C	T	0.01	0.3836689	0.06262216	3.11E-09
T	A	0.04	0.4662414	0.07837104	8.13E-09
C	T	0.01	0.9966767	0.1346096	1.83E-12
T	G	0.01	0.9966767	0.1346096	1.83E-12
T	TC	0.01	0.8439921	0.1164083	4.70E-12
A	G	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
A	T	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
C	T	0.01	0.8439921	0.1164083	4.70E-12
C	T	0.01	0.8439921	0.1164083	4.70E-12
T	C	0.01	0.8439921	0.1164083	4.70E-12
C	G	0.01	0.8439921	0.1164083	4.70E-12
G	C	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
T	C	0.01	0.8439921	0.1164083	4.70E-12
AC	A	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
A	G	0.01	0.8439921	0.1164083	4.70E-12
C	T	0.01	0.8439921	0.1164083	4.70E-12
C	T	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8439921	0.1164083	4.70E-12
G	A	0.01	0.8247455	0.1210333	6.33E-11
GTGAGAATGAGTTAAC	T	0.01	0.8260686	0.1318379	1.45E-09
G	A	0.01	0.8439921	0.1164083	4.70E-12
G	T	0.01	0.8439921	0.1164083	4.70E-12
A	T	0.01	0.8156268	0.1316829	2.15E-09
G	A	0.01	0.8439921	0.1164083	4.70E-12
A	G	0.01	0.8439921	0.1164083	4.70E-12
T	C	0.02	0.7941685	0.1139296	2.52E-11
A	G	0.02	0.7941685	0.1139296	2.52E-11
T	C	0.02	0.7941685	0.1139296	2.52E-11
C	G	0.02	0.7941685	0.1139296	2.52E-11
C	T	0.02	0.7941685	0.1139296	2.52E-11
C	T	0.01	0.8275575	0.1238189	1.35E-10
AG	A	0.02	0.7941685	0.1139296	2.52E-11
T	A	0.02	0.7941685	0.1139296	2.52E-11

A	G	0.02	0.7941685	0.1139296	2.52E-11
T	TG	0.01	0.7733131	0.1239679	1.69E-09
A	G	0.02	0.8345121	0.1075883	2.04E-13
A	AT	0.02	0.7941685	0.1139296	2.52E-11
CTGAGG	C	0.17	0.1545858	0.02596364	7.98E-09
A	T	0.02	0.5051269	0.08394347	5.69E-09
T	A	0.27	-0.1217154	0.02039315	7.37E-09
G	A	0.02	-0.4206762	0.07023304	8.23E-09
A	T	0.01	0.7121927	0.1195521	8.14E-09
A	T	0.01	0.4249443	0.07154797	8.62E-09
T	A	0.01	0.778313	0.1253844	1.99E-09
G	A	0.4	-0.1369798	0.02261258	5.19E-09
ATTATTTTATT	A	0.02	0.9973052	0.2157459	5.61E-06
G	A	0.13	0.3530174	0.07515365	4.01E-06
A	T	0.03	-0.694881	0.1477685	3.92E-06
A	G	0.01	1.39389	0.2707701	4.88E-07
G	A	0.19	0.3038585	0.06755939	9.74E-06
T	G	0.01	1.181101	0.2560816	5.87E-06
C	T	0.06	0.5254959	0.1146604	6.68E-06
G	A	0.01	1.195477	0.2544635	4.00E-06
G	C	0.04	0.6028144	0.1339154	9.58E-06
G	A	0.02	0.9974369	0.2207494	8.89E-06
G	A	0.03	-0.7499986	0.1651665	8.06E-06
G	A	0.03	-0.7499986	0.1651665	8.06E-06
AGT	A	0.03	0.7190052	0.1574231	7.17E-06
T	C	0.01	1.260091	0.2722884	5.48E-06
T	C	0.01	1.260091	0.2722884	5.48E-06
C	A	0.01	-1.006073	0.2157296	4.67E-06
A	T	0.02	-0.9166034	0.2018076	8.02E-06
C	T	0.02	-0.9166034	0.2018076	8.02E-06
C	G	0.02	-0.8643325	0.1875802	5.99E-06
G	A	0.05	0.5298281	0.1165082	7.82E-06
A	G	0.04	0.6578473	0.1357055	2.02E-06
C	A	0.09	0.4522268	0.09751209	5.24E-06
C	T	0.27	-0.2673404	0.05814441	6.26E-06
A	G	0.27	-0.2689837	0.05849256	6.24E-06
C	T	0.26	-0.2775534	0.05936313	4.42E-06
C	T	0.01	0.9661304	0.2106429	6.58E-06
G	A	0.01	1.202851	0.2385072	8.05E-07
A	G	0.02	0.9794966	0.2135848	6.60E-06
A	ATCTCTCTCTCTC	0.01	1.183054	0.2538355	4.73E-06
C	T	0.35	-0.2652656	0.05857903	8.51E-06
A	G	0.4	-0.2646024	0.05609139	3.66E-06
T	C	0.35	-0.2650795	0.05899253	9.92E-06
A	C	0.41	-0.2513712	0.05349128	3.97E-06
T	C	0.03	0.7911782	0.1683978	3.99E-06
A	ATGTG	0.01	1.230265	0.257108	2.69E-06
C	T	0.18	-0.327185	0.07113865	6.22E-06
C	T	0.18	-0.3191657	0.07060956	8.82E-06
A	G	0.18	-0.3237928	0.06996441	5.47E-06

T	C	0.18	-0.3237366	0.0702267	5.93E-06
G	A	0.18	-0.3185154	0.06968544	7.06E-06
G	T	0.18	-0.3209823	0.07015155	6.91E-06
T	A	0.17	-0.324499	0.07031827	5.81E-06
C	A	0.02	0.9330319	0.1948471	2.65E-06
A	G	0.05	0.6265349	0.1262709	1.18E-06
G	A	0.01	1.104142	0.2411995	6.85E-06
A	T	0.02	0.9761573	0.2088036	4.43E-06
T	C	0.27	-0.2814197	0.061511	6.92E-06
G	A	0.29	-0.2728111	0.05871739	5.05E-06
G	T	0.29	-0.2728111	0.05871739	5.05E-06
G	A	0.29	-0.267884	0.05877885	7.49E-06
T	TCAA	0.25	0.3093581	0.0661906	4.46E-06
A	G	0.12	0.384797	0.08056699	2.80E-06
C	A	0.23	0.281622	0.0611209	5.99E-06
C	A	0.23	0.2909799	0.06113947	3.03E-06
C	T	0.23	0.3030675	0.06129505	1.29E-06
C	A	0.23	0.2800655	0.06124967	7.00E-06
T	A	0.24	0.288561	0.06121551	3.72E-06
AT	A	0.24	0.2889922	0.06001458	2.34E-06
A	C	0.24	0.2778317	0.06078129	7.05E-06
C	T	0.24	0.2854781	0.0609368	4.24E-06
C	T	0.25	0.2680136	0.05934379	8.97E-06
G	C	0.24	0.2911627	0.05988323	1.89E-06
G	A	0.25	0.2721903	0.05936155	6.62E-06
C	T	0.24	0.2794702	0.06021294	5.16E-06
C	A	0.25	0.2780489	0.05942435	4.35E-06
G	A	0.25	0.2671177	0.05927322	9.36E-06
A	G	0.25	0.2803082	0.0597549	4.13E-06
C	T	0.01	1.203042	0.2618409	6.35E-06
T	C	0.01	1.361451	0.2663823	5.83E-07
AACACACAC	A	0.01	1.212156	0.2504028	2.08E-06
G	A	0.22	-0.2975454	0.06391616	4.85E-06
CT	C	0.22	-0.2934424	0.06415801	6.97E-06
G	A	0.03	-0.7666744	0.1694248	8.63E-06
A	G	0.17	-0.3161357	0.07019325	9.48E-06
G	T	0.02	-1.044456	0.2186976	2.81E-06
A	T	0.38	0.2487502	0.05277073	3.72E-06
G	A	0.38	0.2430728	0.05391517	9.29E-06
T	A	0.01	1.071834	0.2342722	6.92E-06
C	T	0.01	1.071834	0.2342722	6.92E-06
G	A	0.01	1.071834	0.2342722	6.92E-06
T	TG	0.03	0.6933535	0.1526877	8.05E-06
T	C	0.01	1.071834	0.2342722	6.92E-06
C	T	0.01	1.071834	0.2342722	6.92E-06
C	T	0.01	1.071834	0.2342722	6.92E-06
T	A	0.01	1.071834	0.2342722	6.92E-06
C	A	0.01	1.071834	0.2342722	6.92E-06
A	G	0.01	1.071834	0.2342722	6.92E-06
C	T	0.18	0.3182983	0.06832713	4.78E-06

G	A	0.19	0.3108866	0.06767526	6.37E-06
G	T	0.19	0.3108866	0.06767526	6.37E-06
G	T	0.18	0.3429444	0.06965475	1.42E-06
T	TCA	0.39	0.2309795	0.04998103	5.64E-06
A	G	0.48	0.2398912	0.05180542	5.41E-06
C	CTGTGTGTGTG	0.03	0.7342206	0.163014	9.47E-06
T	C	0.01	1.207926	0.2465689	1.59E-06
C	T	0.01	1.131425	0.2481461	7.42E-06
AAACTG	A	0.04	0.5909185	0.1307427	8.84E-06
C	GGGACTTGAGTAAAC	0.01	1.212235	0.2636732	6.27E-06
A	G	0.01	1.2672	0.1955308	4.38E-10
C	T	0.14	-0.2317171	0.03628438	7.47E-10
A	G	0.02	0.8225035	0.1307233	1.53E-09
C	T	0.01	1.175874	0.1951515	5.44E-09
T	G	0.01	1.175874	0.1951515	5.44E-09
T	TC	0.01	1.029552	0.1683692	3.35E-09
A	G	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
A	T	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
C	T	0.01	1.029552	0.1683692	3.35E-09
C	T	0.01	1.029552	0.1683692	3.35E-09
T	C	0.01	1.029552	0.1683692	3.35E-09
C	G	0.01	1.029552	0.1683692	3.35E-09
G	C	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
T	C	0.01	1.029552	0.1683692	3.35E-09
AC	A	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
A	G	0.01	1.029552	0.1683692	3.35E-09
C	T	0.01	1.029552	0.1683692	3.35E-09
C	T	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
G	T	0.01	1.029552	0.1683692	3.35E-09
G	A	0.01	1.029552	0.1683692	3.35E-09
A	G	0.01	1.029552	0.1683692	3.35E-09
A	G	0.02	0.9906073	0.1560397	9.22E-10
A	G	0.01	1.247015	0.1962102	9.01E-10
G	GTC	0.19	-0.2886673	0.04876013	9.61E-09
G	T	0.02	-0.8337649	0.1383814	6.30E-09
C	CTG	0.09	-0.630855	0.1035537	5.39E-09
C	T	0.46	0.2743098	0.04616529	9.82E-09
C	T	0.4	0.2772571	0.04619059	7.13E-09
T	C	0.06	-0.2570228	0.04311144	7.79E-09
C	G	0.03	-0.3413562	0.05766798	9.77E-09
A	ATGGAGTGGAG	0.01	-0.742748	0.123756	6.13E-09
C	CTATG	0.09	0.3678254	0.06177002	8.77E-09
C	T	0.01	0.8441286	0.1334143	1.03E-09

T	G	0.01	0.8441286	0.1334143	1.03E-09
T	TC	0.01	0.7404781	0.1150191	5.52E-10
A	G	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
A	T	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
C	T	0.01	0.7404781	0.1150191	5.52E-10
C	T	0.01	0.7404781	0.1150191	5.52E-10
T	C	0.01	0.7404781	0.1150191	5.52E-10
C	G	0.01	0.7404781	0.1150191	5.52E-10
G	C	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
T	C	0.01	0.7404781	0.1150191	5.52E-10
AC	A	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
A	G	0.01	0.7404781	0.1150191	5.52E-10
C	T	0.01	0.7404781	0.1150191	5.52E-10
C	T	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7404781	0.1150191	5.52E-10
G	A	0.01	0.7187809	0.1201244	6.76E-09
G	A	0.01	0.7404781	0.1150191	5.52E-10
G	T	0.01	0.7404781	0.1150191	5.52E-10
A	T	0.01	0.7858691	0.1295779	4.36E-09
G	A	0.01	0.7404781	0.1150191	5.52E-10
A	G	0.01	0.7404781	0.1150191	5.52E-10
T	C	0.02	0.7082328	0.1126452	1.28E-09
A	G	0.02	0.7082328	0.1126452	1.28E-09
T	C	0.02	0.7082328	0.1126452	1.28E-09
C	G	0.02	0.7082328	0.1126452	1.28E-09
C	T	0.02	0.7082328	0.1126452	1.28E-09
AG	A	0.02	0.7082328	0.1126452	1.28E-09
T	A	0.02	0.7082328	0.1126452	1.28E-09
A	G	0.02	0.7082328	0.1126452	1.28E-09
A	G	0.02	0.7277565	0.1063693	5.39E-11
A	AT	0.02	0.7082328	0.1126452	1.28E-09
G	A	0.02	-0.5398874	0.08875126	3.99E-09
C	CGTGTGTGT	0.01	-0.5606244	0.09291523	5.15E-09
A	G	0.02	-0.4450431	0.07490079	8.45E-09
T	TACACACAC	0.08	-0.2490637	0.04194797	8.67E-09
T	C	0.02	-0.4583892	0.07624962	5.79E-09
G	C	0.02	-0.4583892	0.07624962	5.79E-09
T	C	0.01	-0.5055239	0.0840683	5.74E-09
G	A	0.01	-0.5762652	0.09618594	6.47E-09
T	G	0.21	-0.2715835	0.0448892	4.71E-09
G	GAAGA	0.08	-0.4487635	0.07477722	7.94E-09
G	T	0.02	-0.6142626	0.1015445	5.48E-09
C	A	0.05	-0.2559491	0.04214156	4.17E-09
C	T	0.05	-0.2559491	0.04214156	4.17E-09
T	G	0.06	-0.2414704	0.0390797	2.34E-09

A	G	0.06	-0.2448913	0.0392673	1.71E-09
A	G	0.06	-0.2414704	0.0390797	2.34E-09
A	G	0.06	-0.2414704	0.0390797	2.34E-09
C	T	0.06	-0.2414704	0.0390797	2.34E-09
C	T	0.06	-0.2414704	0.0390797	2.34E-09
C	T	0.05	-0.2507002	0.04190104	6.79E-09
TC	T	0.06	-0.2414704	0.0390797	2.34E-09
C	T	0.06	-0.2414704	0.0390797	2.34E-09
G	A	0.05	-0.2507002	0.04190104	6.79E-09
C	T	0.06	-0.2356153	0.03930851	6.41E-09
T	C	0.05	-0.2507002	0.04190104	6.79E-09
G	A	0.06	-0.2414704	0.0390797	2.34E-09
T	C	0.08	-0.218205	0.033982	6.08E-10
T	C	0.05	-0.2507002	0.04190104	6.79E-09
T	C	0.16	-0.328811	0.07016024	4.19E-06
TA	T	0.14	-0.3286415	0.07316424	9.96E-06
G	T	0.15	-0.3652588	0.07199812	6.95E-07
A	G	0.14	-0.3682911	0.07372219	1.01E-06
T	TAC	0.38	0.3007658	0.05886323	5.84E-07
A	C	0.02	-0.9705454	0.2102224	5.74E-06
T	C	0.01	-1.055271	0.223462	3.57E-06
C	T	0.01	-1.096518	0.243184	9.24E-06
A	AGTGTGT	0.27	-0.3014974	0.0660834	7.30E-06
C	T	0.21	-0.3038469	0.06670733	7.55E-06
CT	C	0.08	-0.4167926	0.08411215	1.22E-06
T	TA	0.26	-0.2787092	0.06170373	8.92E-06
C	T	0.02	-0.9522538	0.2114918	9.50E-06
G	A	0.32	0.2478785	0.05464581	8.20E-06
C	A	0.1	-0.386243	0.08584497	9.64E-06
A	T	0.01	-1.293595	0.2380217	1.18E-07
T	C	0.24	-0.264353	0.05856182	9.04E-06
T	A	0.24	-0.2660964	0.05857302	7.96E-06
C	T	0.24	-0.2659145	0.05859143	8.12E-06
A	T	0.45	-0.2331034	0.05138086	8.18E-06
G	ACACACACACACA	0.03	-0.655101	0.1430574	6.78E-06
C	T	0.19	-0.2742194	0.05995391	6.94E-06
A	AAAAT	0.01	-1.062446	0.2346148	8.48E-06
G	A	0.49	-0.2411808	0.0515891	4.42E-06
G	C	0.49	-0.2430549	0.05111032	3.07E-06
T	C	0.5	-0.238728	0.05178107	5.90E-06
G	GA	0.03	-0.6905526	0.146853	3.91E-06
AGT	A	0.01	-1.003331	0.2220715	8.88E-06
T	TA	0.02	-0.9776046	0.2022183	2.14E-06
A	G	0.02	-0.8695768	0.1739532	9.90E-07
A	AGTGTGT	0.01	-1.024141	0.2200156	4.84E-06
T	C	0.3	-0.2413253	0.05348597	9.12E-06
T	C	0.36	0.275459	0.0543668	7.17E-07
T	C	0.25	0.3198768	0.0593786	1.50E-07
A	C	0.25	0.3198768	0.0593786	1.50E-07
A	G	0.36	0.2839193	0.05421464	3.14E-07

A	G	0.26	0.2800504	0.05893306	3.12E-06
T	C	0.27	0.2937745	0.05787415	6.85E-07
T	TA	0.26	0.2875924	0.0588795	1.69E-06
C	T	0.26	0.2932548	0.05869651	1.00E-06
A	T	0.26	0.2932548	0.05869651	1.00E-06
T	C	0.26	0.2838208	0.0589216	2.32E-06
C	A	0.25	0.3135972	0.05943733	2.59E-07
C	CT	0.38	0.2664871	0.05295212	8.43E-07
T	C	0.36	0.2577307	0.05325034	2.08E-06
T	A	0.27	0.2985021	0.05942251	8.81E-07
C	A	0.01	-1.169843	0.2458736	3.03E-06
T	C	0.01	-1.169843	0.2458736	3.03E-06
G	A	0.01	-1.169843	0.2458736	3.03E-06
C	T	0.01	-1.169843	0.2458736	3.03E-06
A	C	0.02	-0.9665054	0.2047878	3.61E-06
G	C	0.02	-0.8031482	0.1666627	2.29E-06
T	G	0.03	-0.75673	0.1534588	1.36E-06
A	AACACACACACAC	0.04	-0.6624296	0.143254	5.55E-06
A	AGTGTGT	0.01	-1.093634	0.2381727	6.41E-06
C	T	0.5	-0.2389263	0.05249674	7.67E-06
G	A	0.46	0.2438643	0.05397555	8.88E-06
CA	C	0.4	-0.2393437	0.05255551	7.58E-06
C	T	0.41	-0.2400153	0.05260966	7.31E-06
C	G	0.43	-0.2595653	0.05249299	1.28E-06
T	G	0.48	0.2399721	0.05304334	8.65E-06
C	T	0.41	-0.2412176	0.0521709	5.56E-06
C	A	0.43	-0.2497589	0.05264202	3.23E-06
C	T	0.42	-0.2529327	0.05313681	3.01E-06
C	G	0.47	-0.2470416	0.05298198	4.67E-06
C	G	0.44	-0.2472849	0.05297884	4.57E-06
CAT	C	0.44	-0.2623008	0.05282316	1.16E-06
C	G	0.47	-0.2474454	0.05297967	4.51E-06
C	A	0.47	-0.2423379	0.05290567	6.74E-06
A	C	0.45	-0.2474901	0.05307618	4.67E-06
G	A	0.02	-0.9291286	0.2061231	9.29E-06
C	A	0.02	-0.8098006	0.1715961	3.62E-06
A	C	0.02	-0.8098006	0.1715961	3.62E-06
C	CT	0.04	-0.5753512	0.1227252	4.17E-06
G	C	0.2	-0.3011062	0.06665596	8.91E-06
AGCCC	A	0.38	-0.2424885	0.05174233	4.20E-06
C	G	0.04	-0.625334	0.1322767	3.49E-06
C	A	0.15	-0.366219	0.0742452	1.35E-06
T	A	0.07	-0.5035868	0.1079168	4.59E-06
CT	C	0.37	0.2572283	0.05496066	4.32E-06
G	T	0.21	-0.2949345	0.06408976	6.13E-06
G	T	0.1	-0.4284734	0.08764503	1.66E-06
G	GAAC	0.01	-1.110856	0.2464262	9.29E-06
A	T	0.02	-0.8990007	0.1967859	7.11E-06
G	A	0.28	0.2683316	0.05913539	8.15E-06
G	T	0.04	-0.6254306	0.1358241	6.05E-06

C	T	0.04	-0.6254306	0.1358241	6.05E-06
A	G	0.04	-0.6254306	0.1358241	6.05E-06
T	C	0.04	-0.6254306	0.1358241	6.05E-06
G	C	0.04	-0.6254306	0.1358241	6.05E-06
C	T	0.04	-0.6254306	0.1358241	6.05E-06
C	A	0.04	-0.6254306	0.1358241	6.05E-06
T	C	0.04	-0.6445419	0.1365435	3.60E-06
A	T	0.04	-0.6254306	0.1358241	6.05E-06
T	C	0.04	-0.6254306	0.1358241	6.05E-06
T	G	0.04	-0.6254306	0.1358241	6.05E-06
C	T	0.04	-0.6254306	0.1358241	6.05E-06
C	T	0.04	-0.6254306	0.1358241	6.05E-06
A	T	0.04	-0.6423289	0.1363783	3.77E-06
T	C	0.04	-0.5979801	0.1326122	9.23E-06
G	T	0.04	-0.6328312	0.1373968	6.02E-06
G	T	0.04	-0.6258757	0.1329664	3.82E-06
A	T	0.04	-0.6328312	0.1373968	6.02E-06
C	T	0.04	-0.6162086	0.1360626	8.47E-06
C	T	0.04	-0.6328312	0.1373968	6.02E-06
C	T	0.04	-0.6328312	0.1373968	6.02E-06
T	C	0.04	-0.7081071	0.1428193	1.20E-06
A	G	0.04	-0.6388571	0.1386942	6.01E-06
C	T	0.04	-0.7394545	0.1436746	4.88E-07
T	G	0.04	-0.7573152	0.1445318	3.10E-07
C	T	0.04	-0.7081071	0.1428193	1.20E-06
C	T	0.04	-0.7124302	0.1452652	1.54E-06
C	T	0.04	-0.7081071	0.1428193	1.20E-06
C	CTGTG	0.04	-0.6326692	0.1322055	2.68E-06
G	A	0.04	-0.7124302	0.1452652	1.54E-06
C	T	0.04	-0.7081071	0.1428193	1.20E-06
A	G	0.04	-0.7124302	0.1452652	1.54E-06
G	A	0.03	-0.7686172	0.15312	8.97E-07
G	A	0.04	-0.7492668	0.144805	4.27E-07
G	A	0.04	-0.6734869	0.1441906	4.50E-06
G	A	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
A	T	0.04	-0.6734869	0.1441906	4.50E-06
A	G	0.04	-0.6734869	0.1441906	4.50E-06
T	TA	0.04	-0.6734869	0.1441906	4.50E-06
C	A	0.04	-0.6734869	0.1441906	4.50E-06
G	A	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
A	G	0.04	-0.6734869	0.1441906	4.50E-06
C	T	0.03	-0.8199141	0.1686195	1.88E-06
G	A	0.04	-0.6734869	0.1441906	4.50E-06
A	T	0.04	-0.6734869	0.1441906	4.50E-06
C	T	0.04	-0.6734869	0.1441906	4.50E-06
G	A	0.04	-0.6734869	0.1441906	4.50E-06
A	G	0.04	-0.6734869	0.1441906	4.50E-06

T	G	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
C	T	0.04	-0.6734869	0.1441906	4.50E-06
C	A	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.04	-0.6734869	0.1441906	4.50E-06
G	A	0.04	-0.6734869	0.1441906	4.50E-06
C	T	0.04	-0.6734869	0.1441906	4.50E-06
T	C	0.03	-0.7479564	0.1545974	2.10E-06
TG	T	0.37	-0.2445509	0.05372215	7.64E-06
A	C	0.19	0.3132218	0.06734829	4.93E-06
C	G	0.26	0.2705663	0.05841825	5.37E-06
G	T	0.26	0.2755154	0.05895054	4.45E-06
G	T	0.26	0.2669182	0.05902402	8.72E-06
T	A	0.26	0.2669153	0.05883408	8.18E-06
G	A	0.26	0.2697699	0.05901466	7.02E-06
C	G	0.01	-1.182729	0.2315948	5.91E-07
C	T	0.02	-0.9504139	0.2084538	7.40E-06
T	C	0.02	-0.7602089	0.1685764	9.22E-06
TGGGAGGCTGAGGC	T	0.1	-0.4401474	0.08964543	1.50E-06
T	C	0.22	0.3060294	0.06282964	1.80E-06
A	C	0.01	-1.070766	0.2324181	5.99E-06
C	G	0.01	-1.104062	0.2444706	8.95E-06
TA	T	0.03	-0.7427409	0.1531037	1.98E-06
T	C	0.03	-0.7134781	0.1503815	3.23E-06
CA	C	0.04	0.6503305	0.1337748	1.89E-06
T	A	0.13	0.349626	0.07771734	9.67E-06
A	AC	0.11	-0.3929907	0.08747297	9.92E-06
C	T	0.08	-0.4625421	0.1024773	9.05E-06
T	A	0.11	0.1714097	0.02847161	5.54E-09
C	T	0.01	0.8314055	0.1215683	5.49E-11
T	G	0.01	0.8314055	0.1215683	5.49E-11
T	TC	0.01	0.7072219	0.1050322	1.02E-10
A	G	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
A	T	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
C	T	0.01	0.7072219	0.1050322	1.02E-10
C	T	0.01	0.7072219	0.1050322	1.02E-10
T	C	0.01	0.7072219	0.1050322	1.02E-10
C	G	0.01	0.7072219	0.1050322	1.02E-10
G	C	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
T	C	0.01	0.7072219	0.1050322	1.02E-10
AC	A	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
A	G	0.01	0.7072219	0.1050322	1.02E-10
C	T	0.01	0.7072219	0.1050322	1.02E-10

C	T	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.7072219	0.1050322	1.02E-10
G	A	0.01	0.6709481	0.1096622	3.26E-09
G	A	0.01	0.7072219	0.1050322	1.02E-10
G	T	0.01	0.7072219	0.1050322	1.02E-10
A	T	0.01	0.7334071	0.1184079	2.15E-09
G	A	0.01	0.7072219	0.1050322	1.02E-10
A	G	0.01	0.7072219	0.1050322	1.02E-10
T	C	0.02	0.6709743	0.102849	3.39E-10
A	G	0.02	0.6709743	0.102849	3.39E-10
T	C	0.02	0.6709743	0.102849	3.39E-10
C	G	0.02	0.6709743	0.102849	3.39E-10
C	T	0.02	0.6709743	0.102849	3.39E-10
C	T	0.01	0.6706039	0.1114397	5.63E-09
AG	A	0.02	0.6709743	0.102849	3.39E-10
T	A	0.02	0.6709743	0.102849	3.39E-10
A	G	0.02	0.6709743	0.102849	3.39E-10
T	TG	0.01	0.66732	0.1120707	7.91E-09
A	G	0.02	0.7078293	0.09701224	3.56E-12
A	AT	0.02	0.6709743	0.102849	3.39E-10
C	T	0.02	-0.6207754	0.1010545	3.06E-09
C	CGTGTGTGT	0.01	-0.4516223	0.07472583	4.88E-09
T	G	0.21	-0.2419503	0.04017379	5.48E-09
G	A	0.04	0.4161276	0.06970382	7.59E-09
G	A	0.01	-0.4988411	0.07609931	2.85E-10
A	G	0.01	-0.4988411	0.07609931	2.85E-10
A	G	0.01	-0.4988411	0.07609931	2.85E-10
C	T	0.01	-0.4988411	0.07609931	2.85E-10
G	A	0.01	-0.4988411	0.07609931	2.85E-10
T	C	0.01	-0.4988411	0.07609931	2.85E-10
G	A	0.03	-0.7384933	0.1562403	3.49E-06
C	T	0.02	-0.8633095	0.183797	4.00E-06
G	A	0.04	-0.6651994	0.1440891	5.74E-06
G	A	0.04	-0.6651994	0.1440891	5.74E-06
G	A	0.04	-0.6651994	0.1440891	5.74E-06
G	T	0.01	-1.113393	0.2408112	5.56E-06
G	T	0.01	-1.174594	0.254097	5.58E-06
G	A	0.01	-1.174594	0.254097	5.58E-06
C	T	0.09	-0.4375402	0.09167064	2.83E-06
C	T	0.09	-0.4552158	0.09232808	1.36E-06
A	C	0.13	0.3580242	0.07935152	9.11E-06
GAA	G	0.04	-0.6613251	0.1379215	2.56E-06
G	T	0.13	-0.3653741	0.08011864	7.36E-06
CTT	C	0.01	-1.171753	0.2534109	5.55E-06
C	T	0.02	-1.004928	0.1985842	7.38E-07
A	AGT	0.03	-0.6903139	0.1486652	5.09E-06
T	C	0.01	-1.043261	0.2320339	9.76E-06
TAC	T	0.05	-0.5612235	0.1183556	3.26E-06
C	T	0.05	-0.5617791	0.121221	5.30E-06
A	C	0.05	-0.5617791	0.121221	5.30E-06

A	C	0.05	-0.5617791	0.121221	5.30E-06
A	G	0.05	-0.5617791	0.121221	5.30E-06
T	G	0.05	-0.5617791	0.121221	5.30E-06
G	A	0.01	-1.127038	0.2501986	9.41E-06
G	A	0.1	0.4135454	0.09042658	6.95E-06
G	A	0.01	-1.186111	0.2502591	3.30E-06
GTATA	G	0.04	-0.6657131	0.1409601	3.56E-06
G	A	0.04	-0.6573501	0.1299131	7.39E-07
A	C	0.08	-0.4638758	0.09988006	5.07E-06
C	T	0.08	-0.4444549	0.09835641	8.84E-06
A	G	0.07	-0.4671078	0.1017446	6.43E-06
G	A	0.08	-0.4591618	0.0996627	5.98E-06
T	C	0.08	-0.4448043	0.09839249	8.77E-06
C	T	0.02	-0.9739557	0.2115776	6.09E-06
G	A	0.03	-0.7803607	0.1674105	4.69E-06
A	G	0.02	-0.8282753	0.1819118	7.60E-06
T	C	0.01	-1.145491	0.2505062	6.97E-06
T	TA	0.03	-0.6826362	0.1508813	8.63E-06
A	G	0.02	-0.9850939	0.2041743	2.23E-06
C	T	0.02	-0.9850939	0.2041743	2.23E-06
T	C	0.02	-0.9850939	0.2041743	2.23E-06
G	A	0.02	-0.9850939	0.2041743	2.23E-06
G	A	0.02	-0.9850939	0.2041743	2.23E-06
G	A	0.04	-0.6458144	0.1394904	5.41E-06
C	T	0.02	-0.9850939	0.2041743	2.23E-06
C	G	0.01	-1.099163	0.2266272	1.98E-06
A	T	0.01	-1.157339	0.2478882	4.54E-06
C	T	0.01	-1.200908	0.2557101	4.01E-06
A	C	0.01	-1.200908	0.2557101	4.01E-06
G	A	0.02	-0.8931009	0.1863137	2.58E-06
C	T	0.13	-0.3728754	0.08019484	4.95E-06
C	T	0.13	-0.3660773	0.08041851	7.63E-06
T	A	0.13	-0.3707133	0.08023993	5.65E-06
G	T	0.12	-0.388213	0.0834499	4.89E-06
A	G	0.28	-0.2976136	0.06217801	2.66E-06
T	C	0.5	-0.2463463	0.05401428	7.35E-06
T	C	0.28	-0.2954583	0.06223563	3.18E-06
C	T	0.28	-0.2907159	0.06224919	4.51E-06
G	T	0.29	-0.3037698	0.06185944	1.50E-06
G	A	0.3	-0.2880813	0.06114048	3.74E-06
G	A	0.33	-0.2946575	0.05571524	2.43E-07
G	A	0.3	-0.2824666	0.06157232	6.53E-06
G	T	0.5	0.2636856	0.05397977	1.69E-06
C	T	0.5	-0.243208	0.05400983	9.47E-06
C	T	0.3	-0.2748341	0.06091325	9.11E-06
G	T	0.5	-0.2452506	0.05422344	8.68E-06
T	C	0.02	-1.039373	0.2052275	7.23E-07
A	C	0.03	-0.8539164	0.1707531	9.79E-07
C	T	0.03	-0.863894	0.1733435	1.06E-06
A	G	0.02	-0.9875624	0.2102435	3.99E-06

G	C	0.02	-0.9680598	0.2113313	6.73E-06
A	G	0.13	-0.3512211	0.0775817	8.53E-06
A	T	0.02	-1.10468	0.2096222	2.67E-07
G	C	0.02	-0.9287137	0.2004478	5.33E-06
T	C	0.16	0.3393288	0.07136514	3.07E-06
C	A	0.16	0.3347936	0.0709216	3.59E-06
T	A	0.05	-0.6097965	0.1230669	1.22E-06
G	C	0.2	-0.3325223	0.0678938	1.59E-06
CA	C	0.09	-0.4667854	0.09120451	5.60E-07
C	T	0.02	-0.9058471	0.1990842	7.71E-06
G	C	0.18	0.3318344	0.07069058	4.05E-06
A	C	0.36	-0.2581064	0.05474029	3.68E-06
A	G	0.11	0.3957903	0.08629916	6.56E-06
T	G	0.11	0.389089	0.08636543	9.39E-06
A	T	0.11	0.3966059	0.086097	6.00E-06
T	C	0.03	-0.7280729	0.1606664	8.36E-06
C	CGTGTGT	0.06	-0.5451261	0.1150881	3.34E-06
C	G	0.04	-0.684218	0.1374298	1.09E-06
G	A	0.01	-1.095788	0.2393367	6.80E-06
C	T	0.14	-0.3458226	0.07513649	6.11E-06
A	G	0.02	-1.003639	0.216851	5.45E-06
C	T	0.01	-1.158543	0.2506198	5.58E-06
G	A	0.17	0.3175707	0.06921311	6.51E-06
CTT	C	0.31	-0.2619087	0.05804579	9.11E-06
A	G	0.01	-1.081494	0.2390851	8.66E-06
C	T	0.02	-0.924284	0.1862463	1.17E-06
G	T	0.01	-1.061485	0.2282994	4.95E-06
G	GT	0.15	-0.3112175	0.0688386	8.76E-06
G	C	0.03	-0.7861916	0.1647236	2.83E-06
C	CTCCA	0.09	-0.4574436	0.09925068	5.93E-06
T	G	0.01	-1.136867	0.2334933	1.82E-06
A	G	0.01	-1.140479	0.2401745	3.16E-06
T	G	0.33	-0.2635361	0.05790969	7.68E-06
T	C	0.33	-0.2619997	0.05822967	9.63E-06
T	G	0.34	-0.2642308	0.05753547	6.39E-06
G	A	0.01	-1.243292	0.2534913	1.54E-06
C	A	0.01	-1.150618	0.249741	5.98E-06
C	A	0.19	-0.3037126	0.06684835	7.94E-06
C	G	0.11	-0.3919316	0.08657922	8.53E-06
A	G	0.12	-0.3821129	0.08285332	5.86E-06
G	A	0.02	-0.9566097	0.2107012	8.05E-06
GA	G	0.02	-0.7520197	0.1657586	8.17E-06
G	C	0.06	-0.5160143	0.1145508	9.41E-06
G	A	0.08	0.5025824	0.1000463	8.80E-07
G	C	0.07	0.4802213	0.1065143	9.25E-06
C	T	0.01	-1.31742	0.269095	1.60E-06
C	T	0.01	-1.116275	0.2425871	6.13E-06
G	A	0.01	-1.40618	0.2564766	9.23E-08
G	A	0.01	-1.16577	0.2486138	4.14E-06
A	G	0.06	-0.5318957	0.1153179	5.84E-06

G	A	0.06	-0.5318957	0.1153179	5.84E-06
A	G	0.06	-0.5318957	0.1153179	5.84E-06
A	G	0.06	-0.5318957	0.1153179	5.84E-06
T	C	0.06	-0.5309525	0.1156832	6.47E-06
C	T	0.22	-0.2931718	0.06488208	8.85E-06
C	T	0.22	-0.2931718	0.06488208	8.85E-06
T	C	0.22	-0.3062211	0.06529187	4.13E-06
CA	C	0.22	-0.2924366	0.06482487	9.14E-06
G	T	0.22	-0.2931718	0.06488208	8.85E-06
A	T	0.22	-0.2931718	0.06488208	8.85E-06
G	A	0.22	-0.3013386	0.06484398	5.00E-06
C	T	0.22	-0.2931718	0.06488208	8.85E-06
G	A	0.22	-0.2931718	0.06488208	8.85E-06
T	A	0.22	-0.2965965	0.06515386	7.63E-06
G	A	0.22	-0.2931718	0.06488208	8.85E-06
T	C	0.22	-0.2931718	0.06488208	8.85E-06
CACAT	C	0.03	-0.7520181	0.1564818	2.43E-06
T	C	0.22	-0.2931718	0.06488208	8.85E-06
G	A	0.22	-0.2931718	0.06488208	8.85E-06
T	C	0.22	-0.2931718	0.06488208	8.85E-06
TAC	T	0.13	-0.368533	0.0803246	6.51E-06
G	A	0.01	-0.9617374	0.1623606	9.30E-09
G	A	0.01	-0.8944864	0.1409302	9.29E-10
A	G	0.01	-0.6334873	0.1071329	9.89E-09
CA	C	0.09	-0.2557832	0.04220734	4.48E-09
T	G	0.35	-0.1716282	0.02863363	7.11E-09
A	T	0.02	-0.6975997	0.1054834	2.03E-10
G	C	0.02	-0.616442	0.1005955	3.09E-09
C	T	0.02	-0.5801761	0.09789793	9.20E-09
C	T	0.02	-1.194893	0.1981361	6.81E-09
C	T	0.01	-1.316327	0.2125607	2.89E-09
C	CTGTG	0.06	-0.4358894	0.06705248	4.01E-10
A	G	0.01	-1.133422	0.1738619	3.97E-10
G	A	0.01	-0.7731321	0.1300488	9.99E-09
G	A	0.01	-0.9268959	0.1539671	6.34E-09
A	T	0.03	-0.6092147	0.1021772	7.83E-09
C	T	0.01	0.8548389	0.1352207	1.06E-09
T	G	0.01	0.8548389	0.1352207	1.06E-09
A	G	0.02	0.6809495	0.108471	1.35E-09
TTC	T	0.01	-0.7495054	0.120997	2.31E-09
C	T	0.01	-0.8467128	0.12366	5.81E-11
A	C	0.01	-0.7781999	0.1307177	8.47E-09
C	T	0.02	-0.5567797	0.0930716	7.25E-09
C	T	0.02	-0.5567797	0.0930716	7.25E-09
T	G	0.01	-0.7703892	0.1136681	8.70E-11
G	T	0.01	-0.7703892	0.1136681	8.70E-11
GA	G	0.01	-0.7703892	0.1136681	8.70E-11
T	C	0.01	-0.7703892	0.1136681	8.70E-11
A	G	0.02	-0.6447355	0.1072042	6.12E-09
G	A	0.01	-0.4241127	0.06966827	3.95E-09

A	C	0.02	-0.4129284	0.06796321	4.22E-09
GGTGTGTGTGTGT	G	0.01	-1.040738	0.160043	3.81E-10
AAAAT	A	0.02	-0.6868129	0.115467	9.43E-09
C	A	0.03	0.7279026	0.1550995	4.09E-06
G	C	0.02	0.8967733	0.1945294	5.94E-06
G	A	0.02	0.8047872	0.1785612	9.36E-06
CT	C	0.08	0.4023836	0.08928775	9.38E-06
A	G	0.07	0.4199017	0.09300401	9.05E-06
T	G	0.07	0.4199017	0.09300401	9.05E-06
A	G	0.07	0.4199017	0.09300401	9.05E-06
T	G	0.07	0.4199017	0.09300401	9.05E-06
T	C	0.07	0.4199017	0.09300401	9.05E-06
G	A	0.07	0.4199017	0.09300401	9.05E-06
G	A	0.07	0.4199017	0.09300401	9.05E-06
A	C	0.07	0.4199017	0.09300401	9.05E-06
T	C	0.07	0.4199017	0.09300401	9.05E-06
C	T	0.07	0.4199017	0.09300401	9.05E-06
G	T	0.07	0.4211968	0.09332142	9.11E-06
T	C	0.07	0.4291897	0.09424279	7.61E-06
C	T	0.02	0.9184114	0.199889	6.36E-06
T	TTGTGTGTGTG	0.02	0.8108959	0.1796832	9.12E-06
T	TACACAC	0.03	0.6703799	0.1486363	9.23E-06
T	C	0.34	-0.2297845	0.0509392	9.20E-06
G	A	0.32	-0.2353993	0.05217692	9.18E-06
C	T	0.02	0.7669175	0.1666366	6.15E-06
C	T	0.04	0.5934828	0.1239777	2.67E-06
A	G	0.04	0.5934828	0.1239777	2.67E-06
A	G	0.04	0.6117215	0.1354744	9.03E-06
A	AT	0.08	0.4165568	0.09103841	6.92E-06
A	G	0.19	0.3001501	0.0627164	2.69E-06
G	A	0.25	-0.2712283	0.05865913	5.59E-06
TA	T	0.02	0.7698337	0.1507936	6.01E-07
C	ATCTATCTATCTATCT	0.01	1.174301	0.2402071	1.67E-06
C	CATT	0.01	1.203811	0.2415426	1.07E-06
G	A	0.06	0.4803954	0.1061065	8.56E-06
T	TACACAC	0.04	0.6334103	0.1337747	3.39E-06
G	A	0.02	-0.8660971	0.1831272	3.47E-06
TG	T	0.07	0.4244033	0.09299102	7.29E-06
G	A	0.07	0.4421773	0.09540821	5.33E-06
G	A	0.07	0.4299757	0.09308416	5.70E-06
G	T	0.09	0.4113987	0.08926134	5.97E-06
A	G	0.02	0.7865612	0.1747439	9.60E-06
A	C	0.01	0.9769341	0.214404	7.53E-06
G	A	0.11	0.367446	0.0798243	6.13E-06
G	A	0.09	0.3954101	0.08652019	7.09E-06
C	CT	0.42	-0.2623092	0.05012701	3.24E-07
A	AT	0.02	0.8605047	0.1844996	4.67E-06
A	ATTGTGATG	0.01	1.112479	0.2448316	7.97E-06
T	C	0.2	0.3028427	0.06651826	7.66E-06
T	TTTCTTTC	0.02	0.8739722	0.1892095	5.71E-06

T	C	0.02	0.8851772	0.174509	7.03E-07
C	T	0.03	0.6643127	0.1452225	6.96E-06
T	C	0.02	1.029421	0.1917655	1.66E-07
C	A	0.01	1.139268	0.2498787	7.44E-06
T	TACAC	0.03	0.7193987	0.1480064	1.90E-06
C	G	0.06	0.4978515	0.1047142	3.10E-06
G	A	0.01	1.253794	0.2288252	9.51E-08
G	A	0.01	1.253794	0.2288252	9.51E-08
G	GGT	0.03	0.7395245	0.1564624	3.52E-06
C	G	0.09	-0.4192995	0.08713296	2.38E-06
C	T	0.02	1.001934	0.1758378	3.10E-08
C	T	0.03	0.7239517	0.1605521	9.28E-06
A	G	0.01	1.075403	0.2364179	7.80E-06
G	GGTGTGT	0.01	1.018892	0.225852	9.19E-06
G	A	0.01	-0.9417209	0.1567805	6.46E-09
A	G	0.01	-0.9417209	0.1567805	6.46E-09
T	C	0.02	-0.7338762	0.1235675	9.26E-09
C	T	0.02	-0.7338762	0.1235675	9.26E-09
T	G	0.01	-0.827171	0.1355569	3.87E-09
G	T	0.01	-0.827171	0.1355569	3.87E-09
GA	G	0.01	-0.827171	0.1355569	3.87E-09
T	C	0.01	-0.827171	0.1355569	3.87E-09
A	T	0.01	1.178001	0.1953122	6.57E-09
T	C	0.01	0.6308777	0.1059558	9.29E-09
G	A	0.01	0.8550981	0.1399683	3.62E-09
A	AT	0.02	0.7117762	0.1165499	3.67E-09
CT	C	0.08	0.2010913	0.03299373	3.79E-09
TCA	T	0.14	0.4124718	0.05626954	2.96E-12
G	A	0.12	0.3890161	0.05970464	3.61E-10
T	C	0.12	0.3946141	0.05961175	1.99E-10
A	G	0.12	0.3946141	0.05961175	1.99E-10
T	A	0.12	0.4015558	0.05968175	1.06E-10
TA	T	0.19	0.3134704	0.04919471	8.11E-10
G	A	0.12	0.4015558	0.05968175	1.06E-10
G	T	0.12	0.4015558	0.05968175	1.06E-10
CT	C	0.12	0.4065839	0.0596346	6.32E-11
G	A	0.12	0.4003825	0.05983595	1.32E-10
T	C	0.12	0.4107667	0.05973086	4.47E-11
G	A	0.12	0.3984905	0.05982849	1.57E-10
G	A	0.12	0.4237236	0.0587957	6.26E-12
T	C	0.14	0.3266326	0.05362058	3.81E-09
G	A	0.02	-0.8537308	0.1412502	6.05E-09
G	A	0.47	-0.1828057	0.03080522	8.79E-09
T	C	0.21	0.2880995	0.06338068	7.89E-06
G	A	0.22	0.2831763	0.06198385	7.13E-06
T	TTCTCTCTCTCTCTC	0.02	0.9631276	0.1966016	1.59E-06
G	A	0.01	1.057751	0.2212647	2.75E-06
G	T	0.02	0.9661148	0.1942158	1.12E-06
C	G	0.02	1.003189	0.1976884	6.93E-07
AACAG	A	0.02	1.003189	0.1976884	6.93E-07

T	C	0.02	1.003189	0.1976884	6.93E-07
C	T	0.02	1.003189	0.1976884	6.93E-07
G	A	0.02	1.003189	0.1976884	6.93E-07
G	A	0.02	1.003189	0.1976884	6.93E-07
T	A	0.02	0.9490083	0.1942545	1.69E-06
A	AGAGT	0.02	0.8559792	0.1752022	1.69E-06
C	T	0.02	0.8559792	0.1752022	1.69E-06
GTCTGTCTA	G	0.02	0.8020905	0.1754186	7.01E-06
G	GA	0.02	0.8688515	0.180174	2.27E-06
A	G	0.02	0.8688515	0.180174	2.27E-06
C	T	0.02	0.8688515	0.180174	2.27E-06
TTCTCTCTCTCTC	T	0.02	0.9280164	0.2037634	7.59E-06
C	G	0.02	0.8688515	0.180174	2.27E-06
G	A	0.02	0.8688515	0.180174	2.27E-06
T	G	0.02	0.8688515	0.180174	2.27E-06
T	C	0.02	0.8688515	0.180174	2.27E-06
G	C	0.02	0.8688515	0.180174	2.27E-06
G	A	0.02	0.8688515	0.180174	2.27E-06
A	G	0.02	0.8688515	0.180174	2.27E-06
T	C	0.02	0.9382697	0.1794667	3.30E-07
C	T	0.04	0.6043035	0.1288096	4.12E-06
GC	G	0.04	0.5994103	0.1295915	5.54E-06
A	G	0.04	0.6043035	0.1288096	4.12E-06
C	T	0.02	0.8602191	0.1795776	2.63E-06
G	A	0.02	0.8602191	0.1795776	2.63E-06
T	C	0.02	0.8840147	0.1788136	1.29E-06
CT	C	0.02	-0.9906875	0.1999658	1.23E-06
G	A	0.08	0.4312605	0.09477011	7.72E-06
G	A	0.08	0.4467157	0.0953636	4.25E-06
G	T	0.08	0.4462283	0.09571271	4.70E-06
T	C	0.12	0.3857636	0.07817606	1.35E-06
T	C	0.12	0.3636698	0.07987176	7.63E-06
A	T	0.12	0.3302527	0.07081202	4.66E-06
G	T	0.01	1.144229	0.2527857	8.58E-06
C	T	0.01	1.144229	0.2527857	8.58E-06
A	G	0.42	0.2309003	0.05116865	9.12E-06
A	G	0.04	-0.6297627	0.1364364	5.78E-06
A	C	0.03	-0.7487039	0.1468841	6.22E-07
C	T	0.02	-0.9360227	0.1905681	1.50E-06
T	C	0.02	-0.9360227	0.1905681	1.50E-06
A	G	0.02	-0.9360227	0.1905681	1.50E-06
A	G	0.02	-0.9360227	0.1905681	1.50E-06
GC	G	0.02	-0.9360227	0.1905681	1.50E-06
C	T	0.02	-0.9360227	0.1905681	1.50E-06
T	C	0.02	-0.9203742	0.1934802	3.06E-06
T	C	0.02	-0.9360227	0.1905681	1.50E-06
T	C	0.02	-0.9360227	0.1905681	1.50E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06
A	AT	0.02	-0.9162903	0.1983414	5.68E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06

G	A	0.02	-0.9162903	0.1983414	5.68E-06
ATTAG	A	0.02	-0.9162903	0.1983414	5.68E-06
AT	A	0.02	-0.9162903	0.1983414	5.68E-06
C	T	0.02	-0.9162903	0.1983414	5.68E-06
A	G	0.02	-0.9162903	0.1983414	5.68E-06
T	TA	0.02	-0.9162903	0.1983414	5.68E-06
A	G	0.02	-0.9162903	0.1983414	5.68E-06
T	G	0.02	-0.9162903	0.1983414	5.68E-06
G	C	0.02	-0.9162903	0.1983414	5.68E-06
G	T	0.02	-0.9162903	0.1983414	5.68E-06
T	G	0.02	-0.9162903	0.1983414	5.68E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06
G	A	0.02	-0.9162903	0.1983414	5.68E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06
A	G	0.02	-0.9162903	0.1983414	5.68E-06
C	T	0.02	-0.9162903	0.1983414	5.68E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06
G	A	0.02	-0.9162903	0.1983414	5.68E-06
G	A	0.02	-0.9162903	0.1983414	5.68E-06
A	C	0.02	-0.9162903	0.1983414	5.68E-06
G	T	0.02	-0.9162903	0.1983414	5.68E-06
G	A	0.02	-0.9162903	0.1983414	5.68E-06
T	C	0.02	-0.9162903	0.1983414	5.68E-06
G	C	0.03	-0.6617784	0.1414222	4.35E-06
G	A	0.03	-0.6617784	0.1414222	4.35E-06
A	G	0.02	-0.9162903	0.1983414	5.68E-06
G	A	0.02	-0.9162903	0.1983414	5.68E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
A	G	0.03	-0.7507713	0.1631826	6.18E-06
TG	T	0.03	-0.7180468	0.1596126	9.69E-06
C	T	0.03	-0.7180468	0.1596126	9.69E-06
C	CG	0.03	-0.7180468	0.1596126	9.69E-06
A	T	0.03	-0.7180468	0.1596126	9.69E-06
A	G	0.03	-0.7180468	0.1596126	9.69E-06
T	C	0.03	-0.7180468	0.1596126	9.69E-06
C	G	0.03	-0.7180468	0.1596126	9.69E-06
G	GC	0.03	-0.7180468	0.1596126	9.69E-06
G	A	0.03	-0.7180468	0.1596126	9.69E-06
AT	A	0.03	-0.7180468	0.1596126	9.69E-06
AG	A	0.03	-0.7180468	0.1596126	9.69E-06
A	G	0.03	-0.7180468	0.1596126	9.69E-06
C	T	0.03	-0.7180468	0.1596126	9.69E-06
T	A	0.03	-0.7180468	0.1596126	9.69E-06
C	CA	0.03	-0.7180468	0.1596126	9.69E-06
G	C	0.03	-0.7180468	0.1596126	9.69E-06
A	C	0.03	-0.7180468	0.1596126	9.69E-06
C	T	0.03	-0.7180468	0.1596126	9.69E-06
A	G	0.03	-0.7180468	0.1596126	9.69E-06
T	C	0.03	-0.7180468	0.1596126	9.69E-06
T	A	0.03	-0.7180468	0.1596126	9.69E-06

A	G	0.03	-0.7180468	0.1596126	9.69E-06
C	T	0.03	-0.7180468	0.1596126	9.69E-06
C	A	0.02	-0.919096	0.200505	6.66E-06
A	G	0.02	-0.9543979	0.2097236	7.71E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
ATATT	A	0.03	-0.7507713	0.1631826	6.18E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
C	A	0.03	-0.7507713	0.1631826	6.18E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
C	T	0.03	-0.7507713	0.1631826	6.18E-06
A	G	0.03	-0.7507713	0.1631826	6.18E-06
A	G	0.03	-0.7357565	0.1544964	2.99E-06
C	T	0.12	-0.3566246	0.07764015	6.39E-06
G	A	0.26	-0.2714502	0.05584152	1.90E-06
G	A	0.01	1.177154	0.2538743	5.26E-06
G	A	0.02	0.6788437	0.1477403	6.34E-06
G	A	0.01	1.055424	0.2339721	9.19E-06
C	G	0.03	0.7572325	0.1587111	2.87E-06
A	G	0.03	0.7905409	0.1607509	1.46E-06
T	C	0.02	0.7987867	0.177562	9.69E-06
T	C	0.02	0.7987867	0.177562	9.69E-06
G	A	0.02	0.7987867	0.177562	9.69E-06
A	C	0.01	0.9827255	0.2143343	6.63E-06
A	T	0.01	1.170361	0.259114	8.95E-06
T	C	0.13	0.3357885	0.07365423	7.44E-06
G	C	0.15	0.3192981	0.07036525	8.17E-06
AGTGT	A	0.14	0.3565457	0.07479864	2.93E-06
A	G	0.16	0.3244748	0.0706909	6.48E-06
C	T	0.03	0.6725045	0.148858	8.92E-06
A	G	0.06	0.4514591	0.09914374	7.62E-06
A	G	0.06	0.4514591	0.09914374	7.62E-06
C	T	0.01	1.157335	0.2528639	6.87E-06
A	GGGATGAGTTACAC/	0.05	0.5485071	0.119934	6.98E-06
T	C	0.02	0.78662	0.168522	4.58E-06
G	A	0.02	0.78662	0.168522	4.58E-06
G	C	0.02	0.78662	0.168522	4.58E-06
T	C	0.03	0.7617647	0.1664387	6.87E-06
T	C	0.03	0.7617647	0.1664387	6.87E-06
G	A	0.02	0.8150527	0.1736309	4.07E-06
C	A	0.01	1.1674	0.2576543	8.42E-06
T	TTCA	0.47	-0.2321482	0.04867794	2.89E-06
T	A	0.01	1.046664	0.2176166	2.40E-06
C	A	0.44	0.2276896	0.04700807	2.05E-06
C	T	0.12	0.3627003	0.07787943	4.80E-06
G	A	0.38	-0.2291248	0.05100644	9.98E-06
G	A	0.4	0.2984959	0.0530656	4.50E-08
C	G	0.4	0.2984959	0.0530656	4.50E-08
C	T	0.02	0.902258	0.1863935	2.08E-06
C	T	0.05	0.5725943	0.1152921	1.16E-06

C	CTG	0.16	0.3775055	0.07723312	1.67E-06
A	AT	0.16	0.3246022	0.07112827	7.29E-06
C	T	0.28	-0.26486	0.05804539	7.31E-06
C	T	0.28	-0.262718	0.05585608	3.90E-06
TA	T	0.01	1.125526	0.245594	6.69E-06
ACTAT	A	0.17	0.3054724	0.06618697	5.79E-06
T	C	0.01	1.147634	0.2250306	6.14E-07
T	G	0.01	1.221661	0.2178158	4.89E-08
G	T	0.01	1.221661	0.2178158	4.89E-08
GA	G	0.01	1.221661	0.2178158	4.89E-08
T	C	0.01	1.221661	0.2178158	4.89E-08
A	G	0.02	1.001069	0.2068028	2.08E-06
G	T	0.02	0.9070476	0.197942	6.70E-06
A	G	0.02	1.0683	0.2051276	3.64E-07
A	C	0.02	0.9070476	0.197942	6.70E-06
G	A	0.02	0.9084246	0.2021877	9.94E-06
C	T	0.02	0.9084246	0.2021877	9.94E-06
G	A	0.4	0.1909604	0.0322247	9.87E-09
C	G	0.4	0.1909604	0.0322247	9.87E-09
A	T	0.04	0.4686054	0.07597211	2.98E-09
T	G	0.04	0.4601012	0.07625864	6.13E-09
C	T	0.04	0.4601012	0.07625864	6.13E-09
C	A	0.04	0.4601012	0.07625864	6.13E-09
G	A	0.04	0.4601012	0.07625864	6.13E-09
C	T	0.05	0.3540607	0.05909482	6.55E-09
T	G	0.01	0.8219922	0.1308491	1.33E-09
G	T	0.01	0.8219922	0.1308491	1.33E-09
GA	G	0.01	0.8219922	0.1308491	1.33E-09
T	C	0.01	0.8219922	0.1308491	1.33E-09
C	T	0.01	1.019786	0.1719851	9.07E-09
T	G	0.01	1.019786	0.1719851	9.07E-09
A	G	0.02	0.8577851	0.137469	1.68E-09
G	A	0.4	0.2472438	0.04163413	8.64E-09
C	G	0.4	0.2472438	0.04163413	8.64E-09
A	T	0.04	0.4642595	0.07734924	6.31E-09
T	G	0.04	0.4529793	0.07637309	9.23E-09
C	T	0.04	0.4529793	0.07637309	9.23E-09
C	A	0.04	0.4529793	0.07637309	9.23E-09
G	A	0.04	0.4529793	0.07637309	9.23E-09
A	G	0.44	-0.2238465	0.03715903	5.70E-09
C	T	0.41	-0.2347178	0.03858254	4.14E-09
C	T	0.38	-0.2328494	0.03933495	9.95E-09
C	G	0.4	-0.2504115	0.03819951	3.02E-10
C	T	0.38	-0.2334646	0.03924666	8.53E-09
C	CA	0.01	0.9872657	0.1620901	4.58E-09
T	C	0.02	0.5829513	0.0969445	5.82E-09
A	T	0.04	0.43272	0.07201427	5.96E-09
T	C	0.02	0.5608364	0.09266096	6.07E-09
T	C	0.23	-0.2308342	0.03777289	3.43E-09
T	C	0.23	-0.2270229	0.03747876	4.59E-09

C	T	0.23	-0.2299397	0.03779471	3.98E-09
G	A	0.4	0.1605759	0.02661294	5.29E-09
C	G	0.4	0.1605759	0.02661294	5.29E-09
G	A	0.4	0.1811888	0.02826919	6.54E-10
C	G	0.4	0.1811888	0.02826919	6.54E-10
T	C	0.02	1.127777	0.1872364	6.80E-09
A	G	0.02	0.6279162	0.0997813	1.39E-09
T	C	0.01	0.8155957	0.1337616	4.02E-09
G	A	0.4	0.2020322	0.03344358	5.31E-09
C	G	0.4	0.2020322	0.03344358	5.31E-09
T	G	0.25	-0.1925813	0.03225407	8.92E-09
T	G	0.01	0.8179541	0.1345977	4.92E-09
G	T	0.01	0.8179541	0.1345977	4.92E-09
GA	G	0.01	0.8179541	0.1345977	4.92E-09
T	C	0.01	0.8179541	0.1345977	4.92E-09
G	A	0.01	0.7734417	0.1300368	9.08E-09
A	T	0.04	0.4175157	0.068594	3.96E-09
A	T	0.02	0.5643628	0.09310757	4.49E-09
A	G	0.02	0.5643628	0.09310757	4.49E-09
G	A	0.4	0.1755504	0.02910417	5.24E-09
C	G	0.4	0.1755504	0.02910417	5.24E-09
G	A	0.15	0.2575964	0.04277526	5.52E-09
G	A	0.15	0.2547569	0.04276044	7.81E-09
A	G	0.15	0.263282	0.04275333	2.63E-09
A	G	0.15	0.2680907	0.04299607	1.72E-09
A	G	0.16	0.2592996	0.04166384	1.84E-09
T	C	0.17	0.247644	0.04153857	7.64E-09
G	A	0.17	0.247644	0.04153857	7.64E-09
C	T	0.17	0.247644	0.04153857	7.64E-09
G	C	0.16	0.2515657	0.04183483	5.79E-09
A	C	0.17	0.247644	0.04153857	7.64E-09
G	A	0.4	0.2008305	0.03167431	9.60E-10
C	G	0.4	0.2008305	0.03167431	9.60E-10
T	TG	0.01	-1.101795	0.2200864	9.59E-07
T	G	0.02	-1.029222	0.2099774	1.57E-06
T	TTGTGTGTGTG	0.01	-1.100759	0.2325185	3.39E-06
C	T	0.02	-0.9883332	0.2133853	5.38E-06
T	G	0.02	-0.9617366	0.2054136	4.29E-06
G	GAGGAAGGA	0.09	0.4115622	0.08626315	2.87E-06
TGATA	T	0.02	-0.8549634	0.1828038	4.39E-06
A	G	0.04	-0.6509579	0.1238631	2.88E-07
A	T	0.26	0.3051504	0.0597058	5.82E-07
C	T	0.3	0.2599686	0.05692115	7.17E-06
TA	T	0.29	0.2598024	0.05772975	9.61E-06
C	T	0.36	0.270257	0.05111683	2.47E-07
G	A	0.3	0.2576417	0.05676516	8.12E-06
T	TG	0.01	-1.011775	0.2184825	5.40E-06
A	G	0.03	-0.7531157	0.1566279	2.41E-06
T	C	0.02	-0.8616863	0.1827914	3.71E-06
T	C	0.02	-1.070246	0.2171399	1.38E-06

C	T	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5237675	0.1139446	6.29E-06
GAGAT	G	0.05	-0.5125019	0.1134181	8.87E-06
T	TTAA	0.05	-0.5125019	0.1134181	8.87E-06
T	A	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5159457	0.1143673	9.16E-06
A	T	0.05	-0.5125019	0.1134181	8.87E-06
T	C	0.05	-0.5125019	0.1134181	8.87E-06
T	G	0.05	-0.5237675	0.1139446	6.29E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
T	C	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
G	C	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	CA	0.05	-0.5125019	0.1134181	8.87E-06
G	C	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	A	0.05	-0.5237675	0.1139446	6.29E-06
G	T	0.05	-0.5125019	0.1134181	8.87E-06
T	C	0.05	-0.5125019	0.1134181	8.87E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
T	C	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5374006	0.1145166	4.09E-06
C	T	0.05	-0.5177297	0.1145107	8.77E-06
A	G	0.05	-0.5324802	0.1155273	5.95E-06
G	C	0.05	-0.5514604	0.1176874	4.22E-06
A	T	0.04	-0.5765077	0.124803	5.68E-06
G	A	0.05	-0.5374521	0.1156954	5.06E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
A	G	0.05	-0.5125019	0.1134181	8.87E-06
C	A	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5215465	0.1139871	6.91E-06
T	A	0.05	-0.5125019	0.1134181	8.87E-06
G	A	0.05	-0.5125019	0.1134181	8.87E-06
C	T	0.05	-0.5125019	0.1134181	8.87E-06
G	C	0.05	-0.5125019	0.1134181	8.87E-06
T	C	0.05	-0.5245209	0.1139715	6.13E-06
A	C	0.48	-0.244039	0.05229797	4.61E-06

G	A	0.47	0.2502699	0.05157042	1.97E-06
G	A	0.49	0.2452557	0.05212509	3.87E-06
T	C	0.47	-0.2424385	0.05307488	7.14E-06
G	T	0.3	-0.2641296	0.0587398	9.77E-06
G	A	0.39	0.2413797	0.05280084	7.03E-06
A	G	0.49	0.2345802	0.05215982	9.74E-06
G	A	0.48	0.2367516	0.05266234	9.81E-06
A	ACTTTT	0.38	0.2450603	0.05396665	8.04E-06
G	C	0.37	0.2464456	0.05441405	8.48E-06
T	C	0.37	0.2514216	0.05441668	5.66E-06
G	A	0.37	0.245996	0.05431214	8.47E-06
G	A	0.37	0.2538409	0.05417621	4.22E-06
G	A	0.37	0.2466982	0.05421638	7.72E-06
T	C	0.37	0.245772	0.0545145	9.28E-06
G	T	0.1	-0.3894759	0.08576527	8.04E-06
T	G	0.39	0.2482331	0.05364198	5.48E-06
C	T	0.26	-0.3043965	0.05945687	5.58E-07
A	G	0.23	-0.2910499	0.06389889	7.57E-06
G	A	0.01	-1.076744	0.2275493	3.42E-06
A	C	0.01	-1.168244	0.2390345	1.68E-06
G	A	0.01	-1.168244	0.2390345	1.68E-06
T	C	0.01	-1.159409	0.2426166	2.77E-06
C	CT	0.01	-1.159409	0.2426166	2.77E-06
T	G	0.03	-0.7916367	0.1702166	4.94E-06
G	T	0.21	-0.3031861	0.06551276	5.47E-06
G	A	0.02	-1.06924	0.2190976	1.73E-06
CGTGTGTGT	C	0.01	-0.9978521	0.2206985	8.77E-06
TGATAGATAGATA	T	0.22	0.3367743	0.06567623	5.36E-07
G	A	0.02	-0.9475287	0.2094321	8.66E-06
CT	C	0.09	-0.4116226	0.09032141	7.48E-06
A	G	0.13	-0.4112415	0.08193231	9.01E-07
C	A	0.13	-0.3935766	0.08192576	2.46E-06
A	G	0.13	-0.3989761	0.08162551	1.67E-06
C	G	0.13	-0.3860044	0.08236429	4.20E-06
C	A	0.13	-0.4091066	0.08158226	9.21E-07
T	C	0.13	-0.3968255	0.08140707	1.78E-06
A	G	0.13	-0.3793679	0.07993842	3.22E-06
G	A	0.13	-0.420422	0.08076204	3.68E-07
T	TCTTA	0.14	-0.3574866	0.07772003	6.20E-06
C	CTGT	0.14	-0.369711	0.07711747	2.58E-06
G	A	0.13	-0.418893	0.08165296	5.30E-07
T	C	0.13	-0.418893	0.08165296	5.30E-07
T	C	0.13	-0.3974979	0.08000643	1.15E-06
C	G	0.13	-0.4053652	0.0814602	1.10E-06
C	G	0.13	-0.4097413	0.08169298	9.17E-07
C	T	0.13	-0.4147438	0.08094125	5.46E-07
T	C	0.13	-0.4162272	0.08243959	7.83E-07
A	G	0.13	-0.3909286	0.08173043	2.71E-06
C	A	0.12	-0.3814378	0.0832542	6.72E-06
T	C	0.14	-0.3660175	0.07916642	5.58E-06

C	T	0.23	-0.2871072	0.06382022	9.68E-06
GGT	G	0.05	-0.5913716	0.1271106	4.90E-06
C	AAAATAAATAAATAA	0.03	-0.6917682	0.1517956	7.49E-06
TAG	T	0.03	0.7403077	0.1638325	8.87E-06
G	A	0.04	-0.6549081	0.1372974	2.88E-06
C	T	0.22	-0.2795178	0.06110593	6.94E-06
A	AGGAAGGAAG	0.41	0.2731134	0.05413085	7.96E-07
TCAATATCCCATCTTAC	G	0.11	-0.4067335	0.08846178	6.25E-06
G	A	0.08	-0.4302273	0.09358682	6.28E-06
A	G	0.03	-0.7091472	0.153726	5.84E-06
G	T	0.03	-0.7091472	0.153726	5.84E-06
G	A	0.03	-0.7091472	0.153726	5.84E-06
A	G	0.02	-0.8620922	0.1796242	2.52E-06
C	T	0.02	-0.894618	0.1766444	7.27E-07
G	A	0.02	-0.894618	0.1766444	7.27E-07
G	T	0.03	-0.7369774	0.1518712	1.97E-06
G	T	0.03	-0.6994991	0.1553652	9.53E-06
A	G	0.03	-0.7369774	0.1518712	1.97E-06
G	A	0.02	-0.894618	0.1766444	7.27E-07
A	G	0.03	-0.6827551	0.1477855	5.67E-06
C	G	0.03	-0.7440711	0.1501013	1.21E-06
T	A	0.03	-0.7402792	0.1485477	1.07E-06
A	C	0.02	-0.894618	0.1766444	7.27E-07
T	A	0.03	-0.7402792	0.1485477	1.07E-06
G	A	0.03	-0.7402792	0.1485477	1.07E-06
A	G	0.02	-0.894618	0.1766444	7.27E-07
A	T	0.02	-0.8929949	0.1816385	1.46E-06
G	A	0.02	-0.8258318	0.1737303	3.10E-06
C	T	0.02	-0.9076433	0.2008069	8.82E-06
C	CT	0.01	-0.953051	0.1987022	2.55E-06
G	GACACACAC	0.02	-0.8276335	0.17972	6.05E-06
C	CT	0.05	-0.5874821	0.126898	5.43E-06
C	CT	0.22	-0.3045286	0.06720476	8.39E-06
G	A	0.24	-0.3022617	0.06141412	1.43E-06
T	C	0.02	-0.9359514	0.1921357	1.81E-06
A	G	0.29	-0.2939152	0.05805621	7.33E-07
C	T	0.21	-0.3082267	0.06774621	7.74E-06
A	G	0.49	0.2400348	0.05262312	7.35E-06
T	C	0.49	0.2435263	0.05260976	5.45E-06
C	CT	0.39	0.2424188	0.05295178	6.83E-06
G	A	0.03	-0.738124	0.161272	6.86E-06
A	T	0.03	-0.738124	0.161272	6.86E-06
C	T	0.03	-0.738124	0.161272	6.86E-06
C	T	0.02	-0.7987723	0.1767057	8.81E-06
CCA	C	0.03	-0.6598665	0.1440205	6.72E-06
T	A	0.03	-0.7713095	0.1622795	3.11E-06
T	G	0.05	-0.5822945	0.1261014	5.73E-06
AGAGCCTTT	A	0.16	-0.3309858	0.07189061	6.08E-06
C	A	0.08	-0.4712691	0.09548729	1.34E-06
C	CGT	0.07	-0.4864657	0.1038025	4.21E-06

C	T	0.09	-0.4338776	0.09584017	8.55E-06
A	G	0.13	-0.3619153	0.07735577	4.36E-06
T	C	0.13	-0.3541084	0.07728505	6.71E-06
A	T	0.13	-0.3566374	0.07738054	5.95E-06
G	T	0.07	-0.5118991	0.1050332	1.79E-06
GTCT	G	0.01	-1.08509	0.2330564	4.83E-06
T	C	0.01	-1.08509	0.2330564	4.83E-06
T	G	0.01	-1.164338	0.2565345	8.12E-06
T	C	0.01	-1.055635	0.2242983	3.84E-06
G	A	0.34	-0.2504478	0.05447072	6.25E-06
A	G	0.11	-0.3761376	0.08304977	8.48E-06
T	A	0.02	-0.7769851	0.1716496	8.57E-06
A	G	0.06	-0.5639656	0.1159486	1.87E-06
C	A	0.17	-0.3235221	0.06966247	5.09E-06
C	A	0.17	-0.3185762	0.06974763	7.15E-06
A	G	0.17	-0.3177168	0.06980185	7.67E-06
G	A	0.16	-0.317257	0.06995352	8.25E-06
G	C	0.17	-0.3165652	0.06986672	8.40E-06
A	G	0.17	-0.3165652	0.06986672	8.40E-06
T	A	0.17	-0.3165652	0.06986672	8.40E-06
G	A	0.17	-0.3165652	0.06986672	8.40E-06
T	C	0.17	-0.3165652	0.06986672	8.40E-06
T	C	0.17	-0.3165652	0.06986672	8.40E-06
T	C	0.17	-0.3165652	0.06986672	8.40E-06
T	C	0.17	-0.3165652	0.06986672	8.40E-06
C	T	0.02	-0.3327776	0.05542548	6.09E-09
G	A	0.02	-0.3327776	0.05542548	6.09E-09
G	A	0.02	-0.3327776	0.05542548	6.09E-09
A	C	0.02	-0.3327776	0.05542548	6.09E-09
A	G	0.02	-0.3327776	0.05542548	6.09E-09
C	T	0.36	0.1586021	0.02600559	3.72E-09
G	A	0.02	-0.720688	0.1215	8.98E-09
C	T	0.01	-0.8297636	0.140081	9.63E-09
G	A	0.02	-0.6320587	0.1036417	4.68E-09
A	T	0.02	-0.6320587	0.1036417	4.68E-09
C	T	0.02	-0.6320587	0.1036417	4.68E-09
G	A	0.1	0.3441021	0.05770424	7.85E-09
C	T	0.1	0.3441021	0.05770424	7.85E-09
G	A	0.45	0.2368211	0.05130177	5.75E-06
G	A	0.06	0.5272849	0.1138585	5.38E-06
G	A	0.04	0.6208893	0.1367152	8.01E-06
G	A	0.04	0.6208893	0.1367152	8.01E-06
C	T	0.06	0.5247509	0.1126466	4.76E-06
A	G	0.04	0.6149814	0.1338349	6.32E-06
GGTGTGTGTGT	G	0.02	0.9344248	0.1824266	5.49E-07
C	T	0.29	0.2618081	0.05710836	6.62E-06
A	G	0.04	0.646664	0.141357	6.91E-06
A	C	0.01	-1.009547	0.2246844	9.90E-06
G	C	0.02	-0.8074264	0.1753457	6.05E-06
G	A	0.04	0.6243932	0.1385095	9.28E-06

CGGATGGATGGAT	C	0.22	-0.2949534	0.06288738	4.12E-06
GGGGCAGC	G	0.03	0.6840045	0.1486518	6.14E-06
A	G	0.32	-0.255	0.05596083	7.48E-06
C	A	0.45	0.2447663	0.0528883	5.45E-06
G	C	0.45	0.2452397	0.05294742	5.36E-06
C	A	0.45	0.2513421	0.05291926	3.15E-06
C	T	0.45	0.2508444	0.05285918	3.21E-06
G	A	0.45	0.2465939	0.05297845	4.84E-06
G	A	0.45	0.2460891	0.05279776	4.70E-06
G	A	0.45	0.2547058	0.05290904	2.35E-06
A	G	0.45	0.2442265	0.05285061	5.63E-06
G	A	0.45	0.2425653	0.05300017	6.85E-06
T	C	0.45	0.2438062	0.05303741	6.27E-06
C	T	0.45	0.2448596	0.05298648	5.62E-06
C	G	0.46	0.2484282	0.05314822	4.43E-06
A	G	0.11	-0.4549475	0.0881532	4.55E-07
C	T	0.11	-0.4188964	0.08790887	2.93E-06
G	A	0.11	-0.4364826	0.08628452	7.44E-07
G	A	0.11	-0.4348376	0.0862369	8.05E-07
G	C	0.11	-0.4437325	0.08566005	4.15E-07
C	G	0.11	-0.4369306	0.08790022	1.13E-06
T	C	0.1	-0.4349403	0.08928314	1.80E-06
C	T	0.13	-0.4266712	0.07808619	1.01E-07
C	T	0.12	-0.4120918	0.08031442	5.26E-07
AT	A	0.1	-0.3922992	0.08616674	7.62E-06
T	C	0.1	-0.3890393	0.08582263	8.31E-06
A	G	0.1	-0.3890393	0.08582263	8.31E-06
CAT	C	0.02	-0.9559518	0.2051906	4.75E-06
A	AAC	0.08	-0.4942821	0.1003215	1.39E-06
T	TTTTATTTTA	0.01	1.039877	0.2242057	5.21E-06
A	C	0.09	-0.3967286	0.08385456	3.43E-06
A	AAAC	0.25	-0.2932823	0.06421879	7.16E-06
T	C	0.24	0.2800728	0.06085894	6.12E-06
T	C	0.11	-0.3713234	0.08133305	7.20E-06
C	G	0.29	-0.235027	0.0517589	8.03E-06
T	TGC	0.01	0.96073	0.2085288	5.98E-06
G	T	0.04	-0.7045866	0.1434115	1.48E-06
G	A	0.24	-0.2774279	0.05955178	4.76E-06
T	C	0.13	-0.3584295	0.0785717	7.32E-06
C	A	0.19	-0.3019253	0.0667587	8.70E-06
A	G	0.02	0.9993596	0.209373	2.83E-06
TCCTGGGCGTAAATG/	A	0.07	-0.4719601	0.1032669	7.05E-06
C	A	0.01	1.108081	0.2461232	9.52E-06
G	C	0.04	0.5779385	0.1258444	6.39E-06
T	C	0.04	0.5803706	0.1218775	2.98E-06
A	T	0.04	0.5892174	0.1232958	2.76E-06
C	A	0.04	0.5892174	0.1232958	2.76E-06
G	A	0.04	0.5892174	0.1232958	2.76E-06
C	T	0.04	0.5892174	0.1232958	2.76E-06
G	A	0.04	0.5892174	0.1232958	2.76E-06

A	G	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5892174	0.1232958	2.76E-06
TC	T	0.04	0.5719486	0.1243711	6.21E-06
C	T	0.04	0.5745299	0.1242515	5.55E-06
C	A	0.04	0.5745299	0.1242515	5.55E-06
C	G	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5734678	0.1225992	4.37E-06
T	A	0.04	0.5892174	0.1232958	2.76E-06
T	C	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5892174	0.1232958	2.76E-06
G	A	0.04	0.5892174	0.1232958	2.76E-06
T	C	0.04	0.5892174	0.1232958	2.76E-06
C	A	0.04	0.5892174	0.1232958	2.76E-06
T	TAACAA	0.04	0.5719486	0.1243711	6.21E-06
C	A	0.04	0.5892174	0.1232958	2.76E-06
C	T	0.04	0.5892174	0.1232958	2.76E-06
A	T	0.04	0.5892174	0.1232958	2.76E-06
C	T	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5892174	0.1232958	2.76E-06
T	G	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5892174	0.1232958	2.76E-06
A	G	0.04	0.5892174	0.1232958	2.76E-06
G	A	0.04	0.5892174	0.1232958	2.76E-06
C	CT	0.04	0.556257	0.1236616	9.68E-06
G	A	0.07	0.4671902	0.1028541	7.98E-06
C	T	0.07	0.4781876	0.1023489	4.47E-06
G	A	0.07	0.4781876	0.1023489	4.47E-06
C	T	0.04	0.6040901	0.1271215	3.11E-06
C	T	0.02	0.8732042	0.1853772	3.76E-06
T	A	0.02	0.8547052	0.1886911	8.43E-06
A	G	0.02	0.9385379	0.1946506	2.26E-06
A	G	0.01	1.305792	0.2402412	1.17E-07
A	G	0.02	0.8394485	0.1808391	5.12E-06
C	A	0.02	0.8385963	0.1841315	7.57E-06
C	CG	0.1	-0.3823779	0.08466922	8.95E-06
G	A	0.12	0.4037966	0.08061072	9.42E-07
C	T	0.12	0.425979	0.07898154	1.45E-07
A	G	0.12	0.4140728	0.08002417	4.26E-07
T	C	0.05	-0.5807834	0.1291976	9.80E-06
G	C	0.02	0.8396675	0.1753462	2.64E-06
G	C	0.24	-0.2924994	0.06133622	2.89E-06
G	C	0.24	-0.3015695	0.0615822	1.60E-06
C	T	0.12	0.2422049	0.04094729	9.73E-09
C	A	0.01	0.8653855	0.1420814	3.77E-09
G	C	0.06	0.127594	0.02119086	5.53E-09
C	T	0.12	0.2786446	0.04646806	6.30E-09
C	T	0.12	0.2820582	0.04766253	9.59E-09
C	T	0.12	0.2459225	0.03976625	2.26E-09
A	G	0.12	0.2411776	0.04032119	6.82E-09
G	A	0.12	0.2778662	0.0462656	6.05E-09

C	T	0.12	0.2823711	0.04535556	1.83E-09
A	G	0.12	0.2791885	0.0459518	4.15E-09
T	A	0.4	0.1840358	0.02944597	1.57E-09
C	T	0.41	-0.2942575	0.04954805	8.92E-09
C	T	0.12	0.36444	0.0584691	1.75E-09
A	G	0.12	0.3536572	0.05932673	7.70E-09
G	T	0.04	-0.7210695	0.1202361	6.58E-09
C	A	0.01	0.8073252	0.1284511	1.30E-09
G	A	0.12	0.2509107	0.04240788	9.66E-09
C	T	0.12	0.2484926	0.04161783	7.23E-09
C	T	0.12	0.3041946	0.05078873	6.59E-09
C	T	0.12	0.2657541	0.0435746	3.61E-09
A	G	0.04	0.4679001	0.07852477	9.88E-09
C	T	0.13	-0.2678698	0.0443576	5.08E-09
C	A	0.01	-1.18473	0.1956256	5.28E-09
A	C	0.01	-1.18473	0.1956256	5.28E-09
G	A	0.01	-1.18473	0.1956256	5.28E-09
A	G	0.04	-0.6432197	0.1073806	6.83E-09
C	T	0.13	-0.2314106	0.03829273	4.94E-09
G	A	0.12	0.2747976	0.04474548	2.96E-09
C	T	0.12	0.2804156	0.04373887	6.64E-10
A	G	0.12	0.2793721	0.04439741	1.29E-09
G	A	0.12	0.3287905	0.05401669	3.87E-09
C	T	0.12	0.3302079	0.05290378	1.65E-09
A	G	0.12	0.326738	0.05367125	3.85E-09
C	T	0.12	0.2974776	0.04874309	3.69E-09
A	G	0.12	0.2930104	0.04944037	9.52E-09
G	A	0.12	0.3186631	0.04754026	1.22E-10
C	T	0.12	0.320049	0.0466362	4.79E-11
A	G	0.12	0.3170373	0.04724263	1.16E-10
CA	C	0.09	-0.3615853	0.05949782	4.39E-09
A	G	0.31	0.2379257	0.0401151	9.56E-09
T	G	0.31	0.2356981	0.03977115	9.80E-09
A	G	0.26	0.2601909	0.04181044	1.98E-09
AT	A	0.02	-0.6843789	0.1147131	9.33E-09
G	T	0.01	-0.5904705	0.09890308	7.58E-09
CT	C	0.06	0.3400894	0.05554074	3.32E-09
A	G	0.05	0.3530995	0.05959483	9.63E-09
G	T	0.03	0.4295479	0.07141813	5.97E-09
C	G	0.03	0.6765268	0.1140354	9.04E-09
T	A	0.01	0.8803172	0.147349	7.54E-09
G	A	0.01	0.8947179	0.1412737	1.07E-09
C	T	0.01	0.2180498	0.03417338	7.65E-10
G	A	0.01	-0.4039227	0.06604548	4.19E-09
T	C	0.03	0.2958321	0.04937002	8.04E-09
C	G	0.03	0.2958321	0.04937002	8.04E-09
A	G	0.03	0.2958321	0.04937002	8.04E-09
G	A	0.04	-0.3809451	0.06320288	5.72E-09
A	C	0.01	-0.6156361	0.1027557	6.94E-09
C	G	0.02	-0.5622204	0.08426325	1.60E-10

C	G	0.02	-0.5622204	0.08426325	1.60E-10
A	G	0.02	-0.5622204	0.08426325	1.60E-10
C	T	0.02	-0.5082668	0.08056464	1.24E-09
C	T	0.02	-0.5285144	0.08277999	8.12E-10
C	T	0.02	-0.5285144	0.08277999	8.12E-10
T	C	0.01	-0.6382582	0.1056862	5.37E-09
T	G	0.01	-0.7033247	0.1017925	4.07E-11
G	T	0.01	-0.7033247	0.1017925	4.07E-11
GA	G	0.01	-0.7033247	0.1017925	4.07E-11
T	C	0.01	-0.7033247	0.1017925	4.07E-11
A	G	0.02	-0.5739545	0.09666691	9.24E-09
A	G	0.02	-0.6210007	0.0957252	4.57E-10
C	T	0.09	-0.1454188	0.02453348	9.12E-09
G	A	0.12	-0.124411	0.02095067	8.61E-09
T	C	0.01	-0.7247995	0.1196807	5.29E-09
A	G	0.01	-0.6774843	0.1116753	4.62E-09
TA	T	0.01	-0.4995348	0.07507784	1.61E-10
C	G	0.17	-0.1265776	0.02136442	9.36E-09
C	T	0.01	0.2575929	0.03618248	1.05E-11
C	G	0.01	0.2186429	0.03285723	1.62E-10
C	A	0.02	0.2982619	0.04887733	4.51E-09
C	T	0.02	0.2982619	0.04887733	4.51E-09
G	A	0.02	0.2982619	0.04887733	4.51E-09
T	C	0.02	0.2982619	0.04887733	4.51E-09
T	C	0.03	0.2945454	0.04804794	3.89E-09
A	G	0.02	0.2982619	0.04887733	4.51E-09
C	G	0.03	0.2945454	0.04804794	3.89E-09
A	G	0.03	0.2945454	0.04804794	3.89E-09
T	C	0.01	-0.6879029	0.115201	7.30E-09
G	A	0.02	0.3629646	0.06011089	5.02E-09
T	C	0.02	-0.5876138	0.09862675	8.28E-09
A	G	0.02	-0.5876138	0.09862675	8.28E-09
C	G	0.02	-0.5425195	0.08666529	1.62E-09
C	G	0.02	-0.5425195	0.08666529	1.62E-09
A	G	0.02	-0.5425195	0.08666529	1.62E-09
T	G	0.01	-0.633901	0.1068324	9.43E-09
G	T	0.01	-0.633901	0.1068324	9.43E-09
GA	G	0.01	-0.633901	0.1068324	9.43E-09
T	C	0.01	-0.633901	0.1068324	9.43E-09
G	C	0.15	0.1366484	0.02309621	9.92E-09
A	C	0.13	0.1187425	0.02001167	8.82E-09
C	A	0.13	0.1187425	0.02001167	8.82E-09
T	A	0.13	0.1187425	0.02001167	8.82E-09
G	A	0.13	0.1187425	0.02001167	8.82E-09
A	T	0.13	0.1187425	0.02001167	8.82E-09
A	G	0.13	0.1187425	0.02001167	8.82E-09
C	T	0.13	0.1187425	0.02001167	8.82E-09
T	C	0.13	0.1210699	0.02000268	4.65E-09
CA	C	0.13	0.1248484	0.02021232	2.36E-09
C	T	0.09	-0.1410262	0.02345556	5.77E-09

A	G	0.01	-0.6762817	0.1114697	4.61E-09
C	G	0.03	0.4642041	0.07745726	6.72E-09
T	A	0.01	0.7453013	0.1260128	9.76E-09
G	A	0.01	-0.500569	0.08060309	1.99E-09
C	T	0.01	-0.500569	0.08060309	1.99E-09
A	T	0.27	0.1213429	0.02026145	7.45E-09
AT	A	0.32	0.1167105	0.01883871	2.44E-09
A	G	0.02	-0.8022135	0.1343121	8.12E-09
C	CTCTG	0.01	0.7072345	0.1180074	7.23E-09
T	A	0.02	0.5234453	0.08795851	9.03E-09
C	T	0.01	0.8259453	0.1225749	1.19E-10
T	C	0.23	-0.1624945	0.02709624	7.07E-09
C	A	0.03	-0.5235693	0.08570986	3.98E-09
C	A	0.01	-1.002699	0.1645987	5.05E-09
C	T	0.02	-0.924493	0.1411913	3.73E-10
G	A	0.02	-0.7925718	0.1333715	9.89E-09
C	G	0.02	0.5220936	0.0854228	4.02E-09
A	G	0.02	0.6530588	0.1005168	4.92E-10
C	T	0.14	-0.3674112	0.07700971	2.86E-06
C	T	0.18	0.2918259	0.06472447	9.25E-06
A	AT	0.32	0.2484622	0.05496904	8.80E-06
T	C	0.31	0.2559145	0.05595161	6.94E-06
A	AC	0.31	0.2509028	0.05566672	9.31E-06
T	C	0.06	0.5562835	0.1085952	5.48E-07
C	T	0.23	0.2852864	0.06238596	6.97E-06
G	A	0.1	-0.4037324	0.0877662	6.18E-06
C	T	0.12	-0.4049029	0.08038974	8.27E-07
T	C	0.33	0.2443504	0.05310729	6.15E-06
C	A	0.02	-0.9353916	0.1820537	5.09E-07
C	CA	0.04	-0.6640879	0.1371791	2.07E-06
G	A	0.41	-0.244151	0.05217636	4.33E-06
CG	C	0.36	-0.2402641	0.053052	8.47E-06
C	A	0.38	-0.2536713	0.05278983	2.44E-06
G	C	0.41	-0.2525142	0.0515104	1.56E-06
T	C	0.43	-0.2458506	0.05203048	3.52E-06
T	C	0.43	-0.2484149	0.05209503	2.89E-06
G	T	0.43	-0.2375426	0.05216545	7.59E-06
G	T	0.37	0.2399967	0.05280866	7.90E-06
A	G	0.01	1.006325	0.2216559	8.06E-06
C	A	0.1	0.4118837	0.08882062	5.24E-06
G	A	0.21	-0.2917453	0.06451335	8.72E-06
GGAAGGGAAGGGAA	G	0.03	-0.704668	0.154119	6.99E-06
CA	C	0.07	-0.4908989	0.0970245	7.42E-07
G	A	0.06	-0.4709326	0.1042129	8.84E-06
C	T	0.34	0.2511934	0.05479133	6.62E-06
C	T	0.01	-0.1965	0.03131722	1.38E-09
TTGTGTGTG	T	0.2	-0.1457566	0.02426871	5.97E-09
G	A	0.02	-0.4091607	0.06779224	5.26E-09
C	T	0.02	-0.4192066	0.06735219	1.88E-09
T	C	0.01	-0.4644322	0.07809039	8.45E-09

C	T	0.01	-0.2233533	0.034346	3.84E-10
C	T	0.01	-0.2687962	0.04410308	3.70E-09
C	T	0.01	-0.4054188	0.06694325	4.61E-09
C	G	0.02	-0.5387797	0.08663536	2.03E-09
C	G	0.02	-0.5387797	0.08663536	2.03E-09
A	G	0.02	-0.5387797	0.08663536	2.03E-09
C	T	0.02	-0.5059795	0.08259867	3.36E-09
C	T	0.02	-0.5327512	0.0847567	1.40E-09
C	T	0.02	-0.5327512	0.0847567	1.40E-09
T	G	0.01	-0.6442353	0.1043871	2.62E-09
G	T	0.01	-0.6442353	0.1043871	2.62E-09
GA	G	0.01	-0.6442353	0.1043871	2.62E-09
T	C	0.01	-0.6442353	0.1043871	2.62E-09
C	T	0.01	-0.4162381	0.07013006	8.75E-09
T	C	0.09	-0.2416207	0.04077474	9.39E-09
A	G	0.08	-0.2564531	0.04303714	7.86E-09
C	G	0.03	0.4947962	0.08313211	8.37E-09
A	G	0.02	-0.5692854	0.09570535	8.14E-09
G	A	0.02	0.7046704	0.1158993	4.00E-09
A	G	0.03	0.6014641	0.1005408	6.79E-09
C	A	0.16	0.1824948	0.03077501	9.00E-09
C	A	0.02	0.3324691	0.05409451	3.55E-09
C	T	0.02	0.3324691	0.05409451	3.55E-09
G	A	0.02	0.3324691	0.05409451	3.55E-09
T	C	0.02	0.3324691	0.05409451	3.55E-09
T	C	0.03	0.3278753	0.05321012	3.26E-09
A	G	0.02	0.3324691	0.05409451	3.55E-09
C	G	0.03	0.3278753	0.05321012	3.26E-09
A	G	0.03	0.3278753	0.05321012	3.26E-09
A	C	0.01	-0.6088719	0.1025205	9.16E-09
C	G	0.02	-0.5449695	0.08431813	5.23E-10
C	G	0.02	-0.5449695	0.08431813	5.23E-10
A	G	0.02	-0.5449695	0.08431813	5.23E-10
C	T	0.02	-0.4937903	0.0805828	3.33E-09
C	T	0.02	-0.5152623	0.08277185	1.96E-09
C	T	0.02	-0.5152623	0.08277185	1.96E-09
T	G	0.01	-0.6876105	0.1016757	9.52E-11
G	T	0.01	-0.6876105	0.1016757	9.52E-11
GA	G	0.01	-0.6876105	0.1016757	9.52E-11
T	C	0.01	-0.6876105	0.1016757	9.52E-11
A	G	0.02	-0.6212107	0.09546967	4.09E-10
G	'GTGTGTGTGTGTGTG	0.04	-0.3134953	0.04857431	5.04E-10
C	T	0.01	-0.6494239	0.1060309	3.68E-09
A	C	0.01	-0.6494239	0.1060309	3.68E-09
A	G	0.01	-0.6694257	0.1112825	6.07E-09
C	G	0.03	0.470486	0.07780316	5.03E-09
TA	T	0.01	-0.4586533	0.07350588	1.68E-09
C	T	0.14	-0.3587378	0.07847477	7.02E-06
C	A	0.01	-0.9776743	0.2172271	9.58E-06
C	CA	0.03	-0.6815609	0.146125	4.64E-06

C	T	0.07	-0.4714541	0.1046626	9.42E-06
A	C	0.01	-1.154177	0.2463102	4.21E-06
G	A	0.01	-1.059216	0.2325972	7.58E-06
A	G	0.01	-1.023784	0.2256805	8.19E-06
C	T	0.14	-0.3579604	0.07473949	2.63E-06
G	A	0.1	-0.4152745	0.09146714	8.05E-06
T	C	0.02	-0.8653006	0.1884025	6.38E-06
C	A	0.03	-0.6794456	0.1465591	5.26E-06
C	T	0.03	-0.6618734	0.1454248	7.67E-06
C	CA	0.01	-0.9591424	0.2100545	7.18E-06
G	C	0.1	-0.4264269	0.08800607	2.03E-06
AC	A	0.1	-0.4294761	0.08933793	2.42E-06
A	T	0.1	-0.4154827	0.08822318	3.78E-06
C	T	0.1	-0.4124227	0.08822658	4.43E-06
A	G	0.1	-0.3997083	0.08845932	8.86E-06
C	A	0.1	-0.4124227	0.08822658	4.43E-06
CT	C	0.1	-0.4443404	0.09022572	1.40E-06
G	T	0.1	-0.4124227	0.08822658	4.43E-06
A	G	0.1	-0.4231241	0.08780213	2.29E-06
C	T	0.1	-0.4124227	0.08822658	4.43E-06
C	G	0.13	-0.3592751	0.07843315	6.73E-06
TG	T	0.12	-0.385389	0.07980733	2.19E-06
C	A	0.12	-0.4165566	0.08023033	3.91E-07
G	A	0.12	-0.3832563	0.07992613	2.56E-06
C	T	0.02	-0.8437511	0.1575609	1.75E-07
A	AAT	0.03	-0.7262607	0.1615343	9.77E-06
C	T	0.01	-1.126763	0.2280612	1.30E-06
A	T	0.01	-1.126763	0.2280612	1.30E-06
A	G	0.01	-0.9738926	0.2097863	5.12E-06
G	A	0.01	-0.9738926	0.2097863	5.12E-06
C	T	0.01	-0.9738926	0.2097863	5.12E-06
T	C	0.01	-0.9738926	0.2097863	5.12E-06
C	G	0.01	-0.9738926	0.2097863	5.12E-06
G	A	0.02	-0.974711	0.2144839	7.90E-06
A	G	0.37	0.2715035	0.05469694	1.17E-06
A	C	0.37	0.2727758	0.0547917	1.09E-06
G	A	0.37	0.2755478	0.05478927	8.57E-07
T	C	0.37	0.2733831	0.05504816	1.15E-06
G	GTAGC	0.35	0.2858429	0.05583654	5.57E-07
G	GAT	0.37	0.268615	0.0549864	1.69E-06
C	G	0.37	0.2769113	0.05549335	1.03E-06
C	T	0.35	0.2734405	0.05606781	1.75E-06
C	T	0.33	-0.2488204	0.054684	7.71E-06
G	A	0.01	-1.030994	0.2285635	9.16E-06
A	C	0.01	-1.257344	0.2648	3.17E-06
T	C	0.03	-0.8666678	0.1703173	6.45E-07
GCA	G	0.24	-0.2715607	0.06000781	8.59E-06
T	C	0.24	-0.2723462	0.0599851	8.05E-06
CT	C	0.14	-0.3130392	0.0688222	7.76E-06
A	G	0.01	-1.061086	0.2310955	6.42E-06

G	A	0.02	-0.9871171	0.2059648	2.59E-06
G	A	0.02	-0.9871171	0.2059648	2.59E-06
C	G	0.02	-0.9871171	0.2059648	2.59E-06
A	C	0.03	-0.683151	0.1514882	9.21E-06
T	G	0.01	-1.101405	0.2348958	4.15E-06
C	A	0.01	-1.101405	0.2348958	4.15E-06
T	G	0.01	-1.101761	0.2398176	6.34E-06
A	G	0.01	-1.152928	0.2451523	3.89E-06
A	G	0.01	-1.101405	0.2348958	4.15E-06
T	TG	0.01	-1.101405	0.2348958	4.15E-06
G	A	0.01	-1.101405	0.2348958	4.15E-06
TTA	T	0.14	-0.3712229	0.07709524	2.33E-06
A	AC	0.14	-0.3684221	0.07855271	4.13E-06
C	T	0.13	-0.3600155	0.07852588	6.61E-06
C	T	0.13	-0.3739143	0.07857712	3.02E-06
T	A	0.13	-0.3665843	0.0784861	4.50E-06
T	C	0.08	0.4504816	0.09592493	4.01E-06
A	G	0.08	0.4337295	0.09636715	9.57E-06
G	C	0.02	-0.8597183	0.1894348	8.12E-06
G	A	0.07	-0.4789708	0.1051359	7.52E-06
G	A	0.3	-0.2743173	0.05904172	5.03E-06
C	T	0.3	-0.2782158	0.05901701	3.70E-06
G	T	0.3	-0.2743173	0.05904172	5.03E-06
G	A	0.3	-0.2743173	0.05904172	5.03E-06
C	T	0.3	-0.2678895	0.05871577	7.30E-06
G	A	0.3	-0.2678895	0.05871577	7.30E-06
T	C	0.3	-0.2678895	0.05871577	7.30E-06
C	CT	0.26	-0.2851117	0.06171215	5.65E-06
T	A	0.3	-0.2678895	0.05871577	7.30E-06
A	T	0.3	-0.2678895	0.05871577	7.30E-06
C	T	0.3	-0.2678895	0.05871577	7.30E-06
G	A	0.3	-0.2678895	0.05871577	7.30E-06
G	A	0.3	-0.2678895	0.05871577	7.30E-06
C	T	0.3	-0.2678895	0.05871577	7.30E-06
T	C	0.3	-0.2695426	0.05919846	7.60E-06
C	A	0.16	0.318142	0.07040264	8.84E-06
G	A	0.16	0.3214157	0.07088184	8.26E-06
T	C	0.15	0.3475654	0.07386936	3.86E-06
A	G	0.15	0.3475654	0.07386936	3.86E-06
A	C	0.17	0.3542828	0.06940913	5.98E-07
A	C	0.18	0.3461633	0.06854989	7.77E-07
G	C	0.18	0.3314113	0.06830354	1.97E-06
G	GA	0.18	0.3419048	0.06785321	8.18E-07
G	A	0.18	0.3654886	0.06763569	1.37E-07
T	C	0.18	0.3534032	0.06823141	4.16E-07
C	T	0.15	0.337792	0.07406054	7.34E-06
A	G	0.17	0.3530457	0.06910257	5.85E-07
C	G	0.18	0.3612462	0.06861077	2.74E-07
A	G	0.18	0.3519294	0.06860227	5.29E-07
T	C	0.17	0.3530457	0.06910257	5.85E-07

G	C	0.15	0.3411971	0.07441485	6.60E-06
A	G	0.15	0.3482821	0.07380594	3.62E-06
G	GAATAAATA	0.01	-1.206163	0.2528005	2.85E-06
C	T	0.02	-0.9488786	0.208037	7.34E-06
T	A	0.04	-0.5783196	0.1285835	9.71E-06
C	A	0.02	-1.040553	0.2042725	6.29E-07
C	T	0.02	-0.9919139	0.2110367	3.94E-06
G	C	0.2	-0.3080928	0.06694249	6.11E-06
T	C	0.12	-0.3960954	0.080071	1.26E-06
C	A	0.21	-0.3150049	0.06306318	1.01E-06
C	T	0.22	-0.3472115	0.06199647	5.06E-08
C	T	0.22	-0.3477762	0.06199698	4.83E-08
C	A	0.21	-0.3150049	0.06306318	1.01E-06
C	A	0.22	-0.3558641	0.06160175	2.03E-08
G	A	0.21	-0.321213	0.06297437	6.09E-07
C	T	0.22	-0.3481282	0.06195584	4.61E-08
C	T	0.21	-0.3193239	0.06296387	7.00E-07
G	A	0.21	-0.305847	0.06243169	1.58E-06
C	G	0.1	-0.4435926	0.09016976	1.44E-06
T	G	0.4	0.2612903	0.05451567	2.58E-06
C	CTGG	0.43	0.2551699	0.05352284	2.90E-06
G	A	0.45	-0.2405255	0.05332848	9.18E-06
T	G	0.46	-0.2489703	0.05329983	4.49E-06
G	C	0.46	-0.2424326	0.05320139	7.48E-06
C	T	0.28	0.2859825	0.05936715	2.31E-06
A	G	0.46	-0.2518118	0.05310782	3.27E-06
A	G	0.46	-0.248071	0.05297238	4.26E-06
G	A	0.45	-0.2417343	0.05323309	8.02E-06
C	T	0.46	-0.2397773	0.05311426	9.02E-06
C	A	0.28	0.2885182	0.05912834	1.73E-06
T	G	0.45	-0.2513214	0.05286309	3.08E-06
A	G	0.45	-0.2447754	0.05295574	5.60E-06
A	C	0.46	-0.2484876	0.05329659	4.68E-06
T	C	0.5	-0.2434479	0.05288047	6.08E-06
G	A	0.02	-0.8086366	0.179418	9.32E-06
TAG	T	0.15	0.3368698	0.07339133	6.46E-06
G	A	0.48	-0.2343182	0.05194425	9.16E-06
G	A	0.34	-0.2930201	0.0557842	2.91E-07
A	C	0.49	-0.2325783	0.05171723	9.73E-06
A	T	0.48	-0.2328645	0.05180875	9.83E-06
C	T	0.49	-0.2332306	0.05175868	9.35E-06
C	T	0.49	-0.2344915	0.05176038	8.41E-06
C	T	0.49	-0.2376384	0.0515077	5.81E-06
C	T	0.49	-0.2395446	0.05137544	4.67E-06
A	C	0.49	-0.2399154	0.05172068	5.20E-06
G	C	0.48	-0.2328645	0.05180875	9.83E-06
A	G	0.49	-0.2365757	0.05172435	6.94E-06
G	T	0.49	-0.2365757	0.05172435	6.94E-06
C	A	0.48	0.2312423	0.04934586	4.20E-06
T	C	0.5	-0.2318951	0.0512376	8.58E-06

A	T	0.49	-0.242193	0.05167519	4.19E-06
C	T	0.49	-0.2364794	0.05161974	6.72E-06
TTTCTC	T	0.45	-0.2296119	0.05046686	7.72E-06
T	G	0.33	-0.2835085	0.05633494	8.43E-07
G	T	0.33	-0.2798461	0.05649553	1.23E-06
A	C	0.02	-0.8788159	0.1951632	9.48E-06
A	T	0.02	-0.8640435	0.1893561	7.28E-06
G	GTTCTATTCTA	0.17	-0.2952377	0.06511179	8.26E-06
G	A	0.01	-1.214206	0.2331693	3.63E-07
C	T	0.01	-1.153686	0.2269472	6.61E-07
AAGAT	A	0.04	-0.6549957	0.1438051	7.55E-06
G	C	0.02	-0.869099	0.1762076	1.35E-06
G	AAGAAAGAAAGAAAC	0.01	-1.171647	0.2474113	3.36E-06
T	TTGTGTGTGTG	0.03	-0.7775492	0.148088	2.94E-07
CAA	C	0.01	-0.9877742	0.2185423	8.81E-06
G	T	0.02	-0.8535191	0.1892078	9.15E-06
C	T	0.02	-0.8535191	0.1892078	9.15E-06
AGAC	A	0.01	-1.111629	0.2404523	5.58E-06
G	A	0.07	-0.0945946	0.0158235	7.02E-09
G	A	0.11	-0.0761926	0.01286485	9.45E-09
C	G	0.01	0.4483698	0.0749608	6.84E-09
TAAATAAAATAAAAT/	T	0.02	-0.3507647	0.05212879	1.08E-10
T	A	0.04	0.4266289	0.07162068	7.81E-09
T	TC	0.01	0.7085326	0.1098958	5.24E-10
A	G	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
A	T	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
C	T	0.01	0.7085326	0.1098958	5.24E-10
C	T	0.01	0.7085326	0.1098958	5.24E-10
T	C	0.01	0.7085326	0.1098958	5.24E-10
C	G	0.01	0.7085326	0.1098958	5.24E-10
G	C	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
T	C	0.01	0.7085326	0.1098958	5.24E-10
AC	A	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
A	G	0.01	0.7085326	0.1098958	5.24E-10
C	T	0.01	0.7085326	0.1098958	5.24E-10
C	T	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7485197	0.1122793	1.50E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
G	T	0.01	0.7085326	0.1098958	5.24E-10
G	A	0.01	0.7085326	0.1098958	5.24E-10
A	G	0.01	0.7085326	0.1098958	5.24E-10
T	C	0.01	0.6620423	0.107599	2.70E-09
A	G	0.01	0.6620423	0.107599	2.70E-09
T	C	0.01	0.6620423	0.107599	2.70E-09

C	G	0.01	0.6620423	0.107599	2.70E-09
C	T	0.01	0.6620423	0.107599	2.70E-09
AG	A	0.01	0.6620423	0.107599	2.70E-09
T	A	0.01	0.6620423	0.107599	2.70E-09
A	G	0.01	0.6620423	0.107599	2.70E-09
A	G	0.02	0.7071584	0.1013724	2.45E-11
A	AT	0.01	0.6620423	0.107599	2.70E-09
A	C	0.01	-0.4931275	0.07983136	2.39E-09
C	T	0.07	-0.146744	0.02471049	8.63E-09
T	C	0.01	-0.498775	0.0812067	2.87E-09
C	CTGTG	0.06	-0.2747011	0.04565082	5.78E-09
GGTGTGTGTGTGT	G	0.01	-0.9113311	0.1435153	9.00E-10
A	G	0.01	-0.7147328	0.1138126	1.44E-09
A	G	0.01	-0.6127866	0.1022067	6.50E-09
T	A	0.01	0.7875373	0.1318287	7.10E-09
C	T	0.14	-0.3557638	0.07781692	7.01E-06
G	T	0.15	-0.3663877	0.07174239	5.91E-07
A	G	0.14	-0.3762296	0.07342423	5.44E-07
G	A	0.24	0.2622359	0.05768356	7.85E-06
G	A	0.01	-1.070027	0.2305304	5.13E-06
C	T	0.08	0.4619051	0.1012673	7.34E-06
C	T	0.08	0.5092599	0.1033322	1.38E-06
C	T	0.08	0.492998	0.1021661	2.23E-06
C	G	0.08	0.4379075	0.09736337	9.71E-06
C	CT	0.08	0.4855907	0.1026068	3.41E-06
CAT	C	0.08	0.4845627	0.1011893	2.64E-06
GA	G	0.11	-0.3801711	0.08222639	5.57E-06
G	A	0.37	0.24531	0.05348425	6.56E-06
C	T	0.37	0.24531	0.05348425	6.56E-06
T	C	0.37	0.2410055	0.05365777	9.97E-06
G	T	0.23	-0.2895924	0.0644472	9.89E-06
C	A	0.12	-0.3782329	0.07981361	3.31E-06
T	TA	0.21	-0.3230674	0.06520698	1.22E-06
A	T	0.21	-0.3008478	0.06549101	6.36E-06
A	G	0.21	-0.295316	0.06500748	7.96E-06
C	G	0.22	-0.2885224	0.06414617	9.70E-06
A	ACATTTGTAATCC	0.18	-0.3112343	0.06865759	8.31E-06
T	G	0.01	-1.241603	0.2575119	2.27E-06
G	A	0.01	-1.15643	0.2532305	7.17E-06
A	G	0.37	0.2583512	0.05431105	3.05E-06
A	C	0.37	0.2602565	0.05439969	2.69E-06
G	A	0.37	0.2607978	0.05441293	2.59E-06
T	C	0.37	0.2613846	0.05466091	2.72E-06
G	GTAGC	0.35	0.2721893	0.05546812	1.52E-06
G	GAT	0.37	0.2504779	0.05463982	6.63E-06
C	G	0.37	0.2585642	0.05514341	4.15E-06
C	T	0.35	0.2505612	0.05575112	9.85E-06
T	G	0.05	0.5388696	0.1194434	9.14E-06
TA	T	0.05	0.5388696	0.1194434	9.14E-06
A	G	0.05	0.5388696	0.1194434	9.14E-06

TA	T	0.05	0.5388696	0.1194434	9.14E-06
T	C	0.05	0.5388696	0.1194434	9.14E-06
G	T	0.05	0.5388696	0.1194434	9.14E-06
T	C	0.05	0.5388696	0.1194434	9.14E-06
G	T	0.05	0.5388696	0.1194434	9.14E-06
C	T	0.05	0.5388696	0.1194434	9.14E-06
A	G	0.02	-0.9393998	0.2016374	4.75E-06
C	T	0.02	-0.9393998	0.2016374	4.75E-06
G	A	0.02	-1.04036	0.2039369	6.07E-07
G	A	0.02	-1.04036	0.2039369	6.07E-07
C	G	0.02	-1.04036	0.2039369	6.07E-07
C	T	0.12	-0.3860345	0.0811774	3.07E-06
TTA	T	0.15	-0.3725958	0.07632927	1.72E-06
A	AC	0.14	-0.3912433	0.07761448	8.11E-07
G	C	0.23	-0.2813326	0.06198802	8.12E-06
C	T	0.13	-0.3856965	0.07760025	1.13E-06
C	T	0.13	-0.4071211	0.07757888	2.98E-07
T	A	0.13	-0.3987422	0.07750381	4.92E-07
G	T	0.12	-0.4178784	0.08055528	4.00E-07
G	A	0.07	-0.4792004	0.1044355	6.51E-06
C	A	0.16	0.3139081	0.06971926	9.51E-06
G	A	0.16	0.3183538	0.07017518	8.19E-06
T	C	0.15	0.3357822	0.07321094	6.56E-06
A	G	0.15	0.3357822	0.07321094	6.56E-06
A	C	0.17	0.3196641	0.0689484	5.26E-06
A	C	0.18	0.3070533	0.06811417	9.28E-06
G	C	0.18	0.3158995	0.06771602	4.62E-06
G	GA	0.18	0.3156063	0.06733012	4.18E-06
G	A	0.18	0.3248938	0.06724177	2.16E-06
T	C	0.18	0.3177237	0.06778728	4.19E-06
C	T	0.15	0.3347968	0.07334671	7.23E-06
A	G	0.17	0.3184287	0.06862837	5.17E-06
C	G	0.18	0.3247346	0.06816356	2.95E-06
A	G	0.18	0.3194994	0.06812684	4.13E-06
T	C	0.17	0.3184287	0.06862837	5.17E-06
G	C	0.15	0.33789	0.07369189	6.60E-06
A	G	0.15	0.3425434	0.07311254	4.22E-06
C	T	0.02	-1.003547	0.2056124	1.72E-06
A	T	0.47	-0.2179892	0.04743811	6.31E-06
C	T	0.04	-0.6043248	0.1322517	7.08E-06
C	T	0.02	-1.072118	0.2093802	5.54E-07
C	T	0.02	-0.9859435	0.2077303	3.20E-06
T	A	0.04	0.585275	0.1298392	9.29E-06
A	AT	0.02	-0.8877282	0.1847671	2.45E-06
C	A	0.15	-0.339106	0.07411155	6.89E-06
G	A	0.1	-0.3996758	0.0879905	7.98E-06
G	A	0.34	-0.2782315	0.05535045	8.67E-07
T	G	0.33	-0.2666041	0.05589661	2.88E-06
G	T	0.33	-0.2608327	0.05606749	4.90E-06

C	T	0.38	-0.2438351	0.05222093	4.53E-06
CT	C	0.37	0.2497427	0.05477849	7.41E-06
C	A	0.02	0.873316	0.1885453	5.36E-06
G	C	0.36	0.2788343	0.05483015	6.55E-07
A	T	0.02	-0.8454392	0.1877523	9.49E-06
G	A	0.01	-1.040722	0.2294936	8.25E-06
G	A	0.09	-0.4222336	0.09194017	6.39E-06
C	T	0.32	0.2389081	0.05203133	6.42E-06
A	C	0.06	-0.4812685	0.1047152	6.29E-06
A	C	0.06	-0.4678687	0.1040723	9.80E-06
CT	C	0.01	-1.165601	0.2413607	2.19E-06
T	TTGTGTGTGTG	0.03	-0.7421549	0.1472773	8.18E-07
AG	A	0.4	0.2454641	0.05291647	5.20E-06
G	A	0.39	0.2475581	0.05332974	5.12E-06
G	C	0.46	0.2302917	0.05081228	8.34E-06
CAA	C	0.01	-1.067096	0.2164475	1.37E-06
G	A	0.36	-0.2581601	0.05444869	3.27E-06
C	T	0.02	-0.8507542	0.1871452	7.85E-06
C	T	0.08	-0.444852	0.09720012	6.86E-06
C	G	0.31	0.2721983	0.05632534	2.15E-06
A	G	0.41	0.2519704	0.05300549	3.09E-06
C	T	0.38	0.2453758	0.0528105	5.03E-06
T	C	0.38	0.2376707	0.05284314	9.71E-06
A	G	0.39	0.2404526	0.0528268	7.66E-06
A	G	0.39	0.2378471	0.05272772	9.16E-06
T	C	0.38	0.2400781	0.05290572	8.14E-06
A	G	0.38	0.2534218	0.05263512	2.34E-06
T	C	0.33	0.247105	0.054457	8.15E-06
T	TCA	0.38	0.2413864	0.05273095	6.83E-06
T	G	0.38	0.2458393	0.05273607	4.69E-06
C	G	0.4	0.2458457	0.05264575	4.52E-06
T	C	0.33	0.2524618	0.05457057	5.50E-06
T	C	0.37	0.2374361	0.05255628	8.89E-06
C	T	0.01	0.949708	0.1288392	2.24E-12
T	G	0.01	0.949708	0.1288392	2.24E-12
T	TC	0.01	0.7828594	0.1115999	1.94E-11
A	G	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11
A	T	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11
C	T	0.01	0.7828594	0.1115999	1.94E-11
C	T	0.01	0.7828594	0.1115999	1.94E-11
T	C	0.01	0.7828594	0.1115999	1.94E-11
C	G	0.01	0.7828594	0.1115999	1.94E-11
G	C	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11
T	C	0.01	0.7828594	0.1115999	1.94E-11
AC	A	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11

A	G	0.01	0.7828594	0.1115999	1.94E-11
C	T	0.01	0.7828594	0.1115999	1.94E-11
C	T	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7828594	0.1115999	1.94E-11
G	A	0.01	0.7445439	0.1163896	6.94E-10
G	A	0.01	0.7828594	0.1115999	1.94E-11
G	T	0.01	0.7828594	0.1115999	1.94E-11
A	T	0.01	0.7649972	0.1261865	4.41E-09
G	A	0.01	0.7828594	0.1115999	1.94E-11
A	G	0.01	0.7828594	0.1115999	1.94E-11
T	C	0.02	0.7149571	0.1094852	3.27E-10
A	G	0.02	0.7149571	0.1094852	3.27E-10
T	C	0.02	0.7149571	0.1094852	3.27E-10
C	G	0.02	0.7149571	0.1094852	3.27E-10
C	T	0.02	0.7149571	0.1094852	3.27E-10
C	T	0.01	0.7206917	0.1188326	4.36E-09
AG	A	0.02	0.7149571	0.1094852	3.27E-10
T	A	0.02	0.7149571	0.1094852	3.27E-10
A	G	0.02	0.7149571	0.1094852	3.27E-10
A	G	0.02	0.7455854	0.1034417	6.08E-12
A	AT	0.02	0.7149571	0.1094852	3.27E-10
G	A	0.02	-0.33337	0.05620141	9.34E-09
T	A	0.02	0.6090996	0.1027218	9.00E-09
C	G	0.02	-0.5637289	0.08319618	8.85E-11
C	G	0.02	-0.5637289	0.08319618	8.85E-11
A	G	0.02	-0.5637289	0.08319618	8.85E-11
C	T	0.02	-0.5171354	0.07945203	4.06E-10
C	T	0.02	-0.5377559	0.08158204	2.54E-10
C	T	0.02	-0.5377559	0.08158204	2.54E-10
C	T	0.02	-0.4740918	0.07829551	4.93E-09
T	G	0.01	-0.6416883	0.1036488	2.36E-09
G	T	0.01	-0.6416883	0.1036488	2.36E-09
GA	G	0.01	-0.6416883	0.1036488	2.36E-09
T	C	0.01	-0.6416883	0.1036488	2.36E-09
T	C	0.01	-0.7099744	0.114578	2.49E-09
A	G	0.01	-0.6580868	0.1107454	8.97E-09
T	G	0.01	-0.7562645	0.1237444	3.42E-09
G	T	0.01	-0.7562645	0.1237444	3.42E-09
GA	G	0.01	-0.7562645	0.1237444	3.42E-09
T	C	0.01	-0.7562645	0.1237444	3.42E-09
C	T	0.05	-0.5092121	0.1098856	5.31E-06
C	T	0.01	-1.064453	0.2344886	8.07E-06
C	CA	0.01	-0.9460331	0.1853677	6.00E-07
C	T	0.15	-0.3556973	0.07552082	3.77E-06
A	ACACACACACACACA	0.01	-1.137138	0.2442923	4.83E-06
A	C	0.06	-0.5167657	0.1105975	4.46E-06
C	T	0.01	-1.310844	0.2707255	2.06E-06
G	A	0.14	0.3473073	0.0762396	7.52E-06
C	G	0.14	-0.3689598	0.08085506	7.27E-06
C	T	0.01	-1.069029	0.2313905	5.65E-06

AT	A	0.01	-0.9266839	0.1988959	4.74E-06
G	A	0.04	-0.619764	0.1345232	5.98E-06
C	G	0.01	-1.338163	0.2588846	4.37E-07
G	A	0.01	-1.338163	0.2588846	4.37E-07
G	A	0.01	-1.338163	0.2588846	4.37E-07
TACAC	T	0.07	-0.4935849	0.1042033	3.34E-06
A	T	0.01	-1.245863	0.2612796	2.89E-06
T	A	0.01	-1.245863	0.2612796	2.89E-06
C	A	0.01	-1.245863	0.2612796	2.89E-06
C	T	0.01	-1.245863	0.2612796	2.89E-06
G	A	0.01	-1.245863	0.2612796	2.89E-06
A	G	0.01	-1.245863	0.2612796	2.89E-06
C	T	0.01	-1.245863	0.2612796	2.89E-06
A	G	0.02	-0.9376357	0.2078316	9.13E-06
G	A	0.14	-0.3560103	0.07345724	2.02E-06
TTTTAAA	T	0.14	-0.3597527	0.07401754	1.89E-06
T	C	0.14	-0.3560103	0.07345724	2.02E-06
C	A	0.14	-0.3560103	0.07345724	2.02E-06
A	C	0.14	-0.3478521	0.07427227	4.25E-06
C	T	0.15	-0.4275729	0.07525796	3.33E-08
T	C	0.14	-0.3379329	0.07430469	7.78E-06
T	C	0.14	-0.3478521	0.07427227	4.25E-06
GATCT	G	0.14	-0.3516933	0.07486666	3.99E-06
G	C	0.14	-0.3478521	0.07427227	4.25E-06
C	T	0.14	-0.3478521	0.07427227	4.25E-06
G	A	0.14	-0.3478521	0.07427227	4.25E-06
T	A	0.14	-0.3478521	0.07427227	4.25E-06
C	T	0.14	-0.3478869	0.07353711	3.43E-06
T	C	0.14	-0.3478869	0.07353711	3.43E-06
C	G	0.14	-0.3478869	0.07353711	3.43E-06
A	C	0.14	-0.3478869	0.07353711	3.43E-06
G	A	0.14	-0.3478869	0.07353711	3.43E-06
G	A	0.14	-0.3478869	0.07353711	3.43E-06
C	T	0.14	-0.3425161	0.07355667	4.80E-06
A	G	0.03	-0.7587891	0.1635062	5.15E-06
C	T	0.26	-0.2612436	0.05775494	8.67E-06
CT	C	0.37	0.2731599	0.05401913	7.51E-07
C	G	0.32	0.2571257	0.05623008	6.97E-06
C	T	0.02	-0.9030215	0.1991362	8.25E-06
A	G	0.17	-0.2990985	0.0665141	9.74E-06
AG	A	0.32	-0.2531908	0.055616	7.62E-06
T	C	0.02	-1.105528	0.2059624	1.65E-07
T	C	0.46	0.24164	0.05329726	8.28E-06
A	AATACATAC	0.09	-0.4583161	0.09308894	1.41E-06
G	A	0.05	-0.5603728	0.1207803	5.18E-06
T	C	0.05	-0.5603728	0.1207803	5.18E-06
G	A	0.05	-0.5603728	0.1207803	5.18E-06
C	T	0.05	-0.5603728	0.1207803	5.18E-06
G	A	0.02	-0.9705929	0.2042619	3.12E-06
C	G	0.01	-1.081862	0.232967	5.08E-06

T	C	0.01	-1.081862	0.232967	5.08E-06
C	CA	0.09	-0.4242575	0.09445201	9.95E-06
T	A	0.21	-0.2923941	0.06398842	7.07E-06
C	CTG	0.06	0.5312926	0.1125467	3.59E-06
A	T	0.02	-0.948147	0.2073875	7.00E-06
G	C	0.02	-0.9416256	0.1970542	2.76E-06
T	G	0.26	-0.2675293	0.05948154	9.70E-06
G	A	0.28	0.2712715	0.05993632	8.57E-06
C	T	0.28	0.2734328	0.05976716	6.90E-06
T	A	0.27	0.2743592	0.06024063	7.56E-06
C	A	0.27	0.2743592	0.06024063	7.56E-06
C	G	0.11	-0.3835382	0.08331376	6.08E-06
C	T	0.38	-0.2725108	0.0553321	1.40E-06
C	T	0.02	-1.050451	0.2128268	1.33E-06
C	T	0.03	-0.7557863	0.1584588	2.87E-06
G	T	0.01	-1.14356	0.2360337	2.03E-06
C	T	0.01	-1.043351	0.2299665	8.16E-06
TTTTAA	T	0.01	-1.224054	0.2292907	1.90E-07
G	A	0.01	-1.043351	0.2299665	8.16E-06
C	T	0.04	-0.6446305	0.1398728	5.94E-06
C	T	0.04	-0.6190986	0.136244	7.91E-06
GT	G	0.12	-0.3713445	0.08255082	9.67E-06
TC	T	0.12	-0.3713445	0.08255082	9.67E-06
C	T	0.12	-0.393454	0.08274969	3.08E-06
GTTT	G	0.12	-0.4071651	0.08305822	1.56E-06
A	AT	0.11	-0.3841345	0.08354833	6.24E-06
G	T	0.11	-0.3830531	0.08465581	8.61E-06
GA	G	0.03	-0.7551768	0.1529153	1.31E-06
T	C	0.01	-1.126954	0.2382253	3.43E-06
G	A	0.01	-1.146603	0.2456714	4.57E-06
T	G	0.01	-1.146603	0.2456714	4.57E-06
G	A	0.01	-1.069119	0.231587	5.74E-06
G	C	0.24	-0.2932313	0.06038653	1.93E-06
T	C	0.22	-0.2874169	0.06242978	6.07E-06
TTG	T	0.01	-1.138298	0.2461621	5.54E-06
G	A	0.03	-0.7708716	0.167996	6.50E-06
C	A	0.01	-1.055603	0.2291144	5.98E-06
A	C	0.02	-0.9903498	0.2137275	5.31E-06
C	T	0.02	-0.9903498	0.2137275	5.31E-06
T	C	0.02	-0.9903498	0.2137275	5.31E-06
T	C	0.02	-0.9903498	0.2137275	5.31E-06
C	T	0.02	-0.9903498	0.2137275	5.31E-06
G	T	0.02	-0.9903498	0.2137275	5.31E-06
C	CACAGAAGACTGTG	0.05	-0.5588595	0.1244442	9.99E-06
TTGTGTGTG	T	0.2	0.3501081	0.06912311	7.22E-07
CTGTG	C	0.04	-0.6301676	0.1372783	6.44E-06
G	C	0.02	-0.9916209	0.2064182	2.45E-06
T	C	0.02	-0.8279327	0.1709226	2.04E-06
C	T	0.03	-0.6959176	0.1504761	5.53E-06
C	A	0.04	-0.6123806	0.1363299	9.95E-06

G	A	0.05	-0.6033076	0.1323577	7.43E-06
C	T	0.05	-0.5918728	0.1313806	9.39E-06
G	A	0.05	-0.5918728	0.1313806	9.39E-06
G	T	0.05	-0.5194389	0.115307	9.40E-06
TA	T	0.1	-0.3737611	0.08118108	6.07E-06
A	G	0.01	-1.134987	0.2307409	1.44E-06
A	C	0.05	-0.576419	0.1268114	7.86E-06
AT	A	0.12	-0.3874196	0.08525434	7.90E-06
G	A	0.12	-0.3874196	0.08525434	7.90E-06
A	AAT	0.12	-0.3874196	0.08525434	7.90E-06
T	C	0.15	-0.3522423	0.07767027	8.23E-06
A	T	0.15	-0.3522423	0.07767027	8.23E-06
G	A	0.13	-0.3633136	0.08017257	8.36E-06
T	TGGTC	0.15	-0.3623323	0.07828724	5.45E-06
G	A	0.15	-0.3556262	0.07759894	6.66E-06
C	A	0.15	-0.3556262	0.07759894	6.66E-06
A	AT	0.15	-0.3521787	0.07777785	8.49E-06
C	ACAGGGAGAAAATTT	0.03	-0.7409769	0.1536986	2.27E-06
G	GAAAAACAAAAC	0.14	-0.346401	0.07591912	7.29E-06
C	T	0.03	-0.7093906	0.1508205	3.88E-06
C	T	0.03	-0.6881722	0.1493868	6.00E-06
T	C	0.19	-0.3339659	0.07105106	3.94E-06
CCATG	C	0.18	-0.3336451	0.07110744	4.09E-06
G	A	0.18	-0.328402	0.07140894	6.21E-06
G	A	0.19	-0.3339659	0.07105106	3.94E-06
C	G	0.19	-0.3339659	0.07105106	3.94E-06
GTTTA	G	0.03	-0.6782822	0.1500281	8.76E-06
C	A	0.04	-0.5903825	0.1300297	8.04E-06
CT	C	0.14	-0.3285887	0.0697174	3.72E-06
TA	T	0.05	0.5839565	0.1275222	6.77E-06
C	T	0.02	-0.9027882	0.1986747	7.91E-06
A	G	0.05	-0.5801353	0.1214066	2.76E-06
C	T	0.05	-0.558531	0.1202436	5.05E-06
C	A	0.05	-0.5801353	0.1214066	2.76E-06
T	C	0.05	-0.558531	0.1202436	5.05E-06
G	A	0.06	-0.5388377	0.1111243	1.99E-06
T	C	0.05	-0.558531	0.1202436	5.05E-06
A	T	0.05	-0.5608065	0.1195053	4.08E-06
G	A	0.07	-0.5620761	0.09888896	3.29E-08
T	C	0.07	-0.5512762	0.09708943	3.39E-08
G	C	0.07	-0.5512762	0.09708943	3.39E-08
C	A	0.07	-0.5512762	0.09708943	3.39E-08
G	C	0.07	-0.5512762	0.09708943	3.39E-08
G	C	0.07	-0.5512762	0.09708943	3.39E-08
C	T	0.07	-0.5192611	0.09513042	1.04E-07
A	T	0.07	-0.5512762	0.09708943	3.39E-08
T	C	0.09	-0.4912416	0.0892582	8.30E-08
A	C	0.09	-0.4912416	0.0892582	8.30E-08
T	C	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4888192	0.0890308	8.87E-08

A	G	0.09	-0.4888192	0.0890308	8.87E-08
T	G	0.09	-0.4912416	0.0892582	8.30E-08
CTGTTTGTT	C	0.09	-0.4912416	0.0892582	8.30E-08
TG	T	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.09	-0.5364925	0.09025786	8.33E-09
A	C	0.08	-0.4809281	0.09367988	5.19E-07
T	C	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
T	A	0.09	-0.4912416	0.0892582	8.30E-08
C	A	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4912416	0.0892582	8.30E-08
TA	T	0.09	-0.4912416	0.0892582	8.30E-08
G	T	0.09	-0.4912416	0.0892582	8.30E-08
G	T	0.09	-0.4912416	0.0892582	8.30E-08
A	T	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
T	C	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.12	-0.3447784	0.07553488	7.23E-06
G	A	0.12	-0.3662739	0.07473533	1.57E-06
A	G	0.12	-0.3662739	0.07473533	1.57E-06
T	C	0.09	-0.4912416	0.0892582	8.30E-08
T	G	0.09	-0.4550395	0.09087089	9.49E-07
C	A	0.12	-0.3814051	0.07604959	9.15E-07
G	A	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4867285	0.08946488	1.14E-07
C	T	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.09	-0.5021286	0.08949106	4.79E-08
G	C	0.09	-0.4732681	0.08965635	2.56E-07
G	A	0.09	-0.4777151	0.08908775	1.69E-07
T	C	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
C	T	0.09	-0.4912416	0.0892582	8.30E-08
T	C	0.09	-0.4912416	0.0892582	8.30E-08
C	A	0.09	-0.4914033	0.0895071	8.89E-08
C	T	0.09	-0.4888192	0.0890308	8.87E-08
A	G	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.12	-0.3662739	0.07473533	1.57E-06
G	A	0.09	-0.4912416	0.0892582	8.30E-08
G	A	0.09	-0.4912416	0.0892582	8.30E-08
A	G	0.1	-0.3936012	0.08412225	4.34E-06
TATAAG	T	0.1	-0.3921863	0.08395894	4.49E-06
A	G	0.1	-0.3936012	0.08412225	4.34E-06
C	T	0.09	-0.4914033	0.0895071	8.89E-08
G	A	0.27	-0.2761146	0.06063152	7.57E-06
C	T	0.1	-0.3936012	0.08412225	4.34E-06

G	C	0.1	-0.3936012	0.08412225	4.34E-06
G	A	0.1	-0.3936012	0.08412225	4.34E-06
G	C	0.09	-0.4912416	0.0892582	8.30E-08
A	C	0.04	-0.6507801	0.1290984	8.09E-07
T	C	0.11	-0.3923851	0.08373463	4.20E-06
G	A	0.09	-0.4907511	0.0889753	7.81E-08
C	T	0.09	-0.4907511	0.0889753	7.81E-08
T	C	0.1	-0.3938295	0.08390037	4.05E-06
C	T	0.11	-0.3793721	0.08340163	7.75E-06
G	A	0.09	-0.4722471	0.08833619	1.83E-07
T	C	0.09	-0.4722471	0.08833619	1.83E-07
A	G	0.09	-0.4699676	0.08811484	1.95E-07
CT	C	0.09	-0.4722471	0.08833619	1.83E-07
C	T	0.02	-0.9440258	0.1979217	2.87E-06
G	T	0.11	-0.3867339	0.0835366	5.41E-06
T	G	0.09	-0.4426037	0.09027062	1.55E-06
C	T	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
A	T	0.09	-0.4722471	0.08833619	1.83E-07
C	T	0.09	-0.4722471	0.08833619	1.83E-07
C	T	0.09	-0.4722471	0.08833619	1.83E-07
A	C	0.09	-0.4613231	0.0892683	4.40E-07
C	A	0.09	-0.4515043	0.08995558	8.98E-07
T	A	0.09	-0.4722471	0.08833619	1.83E-07
T	C	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
A	G	0.09	-0.4722471	0.08833619	1.83E-07
T	C	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
C	G	0.09	-0.4722471	0.08833619	1.83E-07
A	G	0.09	-0.4675124	0.08857069	2.56E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
C	T	0.09	-0.4774824	0.0884554	1.41E-07
ATGTGTGTGTGTGTG	A	0.08	-0.4450891	0.09431825	3.62E-06
G	A	0.09	-0.4722471	0.08833619	1.83E-07
C	G	0.11	-0.3793721	0.08340163	7.75E-06
G	A	0.11	-0.3793721	0.08340163	7.75E-06
A	T	0.09	-0.4722471	0.08833619	1.83E-07
C	A	0.09	-0.4722471	0.08833619	1.83E-07
A	G	0.11	-0.3793721	0.08340163	7.75E-06
G	A	0.06	-0.622454	0.1059507	1.20E-08
G	T	0.09	-0.4722471	0.08833619	1.83E-07
T	G	0.11	-0.3793721	0.08340163	7.75E-06
T	C	0.11	-0.3792779	0.08352078	8.02E-06
G	A	0.09	-0.4722471	0.08833619	1.83E-07
G	C	0.09	-0.4722471	0.08833619	1.83E-07
AC	A	0.11	-0.3793721	0.08340163	7.75E-06
T	C	0.09	-0.4722471	0.08833619	1.83E-07
G	T	0.14	-0.3488514	0.07249008	2.36E-06

A	T	0.14	-0.3457918	0.07234081	2.74E-06
T	C	0.09	-0.4613231	0.0892683	4.40E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4722471	0.08833619	1.83E-07
T	A	0.11	-0.3793721	0.08340163	7.75E-06
G	A	0.09	-0.4722471	0.08833619	1.83E-07
T	TTA	0.08	-0.5266723	0.09566204	8.22E-08
C	T	0.09	-0.4722471	0.08833619	1.83E-07
T	A	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.03	-0.7312548	0.1472488	1.15E-06
G	T	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.4622617	0.08855572	3.41E-07
C	T	0.11	-0.378032	0.08324173	8.01E-06
G	C	0.09	-0.4722471	0.08833619	1.83E-07
A	C	0.09	-0.4722471	0.08833619	1.83E-07
G	A	0.09	-0.470772	0.0902391	3.46E-07
C	T	0.02	-0.8775647	0.1761685	1.07E-06
C	T	0.02	-0.6248581	0.1016148	2.75E-09
C	T	0.01	-0.574689	0.09333753	2.63E-09
G	A	0.01	-0.574689	0.09333753	2.63E-09
CTT	C	0.01	-0.574689	0.09333753	2.63E-09
TTGTGTGTG	T	0.2	0.1458782	0.02460842	9.08E-09
G	A	0.06	-0.2342403	0.03932413	7.80E-09
C	T	0.03	-0.4234694	0.07088196	7.17E-09
T	C	0.03	-0.4234694	0.07088196	7.17E-09
C	T	0.03	-0.4234694	0.07088196	7.17E-09
TTTTTGTTTTGG	T	0.01	-0.6115552	0.1031504	9.14E-09
C	T	0.15	-0.2457417	0.03860342	9.83E-10
TTTTAA	T	0.01	-0.6255323	0.104101	5.89E-09
A	G	0.01	-0.5204933	0.08661107	5.88E-09
T	C	0.07	-0.2752735	0.04570038	5.44E-09
G	C	0.07	-0.2752735	0.04570038	5.44E-09
C	A	0.07	-0.2752735	0.04570038	5.44E-09
G	C	0.07	-0.2752735	0.04570038	5.44E-09
G	C	0.07	-0.2752735	0.04570038	5.44E-09
A	T	0.07	-0.2752735	0.04570038	5.44E-09
C	T	0.15	-0.2098637	0.03483077	5.38E-09
C	T	0.05	-0.5235166	0.08771959	7.32E-09
G	A	0.01	-0.7484575	0.1222982	3.91E-09
T	CTTCTGTCTGTCTGTCT	0.01	-0.6641849	0.1089184	3.64E-09
G	GA	0.06	-0.3262998	0.05472794	7.96E-09
T	C	0.01	-0.7057627	0.1185422	8.16E-09
TTGTGTGTG	T	0.2	0.1691612	0.02846406	8.42E-09
AATCTATCTAACT	A	0.01	-0.5872699	0.09898523	8.88E-09
C	T	0.02	-0.5116307	0.08645428	9.76E-09
A	AAAC	0.26	-0.1982276	0.03049605	3.90E-10
G	A	0.02	-0.4217193	0.06686053	1.14E-09
C	T	0.03	-0.414763	0.06528516	8.85E-10
AT	A	0.11	0.2282402	0.03745803	3.73E-09
T	A	0.4	0.167739	0.02595765	4.79E-10

C	G	0.05	-0.3336817	0.05508335	4.54E-09
C	T	0.41	-0.2740352	0.04594359	7.78E-09
GA	G	0.03	0.5615277	0.09342688	5.85E-09
AG	A	0.03	0.5502902	0.09262392	8.49E-09
T	C	0.02	-0.435599	0.07306593	8.89E-09
T	C	0.03	-0.4319708	0.07107966	4.82E-09
C	A	0.01	-1.069235	0.170988	1.83E-09
A	C	0.01	-1.069235	0.170988	1.83E-09
G	A	0.01	-1.069235	0.170988	1.83E-09
A	G	0.04	-0.6020028	0.09838014	3.40E-09
G	C	0.04	0.2996905	0.0487229	2.73E-09
T	C	0.04	0.2857515	0.047204	4.65E-09
A	T	0.04	0.2965971	0.04767975	1.86E-09
C	A	0.04	0.2965971	0.04767975	1.86E-09
G	A	0.04	0.2965971	0.04767975	1.86E-09
C	T	0.04	0.2965971	0.04767975	1.86E-09
G	A	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
TC	T	0.04	0.2964036	0.04807719	2.53E-09
C	T	0.04	0.2861294	0.04812243	8.30E-09
C	A	0.04	0.2861294	0.04812243	8.30E-09
C	G	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2889652	0.04741056	3.71E-09
T	A	0.04	0.2965971	0.04767975	1.86E-09
T	C	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
G	A	0.04	0.2965971	0.04767975	1.86E-09
T	C	0.04	0.2965971	0.04767975	1.86E-09
C	A	0.04	0.2965971	0.04767975	1.86E-09
T	TAACAA	0.04	0.2964036	0.04807719	2.53E-09
C	A	0.04	0.2965971	0.04767975	1.86E-09
C	T	0.04	0.2965971	0.04767975	1.86E-09
A	T	0.04	0.2965971	0.04767975	1.86E-09
C	T	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
T	G	0.04	0.2965971	0.04767975	1.86E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
C	T	0.04	0.2878248	0.04631836	1.93E-09
A	G	0.04	0.2965971	0.04767975	1.86E-09
G	A	0.04	0.2965971	0.04767975	1.86E-09
C	CT	0.04	0.2886915	0.0478035	5.02E-09
C	G	0.02	-0.5292796	0.08712017	4.43E-09
C	A	0.02	-0.5450801	0.0913876	8.03E-09
T	G	0.02	-0.5450801	0.0913876	8.03E-09
A	AAAC	0.26	-0.1866671	0.0315677	9.96E-09
G	A	0.12	0.2458751	0.04107283	6.68E-09
C	T	0.12	0.2437772	0.04033204	4.88E-09
C	T	0.41	-0.2845057	0.04756784	7.12E-09
G	T	0.03	-0.6597948	0.1107925	8.09E-09

C	T	0.04	0.3632502	0.05927521	3.67E-09
G	C	0.06	0.3146346	0.0529612	9.91E-09
C	A	0.01	-1.131436	0.1803424	1.63E-09
A	C	0.01	-1.131436	0.1803424	1.63E-09
G	A	0.01	-1.131436	0.1803424	1.63E-09
A	G	0.04	-0.6214017	0.1029042	5.26E-09
G	C	0.04	0.3393989	0.05417747	1.46E-09
T	C	0.04	0.3280623	0.05250992	1.60E-09
A	T	0.04	0.3408364	0.05305724	5.99E-10
C	A	0.04	0.3408364	0.05305724	5.99E-10
G	A	0.04	0.3408364	0.05305724	5.99E-10
C	T	0.04	0.3408364	0.05305724	5.99E-10
G	A	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
TC	T	0.04	0.3359091	0.05352674	1.37E-09
C	T	0.04	0.3291041	0.05354436	2.80E-09
C	A	0.04	0.3291041	0.05354436	2.80E-09
C	G	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3313412	0.05277892	1.36E-09
T	A	0.04	0.3408364	0.05305724	5.99E-10
T	C	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
G	A	0.04	0.3408364	0.05305724	5.99E-10
T	C	0.04	0.3408364	0.05305724	5.99E-10
C	A	0.04	0.3408364	0.05305724	5.99E-10
T	TAACAA	0.04	0.3359091	0.05352674	1.37E-09
C	A	0.04	0.3408364	0.05305724	5.99E-10
C	T	0.04	0.3408364	0.05305724	5.99E-10
A	T	0.04	0.3408364	0.05305724	5.99E-10
C	T	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
T	G	0.04	0.3408364	0.05305724	5.99E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
C	T	0.04	0.3308766	0.05158773	6.34E-10
A	G	0.04	0.3408364	0.05305724	5.99E-10
G	A	0.04	0.3408364	0.05305724	5.99E-10
C	CT	0.04	0.3263756	0.05324249	3.06E-09
C	T	0.04	0.34011	0.05482485	2.05E-09
A	G	0.04	0.3135393	0.05256286	7.49E-09
A	G	0.04	0.3135393	0.05256286	7.49E-09
T	C	0.38	0.1658314	0.02787447	8.10E-09
C	A	0.28	0.277886	0.06162518	9.22E-06
A	ATTTCTTTC	0.08	-0.4682645	0.1006485	4.89E-06
C	T	0.02	0.8437118	0.1873263	9.44E-06
C	CA	0.02	0.8437118	0.1873263	9.44E-06
C	T	0.45	0.2397417	0.05244091	7.00E-06
G	A	0.45	0.2486188	0.05256915	3.45E-06
A	AT	0.02	-0.9805996	0.2173503	9.13E-06
A	G	0.02	0.9168044	0.1971162	4.92E-06

T	C	0.02	0.8667368	0.1897806	7.15E-06
C	G	0.02	0.8667368	0.1897806	7.15E-06
T	C	0.02	0.9326466	0.1943964	2.53E-06
C	T	0.02	0.8788223	0.1946623	9.01E-06
T	C	0.02	0.8667368	0.1897806	7.15E-06
A	G	0.02	0.8667368	0.1897806	7.15E-06
T	G	0.02	0.8667368	0.1897806	7.15E-06
A	C	0.02	0.8667368	0.1897806	7.15E-06
C	T	0.02	0.9136471	0.2008165	7.72E-06
C	T	0.29	0.2759858	0.05839344	3.50E-06
A	C	0.48	-0.2369088	0.05223482	8.22E-06
A	G	0.23	-0.2909638	0.06437424	8.80E-06
A	AG	0.37	-0.2552743	0.05545074	6.08E-06
T	G	0.39	-0.2507812	0.05544749	8.69E-06
A	G	0.22	-0.3016531	0.06475804	4.76E-06
A	G	0.21	-0.29623	0.06481418	7.04E-06
C	A	0.19	-0.3069089	0.06773296	8.37E-06
GTC	G	0.19	-0.307541	0.06815843	9.10E-06
C	CA	0.2	0.3156195	0.06933696	7.64E-06
G	C	0.02	-0.844852	0.1785863	3.43E-06
C	T	0.02	-0.8672005	0.1830326	3.32E-06
C	T	0.02	-0.8672005	0.1830326	3.32E-06
A	C	0.02	-0.8672005	0.1830326	3.32E-06
C	G	0.31	-0.269824	0.05800804	4.91E-06
C	CT	0.29	-0.2661888	0.05843567	7.53E-06
C	T	0.29	-0.2694111	0.05819463	5.41E-06
C	T	0.29	-0.2715374	0.05834118	4.85E-06
G	A	0.29	-0.2658017	0.05840033	7.66E-06
C	T	0.29	-0.2694111	0.05819463	5.41E-06
C	T	0.31	-0.2725653	0.05755302	3.35E-06
TC	T	0.3	-0.269212	0.05776429	4.71E-06
G	A	0.31	-0.2725653	0.05755302	3.35E-06
C	A	0.3	-0.2636079	0.05775447	7.24E-06
G	A	0.3	-0.2690166	0.05774964	4.76E-06
TC	T	0.3	-0.2746193	0.05775719	3.08E-06
C	G	0.31	-0.2672193	0.05761126	5.21E-06
A	G	0.31	-0.2683057	0.05776307	5.05E-06
C	A	0.31	-0.2715435	0.05742571	3.46E-06
A	G	0.31	-0.2735591	0.05742613	2.95E-06
C	CT	0.31	-0.2725796	0.05781272	3.69E-06
ATTG	A	0.32	-0.2753103	0.05742642	2.57E-06
A	G	0.19	-0.320103	0.07024905	7.48E-06
G	C	0.11	-0.3907468	0.08332113	4.13E-06
G	A	0.11	-0.4024641	0.08226109	1.63E-06
A	G	0.11	-0.4024641	0.08226109	1.63E-06
C	T	0.11	-0.398215	0.08149548	1.68E-06
C	T	0.44	0.2486276	0.05422803	6.61E-06
T	C	0.38	0.2456776	0.0546464	9.78E-06
T	A	0.38	0.2458293	0.05429667	8.51E-06
A	G	0.38	0.246739	0.05435261	8.07E-06

G	C	0.39	-0.2429971	0.05401856	9.67E-06
G	C	0.39	-0.2429971	0.05401856	9.67E-06
A	C	0.39	-0.2429971	0.05401856	9.67E-06
C	A	0.25	-0.2933255	0.06299623	4.80E-06
C	T	0.25	-0.2897704	0.06301133	6.21E-06
G	T	0.25	-0.2897704	0.06301133	6.21E-06
C	T	0.32	0.2687904	0.05936181	8.49E-06
C	T	0.32	0.2687904	0.05936181	8.49E-06
G	T	0.32	0.2687904	0.05936181	8.49E-06
T	A	0.27	-0.2780287	0.06106039	7.59E-06
G	A	0.25	-0.2895062	0.06295183	6.21E-06
T	C	0.25	-0.2834364	0.06308272	9.90E-06
C	T	0.25	-0.2847958	0.06299969	8.77E-06
C	T	0.25	-0.2847958	0.06299969	8.77E-06
G	A	0.25	-0.2827533	0.06278318	9.45E-06
A	G	0.27	-0.2748472	0.0606171	8.27E-06
C	A	0.45	0.2582845	0.05407901	2.79E-06
G	C	0.45	0.2592643	0.0541389	2.63E-06
C	CTT	0.45	0.2514358	0.05428792	5.37E-06
C	A	0.45	0.2652973	0.05409903	1.54E-06
C	T	0.45	0.2642922	0.05403824	1.64E-06
G	A	0.45	0.2588494	0.05416703	2.76E-06
G	A	0.45	0.2586299	0.05398967	2.61E-06
G	A	0.45	0.2683453	0.05409678	1.19E-06
A	G	0.45	0.2585998	0.0540324	2.67E-06
G	A	0.45	0.257878	0.05418415	3.01E-06
T	C	0.44	0.2505242	0.05420448	5.60E-06
T	C	0.45	0.2459737	0.0539418	7.38E-06
T	C	0.45	0.2576505	0.05421587	3.11E-06
C	T	0.45	0.258168	0.05418368	2.94E-06
C	G	0.46	0.2602969	0.05432773	2.60E-06
C	A	0.32	0.2708312	0.05784867	4.28E-06
C	T	0.3	0.2779832	0.06052027	6.36E-06
GC	G	0.3	0.2882112	0.06056393	3.02E-06
A	G	0.11	-0.4088219	0.09046508	8.83E-06
C	T	0.13	-0.3736888	0.08026028	4.81E-06
T	TACACACACAC	0.01	-1.145228	0.2402367	2.91E-06
C	G	0.02	-0.9762461	0.2141078	7.39E-06
C	T	0.02	-0.9455456	0.2049621	5.82E-06
A	AAC	0.08	-0.513258	0.1022472	8.95E-07
A	AAAC	0.26	-0.2975702	0.06524708	7.35E-06
T	TACACACACAC	0.04	-0.6178295	0.1372132	9.49E-06
G	A	0.02	0.979965	0.2138472	6.67E-06
G	A	0.02	-0.8319198	0.1792535	5.14E-06
C	T	0.03	-0.8227574	0.1751262	3.98E-06
G	A	0.02	-0.9574751	0.2024707	3.46E-06
C	A	0.32	-0.2598688	0.05779856	9.77E-06
A	T	0.33	-0.2637982	0.05827643	8.54E-06
G	C	0.04	0.5987242	0.1284647	4.71E-06
T	C	0.04	0.5913145	0.1243043	3.04E-06

A	T	0.04	0.5956368	0.1257039	3.31E-06
C	A	0.04	0.5956368	0.1257039	3.31E-06
G	A	0.04	0.5956368	0.1257039	3.31E-06
C	T	0.04	0.5956368	0.1257039	3.31E-06
G	A	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
TC	T	0.04	0.5813194	0.1268275	6.64E-06
C	T	0.04	0.5794362	0.126717	6.97E-06
C	A	0.04	0.5794362	0.126717	6.97E-06
C	G	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5849171	0.1249275	4.28E-06
T	A	0.04	0.5956368	0.1257039	3.31E-06
T	C	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
G	A	0.04	0.5956368	0.1257039	3.31E-06
T	C	0.04	0.5956368	0.1257039	3.31E-06
C	A	0.04	0.5956368	0.1257039	3.31E-06
T	TAACAA	0.04	0.5813194	0.1268275	6.64E-06
C	A	0.04	0.5956368	0.1257039	3.31E-06
C	T	0.04	0.5956368	0.1257039	3.31E-06
A	T	0.04	0.5956368	0.1257039	3.31E-06
C	T	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
T	G	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
A	G	0.04	0.5956368	0.1257039	3.31E-06
G	A	0.04	0.5956368	0.1257039	3.31E-06
C	CT	0.04	0.5707027	0.1260383	8.49E-06
G	A	0.07	0.4907569	0.1047704	4.24E-06
TAAATAAATAAATAA/	A	0.06	0.4963055	0.1069725	5.18E-06
C	T	0.07	0.5028334	0.1042401	2.24E-06
G	A	0.07	0.5028334	0.1042401	2.24E-06
C	T	0.04	0.6100946	0.1297551	3.91E-06
A	G	0.04	0.5610992	0.1242213	8.91E-06
A	G	0.04	0.5610992	0.1242213	8.91E-06
G	A	0.12	0.3844083	0.08252427	4.76E-06
C	T	0.12	0.4047514	0.08084345	9.53E-07
A	G	0.12	0.3947283	0.0819309	2.30E-06
G	T	0.26	0.295485	0.06248662	3.46E-06
A	T	0.02	0.828904	0.1844748	9.89E-06
A	AAAC	0.26	-0.2056926	0.03463782	8.65E-09
G	A	0.45	0.1404786	0.02361836	8.26E-09
C	A	0.01	-1.225388	0.1985241	2.83E-09
A	C	0.01	-1.225388	0.1985241	2.83E-09
G	A	0.01	-1.225388	0.1985241	2.83E-09
A	G	0.04	-0.6773308	0.1064247	8.83E-10
C	T	0.12	0.2587799	0.04342228	7.88E-09
G	A	0.12	0.2891813	0.04663181	2.07E-09
C	T	0.12	0.2892046	0.04576768	1.08E-09

A	G	0.12	0.2873307	0.04634379	2.09E-09
C	T	0.13	-0.1584643	0.03363774	3.75E-06
T	G	0.01	-0.479462	0.103007	4.84E-06
C	T	0.01	-0.479462	0.103007	4.84E-06
A	G	0.01	-0.479462	0.103007	4.84E-06
G	C	0.01	-0.479462	0.103007	4.84E-06
A	T	0.02	-0.3617488	0.07685405	3.82E-06
CTT	C	0.05	-0.2294283	0.04915581	4.57E-06
GT	G	0.04	-0.2344138	0.05181501	8.64E-06
C	CA	0.04	-0.2633464	0.05820338	8.62E-06
GT	G	0.04	-0.2585763	0.05279859	1.59E-06
C	T	0.05	-0.2263791	0.04694587	2.26E-06
G	A	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
T	C	0.05	-0.2263791	0.04694587	2.26E-06
A	G	0.03	-0.3141814	0.06870387	6.96E-06
T	C	0.03	-0.3216265	0.06943646	5.36E-06
C	T	0.01	-0.5139413	0.1061464	2.06E-06
T	C	0.01	-0.4826049	0.1034622	4.63E-06
T	C	0.01	-0.4826049	0.1034622	4.63E-06
T	C	0.44	0.09987137	0.02209193	8.77E-06
TTTTA	T	0.06	-0.2191182	0.04842159	8.60E-06
CGT	C	0.29	0.1351768	0.02594472	3.58E-07
T	TACAC	0.02	-0.4142287	0.08614255	2.40E-06
C	CA	0.03	-0.2983841	0.06477653	6.00E-06
G	A	0.01	-0.447765	0.0908083	1.36E-06
A	G	0.01	-0.447765	0.0908083	1.36E-06
C	T	0.01	-0.4349105	0.0931694	4.56E-06
G	A	0.3	0.1167842	0.02414116	2.10E-06
C	G	0.11	-0.1691141	0.03562129	3.18E-06
G	C	0.11	-0.160439	0.03543437	8.50E-06
C	T	0.09	-0.1734396	0.03832359	8.58E-06
G	A	0.09	-0.1734396	0.03832359	8.58E-06
G	A	0.09	-0.1734396	0.03832359	8.58E-06
A	G	0.09	-0.1752305	0.03845132	7.47E-06
G	T	0.09	-0.1798951	0.0382075	3.80E-06
G	A	0.09	-0.1760313	0.03841455	6.68E-06
A	G	0.09	-0.1770098	0.03811245	5.06E-06
T	C	0.09	-0.1845885	0.03825114	2.22E-06
C	A	0.09	-0.1875485	0.03834702	1.64E-06
TTGTG	T	0.08	-0.1908536	0.0421198	8.37E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1822675	0.03847945	3.34E-06
T	TAG	0.09	-0.1894945	0.03834631	1.29E-06
T	C	0.09	-0.1820472	0.03844545	3.36E-06
G	A	0.08	-0.1775793	0.03870008	6.50E-06

G	A	0.09	-0.1845885	0.03825114	2.22E-06
A	G	0.09	-0.1845885	0.03825114	2.22E-06
A	G	0.09	-0.1800188	0.03836657	4.09E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1815367	0.03816214	3.04E-06
C	G	0.09	-0.1845885	0.03825114	2.22E-06
AAAC	A	0.08	-0.1835594	0.03898423	3.79E-06
G	A	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
G	T	0.09	-0.1845885	0.03825114	2.22E-06
A	G	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
TA	T	0.09	-0.1894945	0.03834631	1.29E-06
G	A	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1862944	0.03835194	1.92E-06
A	G	0.09	-0.1822154	0.0384933	3.38E-06
A	C	0.09	-0.1845885	0.03825114	2.22E-06
A	C	0.09	-0.1894945	0.03834631	1.29E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
G	T	0.09	-0.1845885	0.03825114	2.22E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
A	G	0.09	-0.1845885	0.03825114	2.22E-06
A	G	0.09	-0.1845885	0.03825114	2.22E-06
C	A	0.09	-0.1845885	0.03825114	2.22E-06
G	A	0.11	-0.1743381	0.03431695	6.71E-07
C	T	0.09	-0.1845885	0.03825114	2.22E-06
G	C	0.09	-0.1845885	0.03825114	2.22E-06
A	T	0.09	-0.1845885	0.03825114	2.22E-06
CAGG	C	0.09	-0.1894945	0.03834631	1.29E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
T	G	0.08	-0.1768536	0.03920198	9.14E-06
C	G	0.09	-0.1845885	0.03825114	2.22E-06
CCT	C	0.09	-0.1894945	0.03834631	1.29E-06
C	T	0.09	-0.1845885	0.03825114	2.22E-06
G	A	0.09	-0.1862944	0.03835194	1.92E-06
G	C	0.09	-0.1862944	0.03835194	1.92E-06
G	A	0.09	-0.1862944	0.03835194	1.92E-06
T	C	0.09	-0.1820305	0.0382712	3.05E-06
C	G	0.09	-0.1862944	0.03835194	1.92E-06
T	A	0.09	-0.1862944	0.03835194	1.92E-06
A	C	0.09	-0.1862944	0.03835194	1.92E-06
G	A	0.09	-0.18053	0.03851988	4.19E-06
T	G	0.09	-0.1862944	0.03835194	1.92E-06
G	A	0.09	-0.18053	0.03851988	4.19E-06
G	A	0.09	-0.1862944	0.03835194	1.92E-06
TG	T	0.09	-0.1912276	0.03844659	1.11E-06
A	G	0.09	-0.1862944	0.03835194	1.92E-06
G	C	0.08	-0.1929889	0.0403895	2.76E-06

G	A	0.09	-0.1862944	0.03835194	1.92E-06
T	C	0.09	-0.1837992	0.03824743	2.44E-06
T	C	0.09	-0.1837992	0.03824743	2.44E-06
T	G	0.08	-0.1811558	0.03930063	5.92E-06
C	T	0.09	-0.1737577	0.03801573	7.03E-06
C	T	0.09	-0.1737577	0.03801573	7.03E-06
G	A	0.09	-0.1737577	0.03801573	7.03E-06
AAAC	A	0.09	-0.1829667	0.03825723	2.71E-06
C	G	0.03	-0.2965869	0.06312413	3.97E-06
A	G	0.02	-0.4000874	0.0870244	6.25E-06
C	G	0.03	-0.354811	0.06713716	2.48E-07
G	A	0.03	-0.2725842	0.06046565	9.27E-06
C	T	0.02	-0.412904	0.08460765	1.73E-06
G	A	0.01	-0.4489032	0.09896639	8.20E-06
ATGGCTCCT	A	0.03	-0.2907081	0.05995033	1.99E-06
G	C	0.27	0.1275395	0.0247486	4.72E-07
G	GAAGAAAGA	0.02	-0.4664151	0.08978178	3.85E-07
A	G	0.01	-0.5240297	0.1088054	2.32E-06
C	T	0.01	-0.5240297	0.1088054	2.32E-06
CAT	C	0.05	-0.2328286	0.05115412	7.66E-06
GGTGTGTGT	G	0.1	0.1735897	0.03856314	9.54E-06
C	T	0.02	-0.4270771	0.09108785	4.15E-06
G	A	0.39	0.1036417	0.02256966	6.40E-06
G	A	0.04	-0.2713765	0.05898973	6.16E-06
T	TACACACAC	0.04	-0.2765966	0.0609019	8.00E-06
A	G	0.01	-0.4876871	0.09686265	8.33E-07
C	T	0.01	-0.5083822	0.1118554	7.88E-06
G	A	0.13	-0.1515135	0.03352182	8.80E-06
G	A	0.13	-0.1515135	0.03352182	8.80E-06
G	A	0.13	-0.1513758	0.03352331	8.97E-06
T	C	0.13	-0.1462105	0.03249898	9.65E-06
G	A	0.13	-0.1505575	0.03291372	6.92E-06
TG	T	0.13	-0.1550792	0.03283239	3.55E-06
G	A	0.02	-0.3823303	0.08262798	5.47E-06
A	AG	0.03	-0.3308149	0.06716187	1.40E-06
T	A	0.05	-0.2708315	0.05164799	3.04E-07
T	C	0.01	-0.495311	0.1080704	6.65E-06
C	CA	0.03	-0.2588797	0.05637079	6.39E-06
G	GCACACA	0.01	-0.483718	0.1054324	6.52E-06
G	C	0.01	-0.474461	0.1006628	3.71E-06
G	T	0.02	-0.3443048	0.07592608	8.24E-06
G	A	0.02	-0.3443048	0.07592608	8.24E-06
A	AT	0.02	-0.3443048	0.07592608	8.24E-06
AG	A	0.02	-0.3443048	0.07592608	8.24E-06
T	C	0.02	-0.3443048	0.07592608	8.24E-06
C	T	0.02	-0.3443048	0.07592608	8.24E-06
T	TCACA	0.03	-0.320463	0.06983541	6.49E-06
G	A	0.1	-0.1877518	0.03962122	3.31E-06
CT	C	0.12	-0.142148	0.03160753	9.72E-06
A	AAAATAAAT	0.02	-0.3391696	0.07459538	7.82E-06

A	C	0.03	-0.2736183	0.06040637	8.43E-06
T	C	0.03	-0.2736183	0.06040637	8.43E-06
T	G	0.09	-0.1907354	0.03970099	2.45E-06
G	A	0.02	-0.3513869	0.07697978	7.22E-06
C	A	0.33	0.1037859	0.02307121	9.66E-06
C	T	0.33	0.1037859	0.02307121	9.66E-06
A	G	0.33	0.1061058	0.02306162	6.15E-06
G	A	0.5	-0.1022449	0.02222384	6.16E-06
T	C	0.25	-0.1138189	0.02492997	7.20E-06
T	G	0.22	-0.1308214	0.02619552	1.01E-06
C	CAT	0.21	-0.1231252	0.02636588	4.52E-06
G	A	0.22	-0.1308214	0.02619552	1.01E-06
T	C	0.22	-0.1314243	0.02619641	9.08E-07
G	A	0.22	-0.1314243	0.02619641	9.08E-07
G	A	0.22	-0.1314243	0.02619641	9.08E-07
G	A	0.22	-0.1259695	0.02604451	2.11E-06
GT	G	0.22	-0.1281483	0.02622181	1.67E-06
G	T	0.22	-0.1314243	0.02619641	9.08E-07
G	A	0.22	-0.1314243	0.02619641	9.08E-07
C	T	0.22	-0.1314243	0.02619641	9.08E-07
T	A	0.22	-0.1319672	0.02636855	9.62E-07
G	A	0.02	-0.349219	0.07769403	9.82E-06
C	T	0.14	-0.1495392	0.03139404	2.96E-06
C	G	0.14	-0.1425548	0.03139872	8.05E-06
TATA	T	0.02	-0.3806697	0.07458838	6.00E-07
T	C	0.02	-0.3979938	0.07355604	1.33E-07
T	C	0.02	-0.4596305	0.08341722	8.03E-08
C	T	0.02	-0.3979938	0.07355604	1.33E-07
A	C	0.02	-0.3979938	0.07355604	1.33E-07
C	A	0.02	-0.3979938	0.07355604	1.33E-07
C	G	0.02	-0.4409354	0.08034197	8.97E-08
G	A	0.02	-0.4409354	0.08034197	8.97E-08
T	A	0.02	-0.4167512	0.09171445	7.91E-06
C	G	0.02	-0.4232988	0.09174066	5.80E-06
C	T	0.01	-0.5420821	0.1114439	1.86E-06
G	C	0.04	-0.2918213	0.05544271	2.76E-07
C	T	0.34	-0.1077101	0.02294643	4.05E-06
C	T	0.4	-0.1067664	0.02260107	3.54E-06
A	G	0.42	-0.1057749	0.02277964	5.09E-06
T	C	0.21	0.1431142	0.02736662	3.26E-07
C	T	0.08	-0.1963412	0.04285484	6.70E-06
T	C	0.08	-0.1867606	0.04116378	8.16E-06
C	T	0.01	-0.4991221	0.1018767	1.58E-06
TG	T	0.01	-0.5185331	0.1061551	1.69E-06
G	A	0.01	-0.4439445	0.09624266	5.83E-06
G	A	0.01	-0.4492282	0.09328465	2.33E-06
C	T	0.01	-0.4492282	0.09328465	2.33E-06
GTGTGTGTGT	G	0.38	-0.1018795	0.02197079	5.23E-06
C	T	0.04	-0.2665417	0.05741529	5.11E-06
G	A	0.04	-0.2621165	0.0570396	6.31E-06

G	A	0.03	0.6519487	0.1429289	7.33E-06
T	TACAC	0.12	0.3870212	0.08427907	6.40E-06
G	A	0.08	0.4481177	0.09730864	6.04E-06
C	A	0.05	0.6296296	0.123234	5.84E-07
TAC	T	0.06	-0.5193385	0.1142324	7.83E-06
T	G	0.03	0.8477215	0.1617605	3.08E-07
C	A	0.03	0.7782358	0.1680768	5.40E-06
C	T	0.01	1.280171	0.2641448	2.02E-06
G	A	0.34	-0.249506	0.0546578	7.22E-06
G	T	0.04	0.5962389	0.1299715	6.53E-06
G	A	0.04	0.5962389	0.1299715	6.53E-06
C	T	0.02	0.9597853	0.2054118	4.46E-06
CG	C	0.02	0.9597853	0.2054118	4.46E-06
C	A	0.01	1.075838	0.2294242	4.14E-06
T	TCA	0.1	0.386317	0.08503862	7.95E-06
C	G	0.01	1.217788	0.2607895	4.52E-06
ACACACACACACACA	A	0.05	0.6621925	0.1236286	1.74E-07
G	A	0.01	1.088379	0.2361627	5.94E-06
T	C	0.01	1.088379	0.2361627	5.94E-06
C	T	0.01	1.088379	0.2361627	5.94E-06
G	A	0.01	1.128884	0.2503423	9.22E-06
C	T	0.22	0.2993142	0.06314207	3.28E-06
TAC	T	0.03	0.7201086	0.1515255	3.11E-06
A	G	0.01	1.156811	0.2556415	8.60E-06
A	ATGTG	0.04	0.6476114	0.1437683	9.41E-06
TTAGA	T	0.36	-0.2452544	0.05319867	5.90E-06
GC	G	0.01	-1.115353	0.2359702	3.49E-06
C	T	0.02	-0.9784687	0.2099728	4.72E-06
C	T	0.02	-0.9784687	0.2099728	4.72E-06
G	GA	0.11	0.3693066	0.07985098	5.53E-06
TTTA	T	0.02	0.8704081	0.1876571	5.21E-06
C	T	0.32	0.2512873	0.05557498	8.73E-06
A	G	0.31	0.2529414	0.05616707	9.46E-06
A	C	0.22	-0.2974338	0.06416269	5.27E-06
A	G	0.23	-0.2917849	0.06433085	8.21E-06
A	T	0.23	-0.2900056	0.06434838	9.32E-06
C	A	0.22	-0.2941291	0.06459044	7.58E-06
G	A	0.23	-0.2931944	0.06464399	8.22E-06
G	A	0.23	-0.2925588	0.06465304	8.60E-06
T	C	0.23	-0.2905158	0.0636799	7.31E-06
C	A	0.23	-0.294002	0.06307282	4.69E-06
G	A	0.23	-0.2878754	0.06401347	9.72E-06
C	A	0.23	-0.2983584	0.06399047	4.67E-06
A	G	0.23	-0.2878754	0.06401347	9.72E-06
C	A	0.23	-0.2899665	0.06369717	7.63E-06
T	C	0.23	-0.2878754	0.06401347	9.72E-06
A	G	0.23	-0.2939235	0.06404209	6.47E-06
G	T	0.23	-0.2990951	0.06364127	3.95E-06
G	A	0.23	-0.2983584	0.06399047	4.67E-06
G	C	0.23	-0.2936032	0.06339693	5.37E-06

C	G	0.23	-0.2959361	0.06368748	5.01E-06
A	G	0.23	-0.2983584	0.06399047	4.67E-06
A	G	0.23	-0.2965266	0.06334317	4.29E-06
C	A	0.24	-0.3068465	0.06211857	1.31E-06
T	C	0.23	-0.2968425	0.06368745	4.70E-06
G	A	0.23	-0.2878754	0.06401347	9.72E-06
A	C	0.23	-0.2990951	0.06364127	3.95E-06
A	G	0.23	-0.2955909	0.06368913	5.14E-06
A	G	0.23	-0.2939235	0.06404209	6.47E-06
A	G	0.23	-0.2990951	0.06364127	3.95E-06
T	C	0.23	-0.2884201	0.06338146	7.69E-06
G	A	0.23	-0.2990951	0.06364127	3.95E-06
T	A	0.23	-0.2878754	0.06401347	9.72E-06
A	G	0.23	-0.2898627	0.06403439	8.54E-06
C	T	0.22	-0.2957171	0.06406359	5.75E-06
A	G	0.23	-0.2878681	0.06348188	8.25E-06
C	T	0.22	-0.2902194	0.06447792	9.56E-06
G	A	0.23	-0.2876401	0.06315448	7.55E-06
C	T	0.23	-0.3027749	0.06366518	3.06E-06
T	C	0.22	-0.2956428	0.06404075	5.74E-06
A	G	0.22	-0.2948743	0.06439744	6.78E-06
G	T	0.23	-0.3001723	0.06423851	4.46E-06
C	G	0.22	-0.2943984	0.0643723	6.95E-06
T	C	0.23	-0.2912494	0.06398881	7.65E-06
A	G	0.23	-0.2891538	0.06431477	9.77E-06
G	T	0.23	-0.2920048	0.06398051	7.25E-06
T	C	0.22	-0.2907022	0.06448379	9.27E-06
T	G	0.23	-0.2900549	0.06431261	9.19E-06
T	A	0.34	-0.2567478	0.05653759	8.01E-06
C	G	0.01	1.321417	0.2631256	8.86E-07
T	G	0.01	1.321417	0.2631256	8.86E-07
G	A	0.01	1.321417	0.2631256	8.86E-07
G	T	0.01	1.321417	0.2631256	8.86E-07
T	C	0.01	1.321417	0.2631256	8.86E-07
A	G	0.01	1.142295	0.2498114	6.97E-06
C	T	0.01	1.321417	0.2631256	8.86E-07
G	C	0.07	-0.4620453	0.09941281	4.99E-06
T	C	0.08	-0.4649884	0.09760463	2.95E-06
T	C	0.01	1.068426	0.2311767	5.61E-06
G	A	0.41	0.2613912	0.05378575	1.90E-06
G	A	0.44	0.239457	0.05244338	7.18E-06
G	A	0.4	0.2439766	0.05400239	8.88E-06
C	A	0.36	0.2506269	0.05562316	9.36E-06
C	T	0.36	0.2521597	0.0555748	8.15E-06
G	C	0.37	0.2535521	0.05564262	7.48E-06
CAGTG	C	0.36	0.2563211	0.05586653	6.51E-06
C	A	0.36	0.2555196	0.05547431	6.01E-06
A	G	0.37	0.2705422	0.0555879	1.84E-06
T	G	0.37	0.260472	0.05557928	4.19E-06
G	A	0.36	0.2555196	0.05547431	6.01E-06

C	T	0.36	0.2532891	0.05562053	7.58E-06
C	G	0.36	0.2536314	0.05549397	7.04E-06
G	A	0.36	0.2529531	0.05553314	7.54E-06
G	A	0.36	0.2526188	0.05550693	7.67E-06
C	T	0.35	0.2550908	0.05600721	7.55E-06
C	T	0.36	0.2568926	0.05565092	5.75E-06
GTGTTTGTT	G	0.31	0.2666775	0.05726696	4.79E-06
A	G	0.32	0.2610819	0.0568744	6.44E-06
T	C	0.32	0.2754082	0.05695319	2.12E-06
G	C	0.32	0.2831939	0.05660992	9.71E-07
A	G	0.32	0.2797367	0.05667288	1.33E-06
C	T	0.02	1.040358	0.1980118	2.89E-07
G	A	0.03	0.7528168	0.1667832	9.04E-06
C	T	0.06	0.6060692	0.1178819	5.00E-07
G	A	0.05	0.6119457	0.120156	6.31E-07
AG	A	0.01	0.9822016	0.1906454	4.75E-07
C	A	0.01	1.086244	0.2383276	7.45E-06
T	C	0.46	-0.2355548	0.05136021	6.56E-06
A	G	0.04	0.5729628	0.1238475	5.49E-06
G	A	0.46	-0.2481044	0.05240814	3.38E-06
G	A	0.31	0.2534814	0.05572012	7.74E-06
G	A	0.02	-0.81867	0.174727	4.21E-06
C	T	0.03	-0.793156	0.1707092	5.02E-06
A	C	0.25	0.2804849	0.05999618	4.41E-06
G	A	0.02	0.8555772	0.1762257	1.94E-06
C	T	0.02	0.8274151	0.1713746	2.20E-06
G	C	0.02	0.8642568	0.1876381	6.01E-06
G	A	0.27	-0.2624927	0.05532555	3.22E-06
A	T	0.02	1.056226	0.1949963	1.29E-07
G	C	0.36	0.2525124	0.05362963	3.80E-06
G	A	0.43	0.2359438	0.05220816	8.82E-06
T	C	0.42	0.2367709	0.05265976	9.76E-06
T	G	0.43	0.2371641	0.05257522	9.15E-06
A	T	0.42	0.2557092	0.05228736	1.64E-06
G	GA	0.44	0.2330817	0.05128305	7.88E-06
C	T	0.42	0.248534	0.05247607	3.35E-06
T	C	0.42	0.252896	0.05252157	2.33E-06
T	C	0.32	0.2817744	0.05519782	5.96E-07
C	T	0.36	0.2496713	0.05370262	4.96E-06
C	T	0.36	0.2496713	0.05370262	4.96E-06
A	C	0.24	0.2851811	0.06144253	5.13E-06
A	T	0.36	-0.2518605	0.05321237	3.39E-06
C	T	0.4	-0.2584746	0.05335148	2.03E-06
G	C	0.01	1.236119	0.2734736	8.79E-06
G	T	0.03	0.7287845	0.1559718	4.46E-06
T	TTG	0.06	-0.5251301	0.08610701	4.05E-09
C	G	0.03	0.5928719	0.09791357	4.61E-09
G	A	0.01	0.7577666	0.1233124	2.98E-09
C	G	0.35	-0.1999537	0.03251039	3.32E-09
G	A	0.05	-0.6180555	0.1005561	2.78E-09

A	G	0.04	-0.6430251	0.1078331	7.88E-09
T	C	0.33	0.1574523	0.02634114	7.05E-09
A	C	0.03	0.4562078	0.07623175	6.91E-09
C	T	0.05	0.3213839	0.05404142	8.25E-09
GGTCTGGTAACAGGA	C	0.12	-0.167549	0.03720492	9.46E-06
T	C	0.03	-0.3077686	0.06804712	8.69E-06
T	C	0.02	-0.429894	0.09458019	7.87E-06
C	T	0.06	-0.2398448	0.05100971	3.91E-06
G	C	0.06	-0.2426936	0.05144489	3.64E-06
G	GGTGT	0.42	-0.1209622	0.02691234	9.83E-06
G	A	0.08	-0.2436763	0.04672067	3.49E-07
T	C	0.38	-0.1020001	0.02262335	9.25E-06
C	T	0.02	-0.397606	0.08761092	8.12E-06
TGATAGATA	T	0.02	-0.493545	0.09408181	3.00E-07
TC	T	0.11	-0.1798596	0.0398768	9.17E-06
CT	C	0.11	-0.1798596	0.0398768	9.17E-06
G	A	0.06	-0.2237862	0.04750833	3.76E-06
G	A	0.31	-0.1211301	0.02558735	3.38E-06
G	T	0.02	-0.4171784	0.09272772	9.65E-06
A	ATGTGTG	0.4	0.1149296	0.02500099	6.26E-06
T	TCACACACA	0.01	-0.5129615	0.1107396	5.35E-06
A	T	0.13	0.1713614	0.03483172	1.44E-06
A	G	0.02	-0.4563147	0.09659855	3.54E-06
G	A	0.07	0.2184277	0.04740992	5.98E-06
A	T	0.09	0.1903463	0.0416821	7.16E-06
G	A	0.05	-0.2573258	0.0566804	8.06E-06
T	TTTG	0.06	-0.2462617	0.05320258	5.43E-06
C	T	0.04	-0.3096801	0.06571883	3.73E-06
G	A	0.04	-0.3150538	0.06506617	2.06E-06
T	G	0.04	-0.3096801	0.06571883	3.73E-06
C	T	0.04	-0.2757758	0.06133531	9.76E-06
TTTAAAAAA	T	0.04	-0.3064977	0.06756759	8.19E-06
TGATAATAACAG	T	0.04	-0.315594	0.06391715	1.32E-06
C	A	0.04	-0.3037311	0.06345392	2.66E-06
G	A	0.04	-0.3037311	0.06345392	2.66E-06
A	G	0.04	-0.3037311	0.06345392	2.66E-06
G	GA	0.25	0.1243158	0.02722982	7.20E-06
G	C	0.26	0.1271209	0.02715003	4.27E-06
A	T	0.25	0.1260374	0.02780154	8.29E-06
C	T	0.18	-0.1476949	0.03228279	6.90E-06
C	G	0.18	-0.1465396	0.03241207	8.75E-06
T	G	0.14	-0.1618489	0.03586238	9.07E-06
T	C	0.11	-0.3352466	0.0564943	8.82E-09
C	CT	0.15	-0.2951326	0.04986882	9.61E-09
A	G	0.11	-0.3352466	0.0564943	8.82E-09
A	T	0.11	-0.3352466	0.0564943	8.82E-09
G	A	0.11	-0.3352466	0.0564943	8.82E-09
T	A	0.11	-0.3353347	0.0566343	9.46E-09
A	G	0.11	-0.3352466	0.0564943	8.82E-09
G	A	0.11	-0.3352466	0.0564943	8.82E-09

C	T	0.05	0.4895337	0.08211703	7.62E-09
C	T	0.35	-0.2848118	0.04763383	6.93E-09
AACAC	A	0.01	-1.129677	0.2306507	1.59E-06
C	CG	0.04	-0.6402156	0.1358647	3.74E-06
C	T	0.05	-0.5739116	0.1252068	6.65E-06
C	T	0.09	-0.4321415	0.08894699	1.91E-06
C	T	0.09	-0.4430285	0.089624	1.29E-06
A	G	0.09	-0.4239945	0.08989915	3.67E-06
C	CGA	0.38	0.2451183	0.05276309	5.04E-06
T	C	0.35	0.2523086	0.05493345	6.38E-06
TC	T	0.44	-0.2319529	0.05126781	8.64E-06
TTTTG	T	0.06	0.5573754	0.1144311	1.81E-06
C	T	0.07	0.5013836	0.1042377	2.39E-06
C	G	0.1	-0.4019635	0.0843661	2.95E-06
A	T	0.03	-0.7305931	0.1601856	7.36E-06
A	T	0.03	-0.7305931	0.1601856	7.36E-06
T	C	0.03	-0.7305931	0.1601856	7.36E-06
C	T	0.03	-0.7305931	0.1601856	7.36E-06
C	T	0.03	-0.7305931	0.1601856	7.36E-06
G	A	0.03	-0.7305931	0.1601856	7.36E-06
CTGTT	C	0.03	-0.7305931	0.1601856	7.36E-06
C	A	0.03	-0.7305931	0.1601856	7.36E-06
G	A	0.03	-0.7305931	0.1601856	7.36E-06
T	TTTTTCTTTTC	0.01	-1.140517	0.2496476	7.11E-06
G	A	0.02	-0.9136268	0.1936323	3.63E-06
T	TCACACACA	0.01	-1.33972	0.2503283	1.78E-07
A	ATG	0.13	0.4124777	0.08431242	1.63E-06
A	G	0.02	-0.8276253	0.1785705	5.30E-06
AG	A	0.06	-0.5238103	0.1100593	3.02E-06
A	C	0.01	-1.075845	0.2317029	5.10E-06
C	CT	0.04	0.6529734	0.136048	2.51E-06
G	A	0.04	0.6067665	0.133824	8.28E-06
A	G	0.02	-0.8867446	0.1956864	8.38E-06
T	C	0.27	0.2607074	0.05719137	7.43E-06
C	G	0.03	-0.8054314	0.1608553	9.52E-07
G	A	0.03	-0.7742063	0.164475	3.82E-06
G	GGA	0.06	-0.5240417	0.1149875	7.47E-06
T	G	0.02	-0.7734391	0.1715316	9.24E-06
G	A	0.02	-0.7734391	0.1715316	9.24E-06
T	C	0.02	-0.7734391	0.1715316	9.24E-06
T	G	0.02	-0.7734391	0.1715316	9.24E-06
G	A	0.02	-0.7734391	0.1715316	9.24E-06
A	G	0.02	-0.7734391	0.1715316	9.24E-06
CA	C	0.02	-0.7734391	0.1715316	9.24E-06
G	C	0.02	-0.7734391	0.1715316	9.24E-06
G	C	0.02	-0.7734391	0.1715316	9.24E-06
C	CGTGTGTGT	0.02	-0.918708	0.1887594	1.84E-06
C	CA	0.03	-0.6453426	0.1367204	3.61E-06
A	C	0.36	-0.2675372	0.05302509	7.94E-07
G	A	0.02	-0.9315179	0.2023403	6.08E-06

G	GT	0.02	-0.9543101	0.1976565	2.20E-06
C	G	0.02	-0.9773772	0.2068451	3.52E-06
G	A	0.02	-0.8736499	0.1795147	1.84E-06
C	T	0.02	-0.8537509	0.1831	4.67E-06
C	T	0.15	0.3296143	0.0723053	7.43E-06
G	C	0.15	0.3374754	0.07329662	6.07E-06
G	A	0.15	0.3374754	0.07329662	6.07E-06
G	C	0.16	0.331683	0.07151403	5.22E-06
C	A	0.16	0.3278028	0.07156362	6.74E-06
C	T	0.16	0.3222553	0.0708314	7.73E-06
G	A	0.03	-0.7916749	0.166001	2.89E-06
G	A	0.02	-0.8599902	0.1703711	7.85E-07
T	C	0.08	-0.4308937	0.09587787	9.86E-06
G	A	0.01	-1.03751	0.2247677	5.76E-06
T	C	0.02	-0.8240569	0.1785877	5.80E-06
T	C	0.05	-0.5640221	0.1164284	2.04E-06
G	A	0.04	-0.6000892	0.129244	5.10E-06
T	G	0.03	-0.7226626	0.1552216	4.82E-06
C	G	0.03	-0.7226626	0.1552216	4.82E-06
T	C	0.03	-0.7226626	0.1552216	4.82E-06
C	T	0.03	-0.7226626	0.1552216	4.82E-06
T	A	0.03	-0.7226626	0.1552216	4.82E-06
C	T	0.03	-0.7226626	0.1552216	4.82E-06
G	GAGC	0.03	-0.7226626	0.1552216	4.82E-06
A	G	0.03	-0.7226626	0.1552216	4.82E-06
A	C	0.03	-0.7226626	0.1552216	4.82E-06
T	TCAAGCCA	0.03	-0.7226626	0.1552216	4.82E-06
T	C	0.03	-0.7226626	0.1552216	4.82E-06
G	A	0.03	-0.7226626	0.1552216	4.82E-06
A	T	0.03	-0.7226626	0.1552216	4.82E-06
G	A	0.03	-0.7226626	0.1552216	4.82E-06
C	T	0.03	-0.7226626	0.1552216	4.82E-06
C	T	0.03	-0.7226626	0.1552216	4.82E-06
T	A	0.03	-0.7226626	0.1552216	4.82E-06
CT	C	0.03	-0.7161061	0.1430609	9.60E-07
G	A	0.03	-0.654715	0.1411108	5.18E-06
A	G	0.03	-0.654715	0.1411108	5.18E-06
A	T	0.03	-0.654715	0.1411108	5.18E-06
C	T	0.03	-0.654715	0.1411108	5.18E-06
G	C	0.03	-0.683475	0.142342	2.49E-06
A	T	0.03	-0.654715	0.1411108	5.18E-06
A	G	0.03	-0.6823034	0.1503126	8.09E-06
C	T	0.25	-0.2785317	0.05987449	4.90E-06
G	T	0.21	-0.3471936	0.06352	1.01E-07
C	T	0.2	-0.343972	0.06470928	2.14E-07
A	G	0.21	-0.3478247	0.0632356	8.46E-08
T	C	0.22	-0.3362863	0.06281356	1.77E-07
C	T	0.27	-0.2874292	0.05993368	2.55E-06
A	G	0.23	-0.3336419	0.06251797	1.92E-07
C	A	0.21	-0.3592905	0.06317579	3.24E-08

A	G	0.22	-0.3410919	0.06297745	1.29E-07
T	C	0.22	-0.3268883	0.06350339	4.86E-07
C	G	0.23	-0.3224674	0.06320102	6.05E-07
G	C	0.27	-0.3024312	0.06003475	8.24E-07
G	A	0.23	-0.3028403	0.06280279	2.26E-06
A	G	0.23	-0.3028403	0.06280279	2.26E-06
G	A	0.23	-0.2978694	0.06237541	2.80E-06
T	C	0.29	-0.2698788	0.05888152	6.66E-06
A	G	0.04	-0.5804206	0.1265515	6.57E-06
C	T	0.05	-0.5420461	0.1204367	9.59E-06
T	A	0.03	-0.7203254	0.1480919	1.86E-06
A	G	0.02	-0.8643225	0.1853843	4.68E-06
G	A	0.02	-0.8688968	0.1759392	1.32E-06
G	A	0.01	-1.178547	0.2480571	3.13E-06
T	C	0.01	-1.178547	0.2480571	3.13E-06
G	A	0.01	-1.178547	0.2480571	3.13E-06
A	T	0.01	-1.178547	0.2480571	3.13E-06
A	G	0.01	-1.178547	0.2480571	3.13E-06
CAAG	C	0.01	-1.178547	0.2480571	3.13E-06
G	GA	0.01	-1.178547	0.2480571	3.13E-06
C	CA	0.01	-1.178547	0.2480571	3.13E-06
C	T	0.01	-1.178547	0.2480571	3.13E-06
T	A	0.01	-1.178547	0.2480571	3.13E-06
T	C	0.01	-1.178547	0.2480571	3.13E-06
A	G	0.01	-1.140015	0.2535223	9.75E-06
C	G	0.01	-1.178547	0.2480571	3.13E-06
A	G	0.01	-1.178547	0.2480571	3.13E-06
C	T	0.01	-1.178547	0.2480571	3.13E-06
G	A	0.01	-1.178547	0.2480571	3.13E-06
A	G	0.01	-1.095702	0.2400904	7.27E-06
C	A	0.02	-0.9035572	0.1718578	2.84E-07
C	A	0.01	-1.237	0.2732729	8.56E-06
C	T	0.06	-0.5012742	0.1077788	4.93E-06
C	A	0.06	-0.5267445	0.1096529	2.46E-06
T	C	0.09	-0.4577691	0.09496859	2.28E-06
A	G	0.09	-0.4577691	0.09496859	2.28E-06
A	G	0.09	-0.4577691	0.09496859	2.28E-06
A	T	0.09	-0.4577691	0.09496859	2.28E-06
C	G	0.07	-0.4661298	0.1037526	9.93E-06
G	A	0.07	-0.4661298	0.1037526	9.93E-06
G	A	0.07	-0.4661298	0.1037526	9.93E-06
G	A	0.07	-0.4661298	0.1037526	9.93E-06
A	G	0.07	-0.4661298	0.1037526	9.93E-06
G	A	0.07	-0.4733381	0.1051888	9.62E-06
AC	A	0.07	-0.4733381	0.1051888	9.62E-06
C	T	0.07	-0.4736607	0.1054157	9.90E-06
C	T	0.09	-0.4405209	0.09340078	3.67E-06
C	T	0.07	-0.4698657	0.1034035	7.93E-06
A	T	0.07	-0.4891907	0.1057277	5.49E-06
G	A	0.07	-0.470175	0.1029161	7.11E-06

C	CTG	0.02	-0.9569123	0.2070453	5.61E-06
G	C	0.03	-0.8023761	0.1593756	8.37E-07
A	G	0.01	-1.192366	0.2377074	9.13E-07
G	C	0.05	-0.5798832	0.12352	4.05E-06
T	C	0.01	-1.244693	0.2657257	4.24E-06
A	G	0.01	-1.173249	0.2591569	8.53E-06
C	A	0.03	-0.6536493	0.140482	4.88E-06
T	C	0.02	-0.8696718	0.1902057	7.00E-06
C	T	0.02	-0.9407091	0.1888041	1.07E-06
A	G	0.04	-0.6313863	0.1340891	3.80E-06
G	A	0.04	-0.5809598	0.1286968	9.04E-06
T	C	0.04	-0.6147427	0.1294979	3.19E-06
TC	T	0.04	-0.6147427	0.1294979	3.19E-06
G	A	0.04	-0.6378082	0.1299095	1.51E-06
C	T	0.04	-0.6378082	0.1299095	1.51E-06
TCTCAA	T	0.04	-0.5917331	0.1308571	8.73E-06
C	T	0.04	-0.5971979	0.1307981	7.20E-06
A	T	0.03	-0.7682315	0.1624408	3.46E-06
A	G	0.01	-1.266262	0.2479483	5.91E-07
A	AC	0.11	-0.3973408	0.08730826	7.68E-06
C	A	0.01	-0.6788166	0.1120022	4.51E-09
T	C	0.01	-0.6828247	0.1081764	1.13E-09
A	G	0.01	-0.6870175	0.1139436	5.34E-09
T	C	0.01	-0.6828247	0.1081764	1.13E-09
T	TC	0.01	0.7094369	0.1196821	9.13E-09
A	G	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
A	T	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
C	T	0.01	0.7094369	0.1196821	9.13E-09
C	T	0.01	0.7094369	0.1196821	9.13E-09
T	C	0.01	0.7094369	0.1196821	9.13E-09
C	G	0.01	0.7094369	0.1196821	9.13E-09
G	C	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
T	C	0.01	0.7094369	0.1196821	9.13E-09
AC	A	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
A	G	0.01	0.7094369	0.1196821	9.13E-09
C	T	0.01	0.7094369	0.1196821	9.13E-09
C	T	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7329418	0.1224559	6.70E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
G	T	0.01	0.7094369	0.1196821	9.13E-09
G	A	0.01	0.7094369	0.1196821	9.13E-09
A	G	0.01	0.7094369	0.1196821	9.13E-09
A	G	0.02	0.7382272	0.1102261	1.25E-10
T	C	0.01	-0.5048568	0.0826537	3.46E-09

T	G	0.05	-0.423225	0.0711279	8.37E-09
C	T	0.05	-0.5489002	0.09142566	6.05E-09
C	CT	0.15	-0.2663827	0.04186186	8.81E-10
T	C	0.15	-0.2627564	0.0418828	1.45E-09
A	G	0.01	-0.7822599	0.1263019	2.32E-09
TTC	T	0.01	0.8347448	0.1395187	7.08E-09
G	A	0.01	0.8110074	0.1343183	5.27E-09
C	T	0.02	-0.413461	0.09140688	8.67E-06
G	A	0.01	-0.4613709	0.09823397	4.00E-06
C	T	0.01	-0.4613709	0.09823397	4.00E-06
G	GTTTAT	0.02	-0.3893907	0.0810684	2.46E-06
TA	T	0.02	-0.3184692	0.06994864	7.61E-06
C	T	0.02	-0.3544099	0.07659106	5.47E-06
G	A	0.03	-0.3099625	0.0686195	8.91E-06
AC	A	0.02	-0.4022787	0.08719704	5.82E-06
G	C	0.03	-0.3284548	0.06830076	2.40E-06
T	C	0.03	-0.3005646	0.06486795	5.32E-06
C	T	0.03	-0.3533112	0.06928435	6.12E-07
T	G	0.03	-0.294367	0.06482698	8.03E-06
T	C	0.04	-0.2922017	0.06064206	2.30E-06
A	G	0.21	-0.12737	0.02789249	7.17E-06
A	G	0.01	-0.4981387	0.09996712	1.07E-06
G	A	0.02	-0.4359416	0.08883667	1.52E-06
C	T	0.02	-0.3984938	0.08721529	7.08E-06
G	A	0.02	-0.3984938	0.08721529	7.08E-06
G	A	0.02	-0.3984938	0.08721529	7.08E-06
G	A	0.02	-0.3984938	0.08721529	7.08E-06
G	C	0.02	-0.3900498	0.0671874	1.74E-08
G	A	0.06	-0.2119739	0.04613268	6.32E-06
A	C	0.06	-0.2119739	0.04613268	6.32E-06
C	T	0.06	-0.2119739	0.04613268	6.32E-06
C	T	0.06	-0.2119739	0.04613268	6.32E-06
T	C	0.06	-0.2282844	0.04795917	3.00E-06
C	T	0.01	-0.5072665	0.1097954	5.65E-06
A	G	0.06	-0.214051	0.04652434	6.15E-06
C	T	0.02	-0.3623557	0.07956896	7.57E-06
A	AACAC	0.02	-0.3565008	0.07819134	7.40E-06
G	A	0.01	-0.4429498	0.09296931	2.94E-06
G	GTTTA	0.06	-0.2159628	0.04797604	9.54E-06
C	G	0.07	-0.1934335	0.04121568	4.07E-06
T	C	0.23	0.1274224	0.02804688	7.94E-06
A	G	0.23	0.1274224	0.02804688	7.94E-06
G	A	0.05	-0.246831	0.05322132	5.22E-06
GTTGT	G	0.05	-0.26266	0.0543643	2.16E-06
C	CA	0.07	-0.2216526	0.04539864	1.71E-06
G	A	0.01	-0.4004514	0.08690663	5.96E-06
G	T	0.01	-0.4916667	0.1032552	2.98E-06
G	A	0.01	-0.5776801	0.1092669	2.46E-07
G	A	0.01	-0.5776801	0.1092669	2.46E-07
C	T	0.02	-0.4100007	0.08209654	1.01E-06

TG	T	0.3	-0.1131331	0.02333051	1.99E-06
A	G	0.03	-0.3067983	0.06825282	9.81E-06
C	T	0.03	-0.2995849	0.06530096	6.52E-06
CGTT	C	0.01	-0.465361	0.09762937	2.91E-06
A	T	0.02	-0.4255512	0.09118837	4.58E-06
G	A	0.48	-0.0990674	0.02195898	9.13E-06
T	C	0.03	-0.3200155	0.06902671	5.26E-06
C	T	0.02	-0.3384166	0.07373047	6.46E-06
G	GTCAAATAC	0.16	-0.1410683	0.02981393	3.42E-06
A	AGT	0.02	-0.3680243	0.07978164	5.83E-06
T	G	0.02	-0.3680243	0.07978164	5.83E-06
A	G	0.02	-0.3680243	0.07978164	5.83E-06
G	A	0.02	-0.3680243	0.07978164	5.83E-06
G	T	0.02	-0.3680243	0.07978164	5.83E-06
T	C	0.02	-0.358589	0.07583383	3.46E-06
T	G	0.01	-0.4301867	0.09552276	9.46E-06
CA	C	0.02	-0.3680243	0.07978164	5.83E-06
A	G	0.02	-0.3680243	0.07978164	5.83E-06
T	A	0.02	-0.3680243	0.07978164	5.83E-06
G	A	0.02	-0.3680243	0.07978164	5.83E-06
AACACAC	A	0.03	-0.297676	0.06607796	9.40E-06
C	CTG	0.05	-0.2526094	0.05383004	4.08E-06
G	A	0.01	-0.5066442	0.1000747	7.30E-07
G	T	0.01	-0.5066442	0.1000747	7.30E-07
A	G	0.01	-0.5057793	0.109564	5.74E-06
CA	C	0.09	-0.160761	0.03471875	5.39E-06
A	C	0.32	0.1093344	0.02422204	9.04E-06
G	T	0.05	-0.2360192	0.05172845	7.29E-06
G	A	0.11	-0.1637729	0.03450166	3.19E-06
A	G	0.1	-0.1744301	0.03769392	5.46E-06
C	A	0.12	-0.1590653	0.03358479	3.35E-06
A	G	0.01	-0.4095977	0.08899416	6.11E-06
A	T	0.02	-0.3510237	0.07638501	6.30E-06
C	T	0.02	-0.4136895	0.09109307	8.01E-06
CA	C	0.02	-0.3669639	0.07409833	1.23E-06
C	T	0.04	-0.2646145	0.05484691	2.23E-06
G	T	0.05	-0.2437116	0.05308848	6.44E-06
A	G	0.05	-0.2437116	0.05308848	6.44E-06
T	C	0.03	-0.3299872	0.07113717	5.20E-06
T	C	0.21	-0.1206615	0.02652256	7.73E-06
T	C	0.37	-0.1006894	0.0220503	7.17E-06
A	G	0.37	-0.0992468	0.02198531	9.02E-06
T	C	0.36	-0.1013015	0.02202371	6.19E-06
T	TGAAA	0.29	-0.1078229	0.02378983	8.33E-06
G	A	0.4	-0.1053016	0.02312143	7.56E-06
T	A	0.02	-0.4233277	0.08565016	1.29E-06
A	T	0.02	-0.3646914	0.07712952	3.47E-06
G	A	0.02	-0.3789285	0.07586734	1.01E-06
T	C	0.02	-0.3789285	0.07586734	1.01E-06
AT	A	0.02	-0.3923944	0.0746486	2.85E-07

T	C	0.03	-0.3354138	0.06672818	8.67E-07
AGAC	A	0.01	-0.5442082	0.1027068	2.32E-07
A	C	0.01	-0.4591308	0.1008615	7.64E-06
G	A	0.02	-0.8249755	0.1382481	8.99E-09
C	A	0.02	-0.8568429	0.138994	3.32E-09
C	A	0.01	1.017642	0.1687385	6.76E-09
A	G	0.01	1.017642	0.1687385	6.76E-09
T	C	0.01	1.017642	0.1687385	6.76E-09
A	AT	0.01	0.9217702	0.1425606	6.57E-10
G	A	0.01	1.222325	0.1884127	5.84E-10
A	T	0.02	-0.7557487	0.1247065	4.51E-09
TTGTGTGTGTGTGTG	T	0.09	0.2201418	0.04573544	2.35E-06
G	GT	0.04	0.3105215	0.06490638	2.69E-06
G	A	0.04	0.2996092	0.06602691	8.14E-06
A	G	0.04	0.2996092	0.06602691	8.14E-06
A	G	0.04	0.2984383	0.0644422	5.38E-06
T	TTCTC	0.06	-0.241286	0.05225048	5.70E-06
A	G	0.47	-0.1347004	0.02624215	5.21E-07
A	G	0.47	-0.1321525	0.0262325	8.22E-07
C	A	0.2	-0.1574343	0.03275468	2.43E-06
TTGTG	T	0.03	0.3627631	0.07848534	5.60E-06
C	G	0.42	0.1183942	0.02563415	5.68E-06
G	C	0.42	0.1185027	0.02579944	6.36E-06
GC	G	0.46	-0.1150892	0.02549909	9.05E-06
A	G	0.24	0.1422752	0.03120586	7.40E-06
C	T	0.14	0.1770175	0.03836821	5.81E-06
C	T	0.14	0.1739048	0.03835092	8.25E-06
G	C	0.14	0.1739048	0.03835092	8.25E-06
C	T	0.14	0.1739048	0.03835092	8.25E-06
C	T	0.14	0.1739048	0.03835092	8.25E-06
A	G	0.14	0.1739048	0.03835092	8.25E-06
T	C	0.13	0.1815655	0.03855896	3.79E-06
T	TACACACACAC	0.05	0.2980338	0.05957164	9.70E-07
AT	A	0.12	0.1884899	0.03965348	3.09E-06
G	A	0.05	0.2863575	0.06209767	5.87E-06
T	C	0.05	0.2886591	0.0629554	6.60E-06
G	A	0.05	0.2886591	0.0629554	6.60E-06
G	A	0.05	0.2767593	0.06057261	7.09E-06
T	C	0.38	0.1172355	0.0247839	3.44E-06
CA	C	0.42	0.1213142	0.02472923	1.53E-06
C	G	0.35	0.1211253	0.02674406	8.45E-06
T	C	0.02	0.3858945	0.08500992	8.08E-06
T	C	0.46	0.1174099	0.02576903	7.50E-06
T	C	0.46	0.1179901	0.02598476	8.03E-06
G	A	0.47	0.1225823	0.02592727	3.47E-06
G	T	0.46	0.1168313	0.0260116	9.96E-06
C	T	0.47	0.1184165	0.02597462	7.41E-06
C	T	0.46	0.1168313	0.0260116	9.96E-06
T	G	0.47	0.1199098	0.02589546	5.39E-06
C	T	0.47	0.1199098	0.02589546	5.39E-06

A	C	0.47	0.1179911	0.02591108	7.58E-06
T	G	0.47	0.1195324	0.0259417	5.97E-06
A	G	0.47	0.1188041	0.02598332	6.98E-06
A	G	0.47	0.1223176	0.02591342	3.60E-06
A	G	0.49	0.1218131	0.02520683	2.15E-06
C	A	0.46	0.1198209	0.02599746	5.93E-06
G	A	0.47	0.1171956	0.02598738	9.20E-06
A	AT	0.47	0.1219409	0.02598652	4.08E-06
C	T	0.47	0.1239438	0.02605456	3.04E-06
G	C	0.47	0.1199281	0.0260142	5.90E-06
A	G	0.47	0.1174071	0.0260078	9.02E-06
A	T	0.46	0.1223567	0.02599666	3.83E-06
A	G	0.46	0.1233634	0.02596382	3.12E-06
T	A	0.47	0.1250175	0.025999	2.40E-06
T	C	0.47	0.1185377	0.02604157	7.64E-06
T	C	0.47	0.1204466	0.02612467	5.90E-06
C	CA	0.36	0.1199381	0.02603665	6.00E-06
T	A	0.37	0.1247406	0.02590049	2.32E-06
G	T	0.36	0.1213728	0.02651447	6.82E-06
A	C	0.37	0.1179783	0.02580285	6.98E-06
T	G	0.36	0.1203456	0.02638292	7.33E-06
G	A	0.09	-0.2357197	0.04661042	7.49E-07
T	A	0.03	-0.3259654	0.07137979	7.16E-06
C	A	0.26	0.1399157	0.02922137	2.64E-06
C	T	0.26	0.1412056	0.02916072	2.06E-06
G	A	0.26	0.1340915	0.0292298	6.53E-06
A	G	0.36	0.1197782	0.02628977	7.50E-06
TTC	T	0.01	-1.106528	0.2431446	7.68E-06
A	G	0.01	1.193245	0.2435045	1.57E-06
G	A	0.01	1.138376	0.2426072	4.08E-06
A	G	0.01	1.112521	0.2385191	4.63E-06
T	A	0.01	1.140469	0.2419766	3.72E-06
T	A	0.01	1.1236	0.2420248	5.11E-06
C	T	0.01	1.112521	0.2385191	4.63E-06
C	T	0.01	1.158584	0.242002	2.65E-06
C	A	0.01	1.112521	0.2385191	4.63E-06
G	T	0.01	1.112521	0.2385191	4.63E-06
CT	C	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
A	T	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
T	C	0.01	1.112521	0.2385191	4.63E-06
C	A	0.01	1.112521	0.2385191	4.63E-06
A	G	0.01	1.112521	0.2385191	4.63E-06
T	C	0.01	1.112521	0.2385191	4.63E-06
A	G	0.01	1.112521	0.2385191	4.63E-06
C	A	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
G	T	0.01	1.112521	0.2385191	4.63E-06

A	G	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
T	C	0.01	1.112521	0.2385191	4.63E-06
T	C	0.01	1.112521	0.2385191	4.63E-06
G	GT	0.01	1.128749	0.249639	8.74E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
C	T	0.01	1.112521	0.2385191	4.63E-06
A	G	0.01	1.112521	0.2385191	4.63E-06
G	A	0.01	1.112521	0.2385191	4.63E-06
A	T	0.01	1.112521	0.2385191	4.63E-06
G	A	0.14	-0.3603134	0.07894498	7.24E-06
C	A	0.02	0.8221009	0.1767763	4.93E-06
A	T	0.35	0.2588292	0.0560962	5.80E-06
T	G	0.02	1.017574	0.2162744	3.86E-06
G	A	0.02	1.017574	0.2162744	3.86E-06
A	C	0.02	1.017574	0.2162744	3.86E-06
C	A	0.02	1.017574	0.2162744	3.86E-06
G	T	0.02	1.017574	0.2162744	3.86E-06
T	C	0.02	1.017574	0.2162744	3.86E-06
C	A	0.02	1.017574	0.2162744	3.86E-06
G	A	0.38	-0.2568764	0.0557741	6.02E-06
T	C	0.38	-0.2518384	0.05566367	8.63E-06
G	C	0.38	-0.2545508	0.05544869	6.44E-06
G	A	0.37	-0.2533553	0.05593766	8.45E-06
T	C	0.43	-0.2557603	0.05468951	4.38E-06
A	G	0.39	-0.2623646	0.05597295	4.18E-06
G	T	0.42	-0.2492127	0.05474813	7.64E-06
A	G	0.42	-0.2534648	0.05475139	5.42E-06
G	A	0.38	-0.2617761	0.05558448	3.78E-06
C	A	0.42	-0.2461151	0.05476532	9.86E-06
A	G	0.43	-0.247777	0.05497762	9.32E-06
C	T	0.42	-0.2489632	0.0546719	7.58E-06
T	C	0.43	-0.2486778	0.05483031	8.22E-06
G	A	0.43	-0.2575781	0.05469497	3.78E-06
C	A	0.42	-0.2525688	0.05482424	5.99E-06
G	A	0.09	0.4269037	0.09418654	8.32E-06
G	C	0.05	-0.6034295	0.1314574	6.45E-06
A	C	0.05	-0.6034295	0.1314574	6.45E-06
C	T	0.05	-0.6034295	0.1314574	6.45E-06
A	ATG	0.18	-0.3272337	0.0724985	9.04E-06
A	AACAC	0.41	0.2428987	0.05367114	8.58E-06
C	CTCTCTG	0.01	-1.224845	0.2688874	7.53E-06
C	G	0.05	0.5785993	0.1281323	8.97E-06
C	T	0.07	0.5148115	0.1104799	4.73E-06
T	G	0.03	0.8070176	0.1709541	3.59E-06
A	G	0.03	0.8070176	0.1709541	3.59E-06
G	A	0.03	0.6961109	0.1520645	6.82E-06
G	A	0.04	0.6386607	0.1408543	8.26E-06
C	CT	0.03	0.7046403	0.1555432	8.41E-06
G	A	0.2	0.317523	0.07064869	9.84E-06

C	A	0.32	-0.2637736	0.05810928	8.08E-06
A	G	0.38	-0.2535557	0.05553449	7.19E-06
A	G	0.48	-0.2500852	0.05521127	8.43E-06
ATG	A	0.38	-0.253807	0.05560464	7.23E-06
T	A	0.38	-0.2605962	0.05532724	3.77E-06
A	G	0.36	0.2523381	0.05528215	7.23E-06
A	G	0.1	0.3937483	0.08720104	8.97E-06
ATC	A	0.06	0.5295751	0.1156118	6.73E-06
A	T	0.01	1.17856	0.2383233	1.27E-06
G	A	0.01	1.233803	0.2623451	3.89E-06
G	A	0.01	1.272997	0.2386922	1.95E-07
T	G	0.02	0.873476	0.1851037	3.62E-06
A	G	0.01	1.255846	0.2580484	1.84E-06
C	T	0.01	1.342831	0.2748169	1.68E-06
G	A	0.02	0.8495095	0.1882597	9.09E-06
T	TTGTG	0.02	0.9940586	0.2146074	5.35E-06
T	C	0.1	-0.4170503	0.09233352	8.92E-06
T	C	0.25	0.3100393	0.06418916	2.18E-06
T	G	0.34	0.2653452	0.05779152	6.42E-06
A	C	0.24	0.3195118	0.0643744	1.17E-06
C	CT	0.23	0.3289854	0.06474284	6.67E-07
T	C	0.25	0.2969654	0.06452052	6.10E-06
C	T	0.24	0.2971651	0.06445727	5.90E-06
G	A	0.24	0.2977578	0.06440175	5.56E-06
C	T	0.24	0.2995664	0.06548832	6.92E-06
G	A	0.24	0.2971894	0.06533819	7.76E-06
A	G	0.26	0.3020318	0.06440304	4.13E-06
A	G	0.33	0.2815525	0.05844282	2.31E-06
C	T	0.01	1.171454	0.2598617	9.27E-06
A	G	0.01	1.171454	0.2598617	9.27E-06
CAA	C	0.01	1.223318	0.2699437	8.35E-06
G	A	0.01	1.223318	0.2699437	8.35E-06
GT	G	0.05	-0.6774947	0.1278697	2.32E-07
C	A	0.07	-0.5218538	0.108576	2.43E-06
G	T	0.07	-0.5003694	0.1105514	8.56E-06
TTA	T	0.01	1.160578	0.2574619	9.28E-06
C	T	0.32	0.2574455	0.05731513	9.95E-06
A	C	0.37	0.2495031	0.05554603	9.95E-06
A	T	0.03	-0.69692	0.152761	7.30E-06
T	G	0.07	0.509232	0.1068667	2.93E-06
ATG	A	0.05	-0.6013129	0.1279364	3.94E-06
T	A	0.03	-0.6898478	0.150153	6.33E-06
A	G	0.02	0.8777339	0.1837753	2.79E-06
T	C	0.11	-0.4229422	0.08897332	3.09E-06
T	TA	0.02	0.926062	0.1922968	2.32E-06
G	C	0.15	-0.3326537	0.07336797	8.27E-06
A	T	0.02	0.9291224	0.1945161	2.78E-06
A	G	0.02	0.9291224	0.1945161	2.78E-06
A	T	0.02	1.049767	0.2074893	7.41E-07
TA	T	0.03	-0.7318331	0.1571779	4.81E-06

T	C	0.03	-0.7239919	0.1546107	4.26E-06
G	A	0.03	-0.7157663	0.1549984	5.70E-06
T	C	0.01	1.08928	0.2408802	8.72E-06
C	T	0.01	1.08928	0.2408802	8.72E-06
A	G	0.01	1.08928	0.2408802	8.72E-06
A	G	0.01	1.08928	0.2408802	8.72E-06
G	T	0.01	1.08928	0.2408802	8.72E-06
AC	A	0.01	1.08928	0.2408802	8.72E-06
T	C	0.01	1.08928	0.2408802	8.72E-06
G	A	0.01	1.08928	0.2408802	8.72E-06
G	GCGCAC	0.03	0.8241308	0.1734337	3.12E-06
C	G	0.01	0.4053173	0.06824923	8.61E-09
T	A	0.04	0.5283003	0.08148247	4.27E-10
A	T	0.03	0.5585521	0.09365789	7.54E-09
T	TC	0.01	0.8117018	0.1263111	5.91E-10
A	G	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
A	T	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
C	T	0.01	0.8117018	0.1263111	5.91E-10
C	T	0.01	0.8117018	0.1263111	5.91E-10
T	C	0.01	0.8117018	0.1263111	5.91E-10
C	G	0.01	0.8117018	0.1263111	5.91E-10
G	C	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
T	C	0.01	0.8117018	0.1263111	5.91E-10
AC	A	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
A	G	0.01	0.8117018	0.1263111	5.91E-10
C	T	0.01	0.8117018	0.1263111	5.91E-10
C	T	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.7820707	0.1318886	9.04E-09
G	A	0.01	0.8117018	0.1263111	5.91E-10
G	T	0.01	0.8117018	0.1263111	5.91E-10
G	A	0.01	0.8117018	0.1263111	5.91E-10
A	G	0.01	0.8117018	0.1263111	5.91E-10
T	C	0.01	0.7793337	0.1234715	1.12E-09
A	G	0.01	0.7793337	0.1234715	1.12E-09
T	C	0.01	0.7793337	0.1234715	1.12E-09
C	G	0.01	0.7793337	0.1234715	1.12E-09
C	T	0.01	0.7793337	0.1234715	1.12E-09
AG	A	0.01	0.7793337	0.1234715	1.12E-09
T	A	0.01	0.7793337	0.1234715	1.12E-09
A	G	0.01	0.7793337	0.1234715	1.12E-09
A	G	0.02	0.7968101	0.1165511	5.58E-11
A	AT	0.01	0.7793337	0.1234715	1.12E-09
GT	G	0.05	-0.3319164	0.05390893	2.64E-09
A	G	0.01	0.4217775	0.07070624	7.52E-09

G	A	0.04	0.3428154	0.0559036	3.39E-09
A	G	0.04	0.3352531	0.05411728	2.42E-09
C	T	0.04	0.3364954	0.055983	6.51E-09
C	T	0.04	0.3364954	0.055983	6.51E-09
G	A	0.04	0.3279899	0.05390747	4.39E-09
A	G	0.01	0.4096801	0.0676628	4.72E-09
T	TCA	0.02	0.4852664	0.08086134	6.18E-09
ATG	A	0.05	-0.316843	0.05327043	8.18E-09
C	G	0.01	-0.7604666	0.1274614	9.06E-09
C	T	0.01	-0.9237643	0.1502639	2.92E-09
G	C	0.01	-0.9237643	0.1502639	2.92E-09
CGTGT	C	0.04	0.4625443	0.07762941	8.08E-09
A	G	0.02	0.7100154	0.1179419	5.80E-09
G	A	0.04	0.2742898	0.04601798	7.73E-09
C	T	0.01	0.5607218	0.08693904	7.00E-10
C	G	0.01	0.5607218	0.08693904	7.00E-10
C	T	0.03	0.4026299	0.06087585	2.83E-10
C	T	0.01	0.5589445	0.0892261	1.59E-09
C	T	0.02	-0.740568	0.1570213	3.68E-06
G	A	0.01	-0.9478353	0.1980784	2.69E-06
T	A	0.21	0.2321432	0.05119286	8.27E-06
A	AT	0.04	-0.5199477	0.1135635	6.82E-06
A	AG	0.04	-0.5325863	0.1070685	1.12E-06
T	TA	0.04	-0.5013036	0.1111679	9.24E-06
A	T	0.04	-0.5033648	0.1096982	6.52E-06
T	G	0.03	-0.5393577	0.1194156	8.96E-06
T	C	0.03	-0.5393577	0.1194156	8.96E-06
T	C	0.03	-0.5432342	0.1164127	4.60E-06
G	A	0.03	-0.6116607	0.1308676	4.45E-06
CA	C	0.01	-0.886525	0.1936999	6.87E-06
G	A	0.32	-0.2035771	0.04517393	9.36E-06
A	G	0.07	-0.4222401	0.08835184	2.76E-06
C	T	0.11	-0.311837	0.06720659	5.19E-06
T	C	0.11	-0.3123684	0.06792727	6.24E-06
T	G	0.11	-0.2976763	0.06517374	7.16E-06
C	TATCTATCTATCTATCT	0.02	-0.7283839	0.1520381	2.62E-06
A	G	0.04	-0.4698919	0.1022945	6.38E-06
T	C	0.17	-0.2657456	0.05845772	7.87E-06
C	T	0.36	0.2026737	0.04210668	2.36E-06
TTGTGTG	T	0.3	-0.22299	0.0478777	4.79E-06
C	T	0.04	0.4856425	0.1066881	7.67E-06
G	A	0.04	0.4856425	0.1066881	7.67E-06
A	C	0.01	-1.040454	0.1958216	2.17E-07
G	A	0.01	-1.040454	0.1958216	2.17E-07
T	C	0.03	-0.5809593	0.1281281	8.29E-06
T	TG	0.03	-0.608726	0.1294279	3.90E-06
T	TCTCACACACACACA	0.02	-0.7109146	0.155875	7.37E-06
T	G	0.02	0.8110689	0.1781689	7.66E-06
C	T	0.02	-0.7244685	0.157471	6.18E-06
C	T	0.02	-0.691772	0.1519367	7.63E-06

G	T	0.02	-0.6953745	0.1544453	9.53E-06
G	T	0.21	-0.2461176	0.05387012	7.12E-06
C	T	0.14	-0.316181	0.06207099	6.32E-07
C	T	0.13	-0.3062157	0.06343271	2.21E-06
C	G	0.14	-0.3132227	0.06293252	1.10E-06
G	C	0.14	-0.316181	0.06207099	6.32E-07
G	A	0.14	-0.316181	0.06207099	6.32E-07
C	T	0.14	-0.316181	0.06207099	6.32E-07
T	C	0.14	-0.316181	0.06207099	6.32E-07
C	T	0.14	-0.316181	0.06207099	6.32E-07
T	C	0.14	-0.316181	0.06207099	6.32E-07
T	C	0.13	-0.3220304	0.06269209	5.14E-07
T	C	0.11	-0.3330846	0.0688727	2.12E-06
G	C	0.14	-0.3519176	0.06268979	4.77E-08
CAGGAATAGCATT	C	0.15	-0.291424	0.06029881	2.16E-06
A	G	0.14	-0.316181	0.06207099	6.32E-07
G	A	0.14	-0.316181	0.06207099	6.32E-07
C	T	0.07	-0.358295	0.07924577	8.77E-06
C	T	0.02	-0.818882	0.1695281	2.18E-06
G	A	0.02	-0.9385973	0.1796282	3.34E-07
A	G	0.04	-0.4653523	0.09982916	4.71E-06
T	G	0.05	-0.4566868	0.09761703	4.36E-06
C	T	0.01	-1.038786	0.2094367	1.19E-06
C	T	0.01	-1.038786	0.2094367	1.19E-06
TACA	T	0.01	-1.100931	0.2091434	2.77E-07
C	T	0.01	-1.045884	0.2170749	2.31E-06
G	A	0.01	-1.100931	0.2091434	2.77E-07
C	G	0.01	-1.123231	0.2018311	6.11E-08
T	A	0.01	-0.8751614	0.1918818	7.37E-06
C	T	0.04	-0.5162442	0.1142287	8.85E-06
G	T	0.04	-0.5162442	0.1142287	8.85E-06
G	T	0.04	-0.5566605	0.1142563	1.80E-06
G	C	0.04	-0.5557823	0.1134665	1.59E-06
A	G	0.04	-0.5663321	0.1153394	1.51E-06
T	G	0.03	-0.5559007	0.1235191	9.61E-06
G	A	0.01	-0.9525753	0.2098666	8.12E-06
G	A	0.11	0.300212	0.06602734	7.84E-06
A	G	0.13	-0.3093366	0.06769312	7.09E-06
C	A	0.41	0.2037692	0.04418022	5.87E-06
C	T	0.32	-0.2099341	0.04559732	6.09E-06
GA	G	0.01	-0.9672291	0.2048178	3.58E-06
T	TAC	0.03	-0.6128162	0.1246377	1.46E-06
A	G	0.01	-0.930738	0.2024371	6.26E-06
C	G	0.01	-0.930738	0.2024371	6.26E-06
A	G	0.01	-0.930738	0.2024371	6.26E-06
A	C	0.01	-0.930738	0.2024371	6.26E-06
T	C	0.01	-0.930738	0.2024371	6.26E-06
A	G	0.01	-0.9975169	0.2079846	2.56E-06
T	C	0.01	-1.028632	0.2146736	2.61E-06
A	AACACACACACAC	0.02	-0.7427263	0.1584093	4.17E-06

CA	C	0.11	-0.3182458	0.06699698	3.15E-06
G	C	0.09	-0.3326373	0.07350221	8.61E-06
G	GGTGTGT	0.07	-0.412702	0.08870357	4.90E-06
T	C	0.09	-0.3362923	0.07273107	5.57E-06
C	G	0.09	-0.3362923	0.07273107	5.57E-06
A	ATGGT	0.09	-0.3293333	0.07316833	9.59E-06
C	A	0.09	-0.3293333	0.07316833	9.59E-06
C	T	0.09	-0.3293333	0.07316833	9.59E-06
C	T	0.09	-0.3293333	0.07316833	9.59E-06
A	ACACG	0.09	-0.3386632	0.07402852	6.93E-06
G	A	0.29	-0.210787	0.04661964	8.77E-06
C	CA	0.01	-0.9050231	0.1970473	6.40E-06
G	A	0.02	-0.9757644	0.1784698	1.00E-07
G	A	0.02	-0.9757644	0.1784698	1.00E-07
G	A	0.02	-0.8033113	0.169709	3.40E-06
C	A	0.02	-0.8033113	0.169709	3.40E-06
G	A	0.02	-0.8033113	0.169709	3.40E-06
C	T	0.02	-0.8033113	0.169709	3.40E-06
G	T	0.02	-0.8033113	0.169709	3.40E-06
GACAA	G	0.01	-0.9343875	0.1872208	1.03E-06
T	C	0.01	-0.934091	0.199389	4.24E-06
T	C	0.02	-0.7551695	0.1509003	9.68E-07
C	T	0.02	-0.8260651	0.1728741	2.77E-06
A	G	0.02	-0.8033113	0.169709	3.40E-06
G	A	0.02	-0.6851546	0.1514366	8.66E-06
A	G	0.02	-0.8033113	0.169709	3.40E-06
A	G	0.02	-0.9038453	0.1724851	3.11E-07
G	T	0.02	-0.8033113	0.169709	3.40E-06
A	T	0.02	-0.8638542	0.1648256	3.10E-07
G	C	0.02	-0.8033113	0.169709	3.40E-06
C	T	0.02	-0.7211113	0.1602608	9.65E-06
C	A	0.02	-0.8260651	0.1728741	2.77E-06
T	G	0.02	-0.8033113	0.169709	3.40E-06
C	G	0.02	-0.7211113	0.1602608	9.65E-06
C	CT	0.01	-0.993507	0.2119255	4.18E-06
G	C	0.17	-0.2627103	0.05747644	7.06E-06
A	G	0.18	-0.2655775	0.05607864	3.37E-06
A	AT	0.25	-0.2126428	0.04651042	7.02E-06
AAAAT	A	0.17	-0.3286901	0.05792059	3.47E-08
C	T	0.02	-0.7562497	0.1576236	2.54E-06
GCA	G	0.11	-0.3621098	0.07416717	1.72E-06
G	C	0.19	0.2543183	0.05583971	7.58E-06
T	G	0.09	-0.3360801	0.07425315	8.59E-06
A	ATT	0.04	0.5007835	0.1071664	4.47E-06
C	T	0.01	-0.9359698	0.2081821	9.81E-06
A	T	0.01	-0.9359698	0.2081821	9.81E-06
G	GCACACACA	0.05	-0.4691171	0.1031236	7.77E-06
C	G	0.02	-0.6913982	0.147534	4.21E-06
T	C	0.01	-0.9447788	0.2009967	3.95E-06
C	A	0.01	-0.9447788	0.2009967	3.95E-06

T	C	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9447788	0.2009967	3.95E-06
TG	T	0.01	-0.9447788	0.2009967	3.95E-06
GC	G	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9447788	0.2009967	3.95E-06
A	G	0.01	-0.9447788	0.2009967	3.95E-06
C	T	0.01	-0.9447788	0.2009967	3.95E-06
T	C	0.01	-0.9447788	0.2009967	3.95E-06
C	T	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9447788	0.2009967	3.95E-06
C	T	0.01	-0.9447788	0.2009967	3.95E-06
A	C	0.01	-0.9447788	0.2009967	3.95E-06
A	T	0.01	-0.9447788	0.2009967	3.95E-06
T	C	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9447788	0.2009967	3.95E-06
G	A	0.01	-0.9964626	0.2127249	4.25E-06
C	T	0.01	-0.9964626	0.2127249	4.25E-06
C	A	0.02	-0.7700262	0.1680644	6.72E-06
ATT	A	0.03	0.6528398	0.1337597	1.73E-06
C	T	0.03	0.588719	0.1267189	5.05E-06
T	C	0.04	0.531077	0.1180183	9.63E-06
G	A	0.03	0.5544723	0.1224642	8.53E-06
C	T	0.04	0.531077	0.1180183	9.63E-06
T	C	0.04	0.531077	0.1180183	9.63E-06
T	A	0.03	0.5544723	0.1224642	8.53E-06
C	A	0.02	0.551405	0.09119592	4.84E-09
T	C	0.02	0.5482256	0.08974522	3.45E-09
C	A	0.02	0.5635695	0.09126275	2.40E-09
T	TAC	0.49	0.1394477	0.02306077	4.87E-09
A	T	0.02	0.551018	0.09028587	3.61E-09
G	A	0.02	0.5283366	0.08897204	8.77E-09
T	C	0.02	0.5283366	0.08897204	8.77E-09
AT	A	0.02	0.5237333	0.08760945	7.08E-09
A	G	0.01	-0.7758352	0.129734	6.88E-09
C	CT	0.01	-0.4943467	0.08320822	8.56E-09
CACAT	C	0.01	-0.6382285	0.09806718	4.36E-10
CACAT	C	0.01	-1.087359	0.1780612	3.49E-09
C	T	0.34	-0.2246602	0.03753058	6.71E-09
CT	C	0.01	0.6064148	0.1020102	8.68E-09
T	C	0.1	0.2617631	0.04414318	9.39E-09
G	A	0.1	0.2644958	0.04422056	7.13E-09
C	T	0.1	0.2644958	0.04422056	7.13E-09
T	C	0.03	0.5497083	0.08194988	1.26E-10
T	C	0.02	0.5697064	0.08963098	9.21E-10
T	C	0.01	-0.5703144	0.09528955	6.77E-09
G	C	0.01	-0.5703144	0.09528955	6.77E-09
T	C	0.01	-0.5363694	0.09016937	8.24E-09
CACAT	C	0.01	-0.5972738	0.09831955	4.17E-09
G	A	0.01	-0.5887556	0.09790382	6.59E-09

C	A	0.02	-0.6575577	0.1071959	3.03E-09
G	A	0.31	0.2621141	0.05769078	7.93E-06
C	T	0.31	0.2648839	0.05769843	6.43E-06
CT	C	0.01	1.110224	0.2452306	8.52E-06
T	TTTGTTG	0.05	-0.5518099	0.1224567	9.35E-06
G	T	0.13	0.3819224	0.08179536	4.53E-06
T	G	0.13	0.3826075	0.08154472	4.09E-06
G	A	0.01	1.10425	0.2388807	5.58E-06
C	T	0.31	0.253308	0.0559095	8.39E-06
A	T	0.25	0.2740131	0.06048905	8.42E-06
T	TAC	0.03	-0.8042774	0.1687942	2.94E-06
CTAT	C	0.18	0.3073027	0.06694463	6.45E-06
CGT	C	0.01	1.366248	0.251465	1.19E-07
A	G	0.05	0.5849455	0.125102	4.40E-06
C	T	0.05	0.5814217	0.1251084	5.00E-06
C	G	0.22	-0.3107725	0.06542937	3.15E-06
C	T	0.01	1.130937	0.2349651	2.35E-06
C	G	0.01	1.130937	0.2349651	2.35E-06
T	C	0.01	1.28914	0.2445599	2.65E-07
C	T	0.01	1.28914	0.2445599	2.65E-07
A	G	0.01	1.260684	0.2375485	2.22E-07
C	A	0.01	1.260684	0.2375485	2.22E-07
C	T	0.04	0.6380705	0.1417243	9.51E-06
CTCCTCGACATCCCTA	C	0.01	-1.137245	0.2393681	3.13E-06
A	G	0.03	-0.7943283	0.1709372	5.01E-06
A	G	0.02	-0.8059895	0.1733158	4.93E-06
G	A	0.02	-0.8059895	0.1733158	4.93E-06
C	T	0.02	-0.8059895	0.1733158	4.93E-06
C	T	0.02	-0.8059895	0.1733158	4.93E-06
T	A	0.06	0.5308984	0.1093836	1.95E-06
G	A	0.07	0.5157051	0.109066	3.47E-06
G	C	0.01	-1.179923	0.2608879	8.69E-06
C	G	0.11	-0.4175847	0.0868554	2.41E-06
C	T	0.47	0.2394962	0.05329624	9.87E-06
T	A	0.47	0.2394962	0.05329624	9.87E-06
T	C	0.03	0.6871058	0.1502211	6.93E-06
C	A	0.03	0.6871058	0.1502211	6.93E-06
C	T	0.03	0.6871058	0.1502211	6.93E-06
G	A	0.03	0.6694964	0.1451917	5.88E-06
G	A	0.03	0.6694964	0.1451917	5.88E-06
T	C	0.03	0.7037891	0.1475921	2.89E-06
C	T	0.28	0.2674091	0.05678881	3.79E-06
C	T	0.02	-0.9581384	0.2095317	6.97E-06
G	A	0.03	-0.7817863	0.1666846	4.12E-06
C	T	0.02	-0.9550931	0.2000869	2.82E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.8228438	0.1797381	6.81E-06
C	A	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.8228438	0.1797381	6.81E-06
T	C	0.02	-0.8176683	0.1769469	5.62E-06

A	G	0.02	-0.8052794	0.1710776	3.82E-06
G	C	0.02	-0.8228438	0.1797381	6.81E-06
T	C	0.02	-0.8052794	0.1710776	3.82E-06
G	T	0.02	-0.8228438	0.1797381	6.81E-06
C	A	0.02	-0.8052794	0.1710776	3.82E-06
A	G	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
TAATA	T	0.02	-0.8434312	0.1826246	5.69E-06
A	G	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.7831201	0.1728003	8.35E-06
C	T	0.02	-0.7831201	0.1728003	8.35E-06
C	T	0.02	-0.7831201	0.1728003	8.35E-06
T	C	0.02	-0.8228438	0.1797381	6.81E-06
TC	T	0.02	-0.8007274	0.1753448	7.16E-06
T	C	0.02	-0.8228438	0.1797381	6.81E-06
A	C	0.02	-0.8176683	0.1769469	5.62E-06
A	G	0.02	-0.8228438	0.1797381	6.81E-06
A	G	0.01	-1.041564	0.225036	5.44E-06
T	C	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.8052794	0.1710776	3.82E-06
G	A	0.02	-0.8228438	0.1797381	6.81E-06
3GCATTTTATAATGAT.	G	0.02	-0.8434312	0.1826246	5.69E-06
A	G	0.02	-0.8052794	0.1710776	3.82E-06
C	T	0.02	-0.8052794	0.1710776	3.82E-06
T	C	0.02	-0.8228438	0.1797381	6.81E-06
T	C	0.02	-0.8052794	0.1710776	3.82E-06
G	C	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
T	C	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
G	A	0.02	-0.8623963	0.1899004	8.01E-06
G	T	0.02	-0.8228438	0.1797381	6.81E-06
C	T	0.02	-0.8228438	0.1797381	6.81E-06
C	A	0.34	-0.2557651	0.05478153	4.54E-06
A	AACACACACAC	0.06	-0.5367968	0.1135584	3.49E-06
A	G	0.01	1.072484	0.2279212	3.85E-06
A	G	0.01	1.116519	0.2460383	8.13E-06
G	A	0.01	-1.095423	0.2404001	7.48E-06
G	A	0.01	-1.095423	0.2404001	7.48E-06
C	T	0.01	1.179205	0.2484441	3.20E-06
T	TACAC	0.09	-0.4705105	0.09867579	2.89E-06
C	G	0.42	0.2420534	0.0521181	5.07E-06
G	A	0.06	-0.5295384	0.1165834	7.98E-06
C	T	0.06	-0.5295384	0.1165834	7.98E-06
G	A	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.9868544	0.2120291	4.84E-06
C	G	0.02	-0.9868544	0.2120291	4.84E-06

CCTT	C	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9868544	0.2120291	4.84E-06
C	A	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9868544	0.2120291	4.84E-06
G	A	0.02	-0.9868544	0.2120291	4.84E-06
C	A	0.02	-0.9868544	0.2120291	4.84E-06
A	G	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.932104	0.1997905	4.61E-06
G	A	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.9868544	0.2120291	4.84E-06
A	G	0.02	-0.9868544	0.2120291	4.84E-06
G	C	0.02	-0.9868544	0.2120291	4.84E-06
A	G	0.02	-0.9868544	0.2120291	4.84E-06
A	G	0.02	-0.9868544	0.2120291	4.84E-06
G	A	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.9868544	0.2120291	4.84E-06
C	T	0.02	-0.9868544	0.2120291	4.84E-06
G	C	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9868544	0.2120291	4.84E-06
A	T	0.02	-0.9868544	0.2120291	4.84E-06
A	G	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9868544	0.2120291	4.84E-06
G	A	0.02	-0.9868544	0.2120291	4.84E-06
T	C	0.02	-0.9317781	0.2033503	6.69E-06
C	G	0.02	-0.9317781	0.2033503	6.69E-06
G	GGTGGCAGGCAGCT	0.02	-1.012963	0.2105996	2.39E-06
G	A	0.02	-0.9317781	0.2033503	6.69E-06
AAC	A	0.02	-0.9317781	0.2033503	6.69E-06
G	T	0.02	-0.9317781	0.2033503	6.69E-06
T	C	0.02	-0.9317781	0.2033503	6.69E-06
C	T	0.02	-0.9317781	0.2033503	6.69E-06
A	AT	0.02	-0.9509666	0.195887	1.94E-06
C	T	0.02	-0.9317781	0.2033503	6.69E-06
T	A	0.02	-0.9317781	0.2033503	6.69E-06
C	T	0.02	-0.9868996	0.2077398	3.13E-06
T	C	0.02	-0.9547027	0.203573	4.13E-06
C	T	0.02	0.905517	0.2011884	9.57E-06
TA	T	0.03	0.6671232	0.1483293	9.70E-06
TTC	T	0.04	0.6549496	0.1443737	8.18E-06
A	G	0.05	-0.5836699	0.1173794	1.12E-06
T	C	0.07	-0.4858487	0.1021827	3.08E-06
C	T	0.05	-0.568353	0.117229	2.00E-06
G	A	0.07	-0.4715274	0.1013179	4.85E-06
C	A	0.07	-0.4715274	0.1013179	4.85E-06
A	G	0.05	-0.5510998	0.1188006	5.19E-06
C	T	0.05	-0.5368326	0.1195043	9.94E-06
G	C	0.02	0.8655394	0.1855166	4.61E-06
A	G	0.11	-0.3888894	0.08387509	5.25E-06

T	TAC	0.03	-0.4876695	0.08074528	5.05E-09
C	T	0.01	0.8815309	0.1404572	1.36E-09
T	G	0.01	0.8815309	0.1404572	1.36E-09
A	G	0.02	0.6882331	0.1127339	3.50E-09
G	C	0.04	-0.4620196	0.07681825	5.72E-09
C	T	0.34	-0.1454466	0.02444915	8.30E-09
A	G	0.31	0.1712732	0.0289701	9.95E-09
G	A	0.02	-0.5618408	0.09049607	2.02E-09
T	C	0.01	0.5831928	0.09698603	5.80E-09
C	T	0.01	0.5831928	0.09698603	5.80E-09
A	G	0.01	0.5673997	0.09420128	5.50E-09
C	A	0.01	0.5673997	0.09420128	5.50E-09
A	T	0.02	0.9805685	0.2182489	9.91E-06
G	A	0.01	1.096854	0.2342568	4.28E-06
C	T	0.43	0.2685863	0.05156387	3.61E-07
TA	T	0.46	0.2301572	0.05112888	9.55E-06
A	G	0.44	0.2705737	0.05146398	2.84E-07
A	G	0.44	0.2709507	0.05136182	2.60E-07
G	C	0.44	0.2736537	0.0514736	2.13E-07
T	TA	0.45	0.2583122	0.05119202	7.92E-07
G	A	0.43	0.2680578	0.05172448	4.10E-07
C	A	0.43	0.2718137	0.05151617	2.59E-07
C	T	0.43	0.2761756	0.05150653	1.70E-07
C	T	0.43	0.2761756	0.05150653	1.70E-07
G	A	0.32	0.2504307	0.05458955	6.53E-06
A	T	0.43	0.2736621	0.05150196	2.16E-07
T	C	0.43	0.2736621	0.05150196	2.16E-07
T	C	0.43	0.2736621	0.05150196	2.16E-07
A	G	0.43	0.2736621	0.05150196	2.16E-07
T	A	0.43	0.27948	0.05161722	1.30E-07
G	T	0.44	0.2807569	0.05145179	1.05E-07
A	G	0.43	0.2845068	0.05177531	8.69E-08
C	T	0.43	0.2819553	0.05179303	1.12E-07
T	A	0.32	0.2525569	0.0557136	8.31E-06
G	T	0.43	0.2838602	0.05187419	9.76E-08
A	C	0.43	0.2777569	0.05182818	1.72E-07
C	T	0.29	0.2515023	0.05595817	9.85E-06
A	G	0.48	0.2715071	0.04960464	9.69E-08
T	C	0.32	0.2596465	0.05572036	4.73E-06
T	C	0.4	0.2701153	0.0516588	3.27E-07
A	G	0.4	0.267499	0.05161623	4.10E-07
TCACAA	T	0.42	0.264258	0.05129127	4.75E-07
A	G	0.4	0.2741584	0.05156374	2.12E-07
A	C	0.4	0.268928	0.05157112	3.51E-07
C	T	0.29	0.2512624	0.05565485	9.01E-06
A	G	0.41	0.2738379	0.05161153	2.24E-07
C	T	0.41	0.2769555	0.05149204	1.56E-07
A	G	0.41	0.2833855	0.05154218	8.55E-08
C	T	0.4	0.2729382	0.05158819	2.41E-07
C	T	0.4	0.2729382	0.05158819	2.41E-07

G	A	0.41	0.2704522	0.05164608	3.15E-07
C	T	0.41	0.2760344	0.05136794	1.60E-07
C	A	0.29	0.2537103	0.05548372	6.98E-06
T	C	0.29	0.2540319	0.05562056	7.15E-06
T	G	0.4	0.2729382	0.05158819	2.41E-07
C	T	0.41	0.2611891	0.05158816	7.30E-07
A	AG	0.41	0.2886237	0.05135679	4.59E-08
C	T	0.41	0.2769555	0.05149204	1.56E-07
A	G	0.28	0.2520766	0.05602209	9.63E-06
G	A	0.41	0.2807924	0.05126948	9.53E-08
G	A	0.41	0.2751635	0.05166603	2.02E-07
A	G	0.41	0.2633617	0.05159115	5.97E-07
G	C	0.41	0.2666958	0.0510928	3.42E-07
G	T	0.29	0.2542319	0.0558364	7.61E-06
G	T	0.41	0.2594309	0.0516767	8.94E-07
T	C	0.42	0.2540375	0.05164425	1.44E-06
G	A	0.42	0.2706505	0.05141124	2.75E-07
G	A	0.41	0.2656722	0.05160655	4.85E-07
A	T	0.41	0.2656722	0.05160655	4.85E-07
T	A	0.41	0.2696642	0.05150776	3.17E-07
G	A	0.29	0.2547806	0.05514387	5.65E-06
T	C	0.41	0.2694397	0.05183599	3.81E-07
C	T	0.41	0.2694397	0.05183599	3.81E-07
C	G	0.42	0.2660204	0.05164072	4.77E-07
G	A	0.41	0.2622067	0.05200612	8.07E-07
G	A	0.42	0.2826423	0.05191464	1.12E-07
A	G	0.32	-0.2587872	0.05425495	2.87E-06
C	T	0.42	0.2886603	0.05178584	5.81E-08
G	A	0.42	0.278106	0.05206434	1.88E-07
C	T	0.39	0.2604039	0.05364181	1.95E-06
T	C	0.39	0.2574369	0.0535738	2.44E-06
T	C	0.39	0.259083	0.05378031	2.31E-06
A	G	0.16	-0.3547925	0.07856394	8.96E-06
C	T	0.4	-0.2516381	0.05429719	5.30E-06
T	C	0.4	-0.2479209	0.05432889	7.27E-06
A	G	0.4	-0.2535655	0.0542382	4.42E-06
C	CTTGTGCCCGGGAGG	0.04	-0.622321	0.1320184	3.71E-06
C	T	0.26	0.272044	0.05921868	6.35E-06
G	A	0.26	0.2809458	0.0590445	3.03E-06
G	A	0.24	0.2943613	0.06288139	4.30E-06
TA	T	0.04	0.7113851	0.1403386	7.09E-07
C	CA	0.01	1.016436	0.2229581	7.42E-06
TGAGA	T	0.4	0.2511572	0.05382056	4.59E-06
A	T	0.13	0.360627	0.07712351	4.40E-06
A	G	0.09	-0.4191771	0.09221615	7.87E-06
G	T	0.02	0.949123	0.2069571	6.58E-06
T	C	0.02	0.8228423	0.1782566	5.76E-06
G	C	0.18	0.2984179	0.06625974	9.45E-06
T	G	0.42	0.2377703	0.05231949	7.90E-06
A	C	0.18	-0.3124475	0.06652308	4.00E-06

C	T	0.18	-0.3124475	0.06652308	4.00E-06
T	A	0.18	-0.310261	0.06656861	4.71E-06
C	A	0.18	-0.3124475	0.06652308	4.00E-06
A	G	0.18	-0.3124475	0.06652308	4.00E-06
AAG	A	0.18	-0.3124475	0.06652308	4.00E-06
A	C	0.07	0.4942196	0.109437	8.96E-06
C	T	0.07	0.4942196	0.109437	8.96E-06
T	G	0.07	0.4942196	0.109437	8.96E-06
TA	T	0.07	0.4942196	0.109437	8.96E-06
C	G	0.07	0.4942196	0.109437	8.96E-06
GCCA	G	0.07	0.4942196	0.109437	8.96E-06
G	A	0.07	0.4942196	0.109437	8.96E-06
C	T	0.07	0.4942196	0.109437	8.96E-06
C	T	0.06	0.5070433	0.1098987	5.82E-06
A	G	0.07	0.4942196	0.109437	8.96E-06
A	G	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
T	A	0.07	0.4942196	0.109437	8.96E-06
G	A	0.06	0.5099262	0.1103408	5.62E-06
C	T	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
G	GA	0.07	0.4942196	0.109437	8.96E-06
C	CCACT	0.07	0.4942196	0.109437	8.96E-06
T	C	0.06	0.4992308	0.1099179	8.00E-06
G	A	0.06	0.4992308	0.1099179	8.00E-06
C	T	0.07	0.4942196	0.109437	8.96E-06
G	A	0.07	0.4942196	0.109437	8.96E-06
TC	T	0.07	0.4942196	0.109437	8.96E-06
G	T	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
C	A	0.07	0.4942196	0.109437	8.96E-06
A	G	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
A	G	0.07	0.4942196	0.109437	8.96E-06
C	T	0.07	0.4942196	0.109437	8.96E-06
A	AT	0.07	0.4942196	0.109437	8.96E-06
T	C	0.07	0.4942196	0.109437	8.96E-06
A	C	0.07	-0.4636673	0.1018515	7.63E-06
G	A	0.07	-0.4636673	0.1018515	7.63E-06
C	T	0.02	0.8932397	0.198741	9.84E-06
AG	A	0.12	0.3924878	0.08560128	6.61E-06
TC	T	0.02	0.9569671	0.200979	2.99E-06
T	C	0.09	-0.4325395	0.09503257	7.66E-06
C	T	0.09	-0.4410319	0.09463622	4.72E-06
G	A	0.09	-0.4410319	0.09463622	4.72E-06
C	T	0.08	-0.4417257	0.09732967	8.12E-06
G	A	0.08	-0.431619	0.09516272	8.22E-06
C	A	0.08	-0.4509034	0.0962936	4.27E-06
A	C	0.09	-0.428018	0.0944526	8.37E-06

C	A	0.09	-0.4410462	0.09434141	4.42E-06
C	G	0.09	-0.444694	0.09436029	3.73E-06
T	C	0.08	-0.4548817	0.09514123	2.73E-06
G	A	0.08	-0.438299	0.09719718	9.22E-06
G	A	0.37	-0.2524626	0.05397812	4.38E-06
C	T	0.37	-0.2529518	0.05404213	4.31E-06
T	A	0.01	1.138647	0.2520162	8.88E-06
CTTT	C	0.15	0.3430935	0.07328878	4.29E-06
G	T	0.1	0.4252258	0.08838046	2.38E-06
C	T	0.11	0.3993228	0.08111119	1.41E-06
A	G	0.08	-0.448478	0.09882827	8.14E-06
AGAGG	A	0.04	0.599216	0.1290115	5.06E-06
T	A	0.02	0.9820793	0.2140606	6.52E-06
ATATT	A	0.21	-0.2941482	0.06495302	8.48E-06
T	C	0.46	-0.2349503	0.05046126	4.81E-06
C	A	0.46	-0.2419832	0.0505432	2.65E-06
CCACA	C	0.04	0.6180854	0.1356293	7.47E-06
T	A	0.23	0.3054892	0.06232609	1.56E-06
C	T	0.23	0.3083293	0.06236784	1.28E-06
T	C	0.23	0.3309441	0.06158437	1.60E-07
T	C	0.23	0.3293323	0.06156788	1.81E-07
A	G	0.15	0.3636516	0.07932505	6.63E-06
GTATA	G	0.01	1.024166	0.2235676	6.73E-06
G	A	0.38	0.2476373	0.05304566	4.55E-06
T	C	0.12	-0.3719407	0.08156964	7.39E-06
T	C	0.12	-0.3719407	0.08156964	7.39E-06
C	T	0.12	-0.3748605	0.08170042	6.51E-06
A	C	0.12	-0.3719407	0.08156964	7.39E-06
G	C	0.12	-0.3755971	0.08166076	6.20E-06
A	G	0.32	0.2499409	0.05529578	8.80E-06
G	A	0.33	0.2612735	0.05489516	3.01E-06
T	C	0.37	0.2602561	0.05243238	1.17E-06
A	T	0.35	0.2446572	0.05401306	8.44E-06
C	T	0.33	0.2640401	0.0547928	2.29E-06
C	G	0.33	0.2570701	0.05480281	4.12E-06
A	C	0.36	0.2455574	0.05278785	4.91E-06
T	C	0.35	0.2471879	0.05422615	7.43E-06
A	G	0.33	0.248241	0.05461274	7.87E-06
G	A	0.39	0.228076	0.04951956	6.03E-06
G	A	0.33	0.2502554	0.0539445	5.19E-06
A	G	0.35	0.251932	0.05358584	3.92E-06
C	A	0.35	0.2521502	0.05378011	4.16E-06
T	C	0.11	0.3780214	0.0834274	8.38E-06
AG	A	0.11	0.3799046	0.08359499	7.90E-06
A	G	0.11	0.3842055	0.08371219	6.47E-06
A	G	0.11	0.3834126	0.08353577	6.47E-06
TG	T	0.11	0.3853337	0.08370493	6.09E-06
A	T	0.11	0.3834126	0.08353577	6.47E-06
C	T	0.11	0.3834126	0.08353577	6.47E-06
G	A	0.11	0.3834126	0.08353577	6.47E-06

C	G	0.11	0.3993228	0.08439524	3.42E-06
G	A	0.1	0.4024702	0.08641564	4.78E-06
C	T	0.11	0.3971945	0.08474773	4.19E-06
C	T	0.11	0.4066338	0.08438697	2.30E-06
C	T	0.13	-0.3605867	0.07745276	4.82E-06
G	ACAAAACAAAACAAA	0.03	-0.4936573	0.08179752	5.12E-09
G	T	0.44	0.1267694	0.02054205	2.44E-09
A	G	0.43	0.1244795	0.02070634	5.82E-09
C	T	0.43	0.1226774	0.02071842	9.46E-09
G	T	0.43	0.1236268	0.02074869	7.75E-09
A	G	0.49	0.1213484	0.01977213	2.94E-09
A	G	0.41	0.1232772	0.02064022	7.18E-09
A	AG	0.41	0.1230503	0.02058212	6.95E-09
G	A	0.42	0.1232161	0.02075341	8.68E-09
A	G	0.02	0.9766359	0.1638748	7.70E-09
G	GAAGA	0.08	-0.4964248	0.07945665	2.16E-09
A	G	0.01	0.759243	0.1249849	4.30E-09
GA	G	0.01	0.7637192	0.1245522	3.15E-09
T	C	0.01	0.866503	0.1352398	6.88E-10
G	A	0.01	0.866503	0.1352398	6.88E-10
T	G	0.01	0.7934977	0.1317706	5.71E-09
C	G	0.02	0.6879597	0.1125151	3.46E-09
G	A	0.18	0.2350687	0.03873073	4.42E-09
A	G	0.17	0.2372943	0.03916721	4.69E-09
T	A	0.01	0.8323828	0.1345874	2.26E-09
C	T	0.01	-0.9449719	0.1555212	4.92E-09
ACAAAT	A	0.04	0.4209269	0.06872207	3.23E-09
A	T	0.04	0.4120419	0.06781356	4.21E-09
G	A	0.15	0.1717277	0.02876183	7.42E-09
T	C	0.01	0.7042765	0.1183175	8.28E-09
C	T	0.01	0.766055	0.1189787	5.69E-10
G	A	0.02	0.6296999	0.105626	7.81E-09
T	C	0.02	0.6296999	0.105626	7.81E-09
C	G	0.02	0.6296999	0.105626	7.81E-09
G	T	0.02	0.6296999	0.105626	7.81E-09
C	T	0.02	0.6296999	0.105626	7.81E-09
G	A	0.02	0.6296999	0.105626	7.81E-09
A	C	0.01	0.766055	0.1189787	5.69E-10
C	G	0.22	-0.2144427	0.03588388	7.22E-09
G	A	0.01	0.5389688	0.09003689	6.87E-09
G	A	0.01	0.5389688	0.09003689	6.87E-09
G	A	0.02	0.6422625	0.1046038	3.19E-09
T	C	0.02	0.6422625	0.1046038	3.19E-09
G	A	0.02	-0.7428323	0.1226593	4.91E-09
G	A	0.15	0.2358992	0.03900489	4.91E-09
C	A	0.15	0.2374109	0.03939473	5.51E-09
G	A	0.15	0.2374109	0.03939473	5.51E-09
C	A	0.15	0.2374109	0.03939473	5.51E-09
G	A	0.15	0.2374109	0.03939473	5.51E-09
A	C	0.15	0.2298999	0.03864156	8.33E-09

A	C	0.15	0.232233	0.03893158	7.66E-09
C	T	0.01	0.97228	0.1569244	2.19E-09
C	CTGTG	0.14	-0.170974	0.03434375	1.09E-06
A	C	0.19	-0.1307116	0.02797011	4.45E-06
GCCTGCCTTGGCTTCC	G	0.01	-0.4410619	0.08963373	1.43E-06
AACACACACACAC	A	0.02	-0.4025252	0.08335228	2.19E-06
A	G	0.01	-0.4351652	0.09490285	6.59E-06
G	A	0.04	-0.2713726	0.05909947	6.41E-06
G	A	0.07	-0.2191811	0.04556381	2.38E-06
G	A	0.07	-0.2191811	0.04556381	2.38E-06
A	G	0.07	-0.2191811	0.04556381	2.38E-06
G	A	0.07	-0.2191811	0.04556381	2.38E-06
A	AT	0.07	-0.204004	0.04449983	6.62E-06
G	A	0.06	-0.2145766	0.04569317	4.01E-06
T	C	0.02	-0.3539748	0.07843409	9.07E-06
TTC	T	0.1	0.1798043	0.03859035	4.74E-06
G	A	0.24	0.1206822	0.02614544	5.76E-06
G	A	0.23	0.1201303	0.02646498	8.08E-06
C	T	0.16	0.136938	0.02990064	6.76E-06
T	TA	0.05	-0.2187483	0.04597645	3.03E-06
C	CTG	0.01	-0.4408498	0.09444333	4.56E-06
T	C	0.11	-0.1609451	0.03545506	8.08E-06
T	G	0.11	-0.1609451	0.03545506	8.08E-06
G	A	0.11	-0.1609451	0.03545506	8.08E-06
G	A	0.11	-0.1609451	0.03545506	8.08E-06
A	C	0.11	-0.1609451	0.03545506	8.08E-06
G	C	0.11	-0.1609451	0.03545506	8.08E-06
G	A	0.11	-0.1609451	0.03545506	8.08E-06
G	C	0.11	-0.1609451	0.03545506	8.08E-06
T	C	0.11	-0.1630797	0.03551033	6.39E-06
G	A	0.11	-0.1609451	0.03545506	8.08E-06
T	C	0.11	-0.1609451	0.03545506	8.08E-06
T	C	0.11	-0.1609451	0.03545506	8.08E-06
C	T	0.11	-0.1609451	0.03545506	8.08E-06
T	C	0.11	-0.1609371	0.03523202	7.12E-06
A	T	0.11	-0.1609371	0.03523202	7.12E-06
A	C	0.04	-0.2689968	0.05911851	7.70E-06
C	T	0.06	-0.2130434	0.04730653	9.46E-06
T	TAA	0.02	-0.3786715	0.08252862	6.50E-06
C	A	0.02	-0.3470012	0.07635001	7.88E-06
A	G	0.02	-0.3799287	0.08246347	5.98E-06
A	G	0.03	-0.32838	0.07094703	5.44E-06
A	G	0.1	-0.1769413	0.03584636	1.33E-06
A	G	0.1	-0.16325	0.03570697	7.00E-06
T	G	0.16	-0.1440277	0.03062876	3.90E-06
A	AT	0.12	-0.1522577	0.03359182	8.32E-06
T	C	0.22	-0.1238826	0.0268247	5.69E-06
G	A	0.17	-0.140969	0.03057937	5.91E-06
C	T	0.18	-0.1419622	0.02985844	3.08E-06
T	C	0.22	-0.1261835	0.02682892	3.89E-06

A	C	0.22	-0.1290891	0.02691725	2.55E-06
T	C	0.16	-0.1400774	0.03099523	8.82E-06
A	G	0.16	-0.1400774	0.03099523	8.82E-06
G	T	0.19	-0.1307774	0.02864692	7.21E-06
G	C	0.19	-0.1381845	0.02839791	1.84E-06
AAC	A	0.01	-0.5238774	0.1066922	1.50E-06
T	G	0.22	-0.1245621	0.02744499	8.10E-06
C	T	0.22	-0.1277606	0.02749982	5.03E-06
C	A	0.22	-0.1245621	0.02744499	8.10E-06
T	A	0.22	-0.1246431	0.02747795	8.19E-06
TG	T	0.23	-0.1260023	0.02584279	1.76E-06
T	C	0.22	-0.117695	0.02600739	8.59E-06
G	T	0.18	-0.1355482	0.02808537	2.21E-06
A	T	0.02	-0.3680384	0.08097957	7.89E-06
T	TA	0.02	-0.3355882	0.07370294	7.60E-06
G	C	0.4	0.1031482	0.02236927	5.88E-06
CT	C	0.4	0.1040448	0.02238524	4.99E-06
A	G	0.4	0.1040448	0.02238524	4.99E-06
A	C	0.4	0.1052035	0.02235525	3.84E-06
T	C	0.4	0.1052035	0.02235525	3.84E-06
G	T	0.4	0.1052035	0.02235525	3.84E-06
T	A	0.4	0.1052035	0.02235525	3.84E-06
T	G	0.4	0.1043071	0.02233718	4.52E-06
C	T	0.4	0.1052035	0.02235525	3.84E-06
A	T	0.4	0.1052035	0.02235525	3.84E-06
T	C	0.4	0.1069831	0.02238058	2.74E-06
T	C	0.4	0.1036433	0.02233767	5.17E-06
T	C	0.4	0.1072321	0.02248225	2.87E-06
C	T	0.4	0.1069831	0.02238058	2.74E-06
A	G	0.4	0.1067085	0.02243051	3.04E-06
C	T	0.4	0.1058299	0.02241456	3.58E-06
C	T	0.4	0.1058299	0.02241456	3.58E-06
T	A	0.4	0.1056606	0.02245443	3.85E-06
T	G	0.4	0.105898	0.02241242	3.52E-06
A	G	0.4	0.1067085	0.02243051	3.04E-06
C	T	0.4	0.1058299	0.02241456	3.58E-06
C	T	0.4	0.1038011	0.02243269	5.47E-06
G	A	0.39	0.1083968	0.02240178	2.09E-06
T	C	0.39	0.1061619	0.02244568	3.45E-06
T	C	0.4	0.1060567	0.02236155	3.25E-06
C	G	0.4	0.1018198	0.02247851	8.43E-06
A	G	0.4	0.1058299	0.02241456	3.58E-06
C	G	0.4	0.1049984	0.02240099	4.18E-06
G	A	0.4	0.1058299	0.02241456	3.58E-06
A	C	0.4	0.1067085	0.02243051	3.04E-06
C	T	0.4	0.1049251	0.02239613	4.22E-06
C	G	0.4	0.1058299	0.02241456	3.58E-06
C	G	0.4	0.1058299	0.02241456	3.58E-06
A	C	0.4	0.1070284	0.02237104	2.69E-06
T	C	0.4	0.1058299	0.02241456	3.58E-06

A	G	0.4	0.1041331	0.02237686	4.86E-06
A	T	0.4	0.1058299	0.02241456	3.58E-06
G	A	0.4	0.1067085	0.02243051	3.04E-06
A	G	0.27	0.1107716	0.0245286	8.95E-06
A	C	0.4	0.1039746	0.02241436	5.20E-06
T	C	0.4	0.1056901	0.02248202	3.92E-06
A	C	0.4	0.1057762	0.02241099	3.60E-06
G	A	0.01	-0.5014652	0.1109507	8.81E-06
G	A	0.22	-0.1256049	0.02664052	3.69E-06
A	T	0.01	-0.5082612	0.1113479	7.23E-06
C	CA	0.03	-0.3304221	0.06288764	2.89E-07
C	G	0.03	-0.3320405	0.06420891	4.33E-07
A	C	0.02	-0.4144317	0.07529507	8.28E-08
G	T	0.02	-0.4144317	0.07529507	8.28E-08
G	C	0.04	-0.243244	0.05364597	8.26E-06
T	C	0.02	-0.4026524	0.08167736	1.37E-06
G	A	0.01	-0.4812631	0.1050029	6.65E-06
C	A	0.01	-0.4812631	0.1050029	6.65E-06
T	TTG	0.03	-0.330035	0.07088817	4.81E-06
C	T	0.03	-0.2922451	0.06342172	5.96E-06
GCA	G	0.02	-0.3365654	0.074546	9.00E-06
T	G	0.04	-0.2500955	0.05458117	6.69E-06
C	G	0.13	-0.1670718	0.03527694	3.35E-06
C	G	0.14	-0.1604035	0.03512913	7.18E-06
C	T	0.01	-0.4370091	0.09482097	5.94E-06
ATATGTATG	A	0.02	-0.3864823	0.08351906	5.46E-06
A	T	0.26	-0.1201364	0.02552663	3.83E-06
A	C	0.26	-0.118414	0.02524005	4.10E-06
A	G	0.26	-0.1128324	0.02504332	9.37E-06
G	C	0.26	-0.1142532	0.02519136	8.22E-06
G	C	0.26	-0.1124242	0.0249739	9.53E-06
T	A	0.21	-0.1235029	0.02701828	7.02E-06
C	T	0.02	-0.3520933	0.07746708	7.88E-06
A	G	0.02	-0.3520933	0.07746708	7.88E-06
C	G	0.02	-0.3520933	0.07746708	7.88E-06
A	G	0.02	-0.3520933	0.07746708	7.88E-06
C	G	0.02	-0.369363	0.07846667	3.82E-06
G	A	0.02	-0.3520933	0.07746708	7.88E-06
T	C	0.02	-0.3520933	0.07746708	7.88E-06
T	TA	0.02	-0.3520933	0.07746708	7.88E-06
G	T	0.02	-0.3520933	0.07746708	7.88E-06
T	C	0.02	-0.3520933	0.07746708	7.88E-06
A	ATTT	0.33	-0.1085203	0.02377072	7.20E-06
A	G	0.01	-0.4996419	0.1048058	2.90E-06
AG	A	0.01	-0.406263	0.08107511	9.34E-07
T	C	0.26	0.1142103	0.02523087	8.54E-06
G	A	0.01	-0.5067122	0.1105724	6.67E-06
G	A	0.2	-0.1306089	0.02738968	2.89E-06
G	T	0.1	-0.1800268	0.03869537	4.89E-06
TC	T	0.02	-0.3242272	0.07042242	6.07E-06

T	TGTGTGC	0.01	-0.4821776	0.09709532	1.15E-06
C	A	0.01	-0.4511997	0.09502338	3.17E-06
G	GGTGTGTGT	0.01	-0.4605227	0.09895142	4.85E-06
C	G	0.03	-0.7171071	0.1554481	5.83E-06
GTTGTTTTTTGTTTT	G	0.07	0.4510087	0.1003764	9.90E-06
A	G	0.45	-0.2544435	0.05584824	7.51E-06
C	T	0.02	-1.047797	0.2173814	2.28E-06
G	GA	0.04	-0.6069592	0.129479	4.17E-06
G	A	0.04	-0.6049557	0.130672	5.42E-06
TTTCC	T	0.37	-0.2478337	0.05472844	8.48E-06
C	CGTGTGTGT	0.02	-0.8226504	0.1788095	6.16E-06
C	T	0.1	0.431809	0.09182079	3.90E-06
T	G	0.1	0.4197476	0.0923705	7.92E-06
T	C	0.03	-0.7169233	0.155472	5.88E-06
G	A	0.06	-0.5610528	0.1189896	3.69E-06
A	G	0.44	0.2425185	0.05384575	9.45E-06
G	ACACACACACACACA	0.03	-0.6485676	0.1436571	9.01E-06
G	C	0.02	-0.9539506	0.2074369	6.22E-06
T	C	0.37	0.2462069	0.05390918	7.15E-06
T	C	0.01	-1.393455	0.2290795	3.95E-09
A	G	0.01	-1.532	0.2684518	2.93E-08
G	A	0.02	-0.9377673	0.2009851	4.60E-06
G	GT	0.07	-0.4442435	0.09866345	9.50E-06
G	A	0.05	-0.5732078	0.1251381	6.74E-06
C	T	0.05	-0.5803249	0.1207557	2.44E-06
C	T	0.05	-0.5670593	0.1224216	5.36E-06
C	T	0.05	-0.5803249	0.1207557	2.44E-06
G	A	0.05	-0.5803249	0.1207557	2.44E-06
C	T	0.05	-0.5803249	0.1207557	2.44E-06
G	A	0.02	-0.8639084	0.1858419	4.98E-06
G	A	0.01	-1.226257	0.2714701	8.92E-06
A	AGTGTGT	0.01	-1.144613	0.2427333	3.68E-06
T	C	0.02	-0.9985225	0.220535	8.51E-06
A	G	0.23	0.278774	0.06196305	9.65E-06
C	G	0.23	0.279784	0.06158438	7.95E-06
A	C	0.03	-0.7685642	0.1699662	8.73E-06
C	T	0.2	-0.3001485	0.06670586	9.63E-06
C	G	0.04	-0.6561673	0.1384038	3.28E-06
GGAAT	G	0.41	-0.2500615	0.05530964	8.76E-06
C	T	0.29	0.2402062	0.05331975	9.40E-06
GA	G	0.14	0.3621884	0.07854987	5.89E-06
G	A	0.01	-1.16459	0.2409256	2.14E-06
G	T	0.01	-1.16459	0.2409256	2.14E-06
G	A	0.01	-1.233956	0.266179	5.27E-06
G	A	0.02	-0.9748886	0.2017792	2.17E-06
G	A	0.02	-0.9748886	0.2017792	2.17E-06
C	T	0.02	-0.8824389	0.1865568	3.44E-06
G	GT	0.16	-0.3097425	0.06736971	6.25E-06
A	G	0.11	-0.4033948	0.08654898	4.71E-06
G	A	0.11	-0.4053543	0.08672677	4.44E-06

C	T	0.11	-0.4175132	0.0868567	2.42E-06
C	T	0.02	-0.9468272	0.207337	7.17E-06
G	C	0.13	0.3753411	0.08049112	4.66E-06
C	T	0.13	0.3753411	0.08049112	4.66E-06
T	G	0.03	-0.6876088	0.1477342	4.85E-06
T	TA	0.03	-0.7700907	0.1514772	6.60E-07
T	A	0.03	-0.7786435	0.1484098	3.00E-07
G	A	0.03	-0.7734152	0.1510204	5.52E-07
T	C	0.02	-1.017684	0.2169168	4.10E-06
CCT	C	0.06	0.5450467	0.1202803	8.37E-06
CCT	C	0.23	-0.3124981	0.06231988	9.20E-07
C	T	0.2	-0.3129848	0.06635323	3.66E-06
C	A	0.2	-0.325099	0.06590493	1.35E-06
G	C	0.2	-0.3073764	0.06720836	6.95E-06
C	T	0.2	0.3062502	0.06757392	8.35E-06
C	G	0.19	0.3133758	0.06936033	8.88E-06
C	T	0.19	0.3194558	0.0694264	6.14E-06
A	C	0.19	0.3369598	0.06937569	1.92E-06
C	G	0.19	0.3144271	0.06928136	8.12E-06
G	T	0.26	0.2769464	0.06083067	7.62E-06
AAAATAAAT	A	0.03	-0.7556462	0.166417	8.04E-06
A	G	0.02	-0.8729495	0.1934266	9.08E-06
G	A	0.02	-0.9558882	0.2061073	5.22E-06
G	A	0.4	0.2712684	0.05603182	2.07E-06
C	G	0.4	0.2712684	0.05603182	2.07E-06
A	G	0.42	0.2247342	0.04958408	8.34E-06
C	T	0.19	-0.3200974	0.07042629	7.88E-06
C	A	0.29	-0.3012852	0.06042406	1.05E-06
C	T	0.28	-0.2990217	0.06071883	1.40E-06
C	G	0.29	-0.3079327	0.05951571	4.28E-07
C	T	0.28	-0.2782111	0.06052023	6.27E-06
C	T	0.28	-0.2806429	0.05820466	2.27E-06
C	A	0.29	-0.3079327	0.05951571	4.28E-07
G	A	0.29	-0.3058826	0.05972899	5.52E-07
G	A	0.29	-0.3079327	0.05951571	4.28E-07
G	A	0.33	-0.3053517	0.05769762	2.40E-07
T	C	0.3	-0.3046718	0.05977654	6.20E-07
A	G	0.33	-0.3056362	0.05774031	2.38E-07
A	C	0.3	-0.3046718	0.05977654	6.20E-07
A	T	0.33	-0.2919189	0.05792933	8.17E-07
A	G	0.3	-0.3046718	0.05977654	6.20E-07
A	T	0.3	-0.3046718	0.05977654	6.20E-07
A	G	0.34	-0.3047479	0.05808356	3.00E-07
C	T	0.3	-0.2999105	0.05976068	9.02E-07
T	C	0.34	-0.2989349	0.05794553	4.60E-07
G	C	0.3	-0.2999105	0.05976068	9.02E-07
C	T	0.3	-0.3007293	0.05965771	8.11E-07
A	T	0.3	-0.2971288	0.05956936	1.04E-06
C	A	0.3	-0.2971288	0.05956936	1.04E-06
A	G	0.34	-0.2824982	0.05811661	1.89E-06

AAATAAATAAATAAA	A	0.28	-0.281087	0.06130988	6.62E-06
A	C	0.3	-0.2971288	0.05956936	1.04E-06
G	GA	0.01	-1.128493	0.2506696	9.53E-06
C	T	0.24	0.2900712	0.06176967	4.02E-06
G	GA	0.01	1.010844	0.2175576	5.03E-06
G	GGTGTGT	0.04	-0.6171487	0.1329923	5.16E-06
G	A	0.03	-0.7668581	0.147596	3.85E-07
A	AAAGG	0.39	-0.2312673	0.05124048	9.06E-06
A	C	0.02	-0.8793636	0.1887044	4.73E-06
G	A	0.04	-0.6555064	0.1355679	2.13E-06
G	A	0.01	-0.8704926	0.1467707	9.19E-09
A	G	0.01	-0.6178325	0.09945772	1.98E-09
G	C	0.01	-0.6753161	0.1025674	2.46E-10
C	T	0.01	0.8364646	0.1221325	5.19E-11
T	G	0.01	0.8364646	0.1221325	5.19E-11
T	TC	0.01	0.7652248	0.1077101	1.14E-11
A	G	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
A	T	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
C	T	0.01	0.7652248	0.1077101	1.14E-11
C	T	0.01	0.7652248	0.1077101	1.14E-11
T	C	0.01	0.7652248	0.1077101	1.14E-11
C	G	0.01	0.7652248	0.1077101	1.14E-11
G	C	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
T	C	0.01	0.7652248	0.1077101	1.14E-11
AC	A	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
A	G	0.01	0.7652248	0.1077101	1.14E-11
C	T	0.01	0.7652248	0.1077101	1.14E-11
C	T	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7652248	0.1077101	1.14E-11
G	A	0.01	0.7389646	0.1125273	2.66E-10
GTAGAATGAGTTAAC	T	0.01	0.7237908	0.1222796	9.57E-09
G	A	0.01	0.7652248	0.1077101	1.14E-11
G	T	0.01	0.7652248	0.1077101	1.14E-11
A	T	0.01	0.770876	0.1224933	1.25E-09
G	A	0.01	0.7652248	0.1077101	1.14E-11
A	G	0.01	0.7652248	0.1077101	1.14E-11
T	C	0.01	0.7260041	0.1053239	4.00E-11
A	G	0.01	0.7260041	0.1053239	4.00E-11
T	C	0.01	0.7260041	0.1053239	4.00E-11
C	G	0.01	0.7260041	0.1053239	4.00E-11
C	T	0.01	0.7260041	0.1053239	4.00E-11
C	T	0.01	0.7464398	0.114622	3.63E-10
AG	A	0.01	0.7260041	0.1053239	4.00E-11
T	A	0.01	0.7260041	0.1053239	4.00E-11
A	G	0.01	0.7260041	0.1053239	4.00E-11

T	TG	0.01	0.711239	0.115316	2.49E-09
A	G	0.02	0.7645194	0.09909484	2.67E-13
A	AT	0.01	0.7260041	0.1053239	4.00E-11
C	T	0.01	0.5080236	0.08415208	5.09E-09
A	C	0.01	0.5080236	0.08415208	5.09E-09
C	T	0.05	-0.5115829	0.0855221	6.82E-09
G	A	0.39	0.2073104	0.03478524	8.92E-09
C	G	0.39	0.2073104	0.03478524	8.92E-09
GGAAT	G	0.41	-0.1810144	0.03037657	8.48E-09
G	A	0.01	-0.4686089	0.07572408	2.24E-09
A	G	0.01	-0.4686089	0.07572408	2.24E-09
A	G	0.01	-0.4686089	0.07572408	2.24E-09
C	T	0.01	-0.4686089	0.07572408	2.24E-09
G	A	0.01	-0.4686089	0.07572408	2.24E-09
T	C	0.01	-0.4686089	0.07572408	2.24E-09
T	C	0.01	-0.5921776	0.1000656	9.66E-09
T	TC	0.42	0.1053987	0.01743208	5.27E-09
A	G	0.02	-0.6175648	0.1010436	3.41E-09
C	T	0.03	-0.5424459	0.0911416	8.07E-09
T	C	0.03	-0.5424459	0.0911416	8.07E-09
C	T	0.03	-0.5424459	0.0911416	8.07E-09
G	GA	0.01	-0.8186901	0.1341578	3.57E-09
G	C	0.09	0.2790501	0.04721321	9.99E-09
C	T	0.09	0.2797486	0.04693415	7.64E-09
G	GA	0.09	0.2809459	0.04703281	7.13E-09
C	T	0.02	-0.9154434	0.1535779	7.85E-09
G	T	0.17	-0.3412895	0.05607926	3.90E-09
ATC	A	0.01	-1.069881	0.1747385	3.17E-09
GAGAT	G	0.25	0.1639038	0.02597055	1.12E-09
ATC	A	0.01	-0.8461603	0.1331457	9.52E-10
C	T	0.02	-0.8564843	0.1843594	5.04E-06
TTC	T	0.01	-1.153969	0.242732	3.08E-06
A	G	0.01	-1.082851	0.238856	8.29E-06
T	TAC	0.38	0.3253146	0.05954431	1.02E-07
C	T	0.43	0.2462324	0.05322436	5.49E-06
A	G	0.44	0.245809	0.05307048	5.36E-06
A	G	0.44	0.2406622	0.0530288	8.11E-06
G	C	0.44	0.2461451	0.05313265	5.34E-06
G	A	0.43	0.2520065	0.05339717	3.61E-06
C	A	0.43	0.2471629	0.05324887	5.13E-06
C	T	0.43	0.2516487	0.05318721	3.42E-06
C	T	0.43	0.2516487	0.05318721	3.42E-06
A	T	0.43	0.2494566	0.05323611	4.20E-06
T	C	0.43	0.2494566	0.05323611	4.20E-06
T	C	0.43	0.2494566	0.05323611	4.20E-06
A	G	0.43	0.2494566	0.05323611	4.20E-06
A	G	0.43	0.2521586	0.05351112	3.73E-06
C	T	0.43	0.2477336	0.05352379	5.44E-06
A	C	0.43	0.2426442	0.0535802	8.47E-06
C	T	0.41	0.2406654	0.05328758	8.94E-06

A	G	0.41	0.2485643	0.05333814	4.72E-06
C	T	0.41	0.2406654	0.05328758	8.94E-06
C	T	0.12	0.3750939	0.08101465	5.40E-06
G	A	0.02	-0.8856789	0.1961232	8.95E-06
C	T	0.02	-1.035395	0.2200721	3.86E-06
CT	C	0.02	-0.9196767	0.1949194	3.63E-06
A	T	0.01	-1.148031	0.249027	5.91E-06
G	A	0.03	-0.8429834	0.1685947	9.83E-07
GA	G	0.11	-0.4036495	0.0822207	1.51E-06
T	C	0.03	-0.7262543	0.1570785	5.56E-06
C	T	0.04	-0.6370779	0.1364312	4.52E-06
G	A	0.04	-0.6370779	0.1364312	4.52E-06
G	A	0.25	-0.2773234	0.06126932	8.56E-06
G	A	0.28	-0.2730001	0.0574108	3.07E-06
C	T	0.47	0.2464552	0.05457464	8.95E-06
T	TA	0.03	-0.6759819	0.1471106	6.31E-06
T	C	0.01	-1.147791	0.2328322	1.37E-06
A	G	0.01	-1.245364	0.2730775	7.36E-06
C	T	0.02	-0.9556309	0.2100866	7.75E-06
TTTTC	T	0.27	0.2703468	0.05927148	7.34E-06
C	A	0.13	-0.3672361	0.07850283	4.36E-06
T	C	0.13	-0.3591913	0.07935439	8.55E-06
G	T	0.02	-0.9360264	0.1974544	3.28E-06
T	TA	0.02	-0.9688742	0.2025719	2.70E-06
C	T	0.12	-0.4065894	0.08826032	5.99E-06
A	G	0.04	-0.6819564	0.1442177	3.46E-06
G	A	0.1	-0.4301584	0.0900874	2.80E-06
A	AGTGTGT	0.01	-1.197219	0.2440869	1.54E-06
C	T	0.41	-0.2417899	0.05367461	9.40E-06
C	T	0.02	-1.156287	0.2133364	1.27E-07
T	C	0.01	-1.118191	0.2355021	3.17E-06
C	T	0.02	-1.091905	0.226787	2.34E-06
A	G	0.02	-1.091905	0.226787	2.34E-06
C	T	0.01	-1.118191	0.2355021	3.17E-06
C	T	0.02	-0.8855179	0.1960042	8.88E-06
C	A	0.02	-0.9962261	0.2064973	2.23E-06
T	C	0.12	-0.4063968	0.08164159	1.09E-06
C	A	0.01	-1.331173	0.2811091	3.36E-06
C	T	0.01	-1.331173	0.2811091	3.36E-06
G	A	0.01	-1.331173	0.2811091	3.36E-06
C	G	0.04	-0.6968768	0.1402451	1.14E-06
A	G	0.01	-1.212494	0.2367122	5.48E-07
A	G	0.02	-0.788517	0.172207	6.78E-06
T	C	0.02	-0.788517	0.172207	6.78E-06
C	A	0.02	-0.788517	0.172207	6.78E-06
G	A	0.02	-0.788517	0.172207	6.78E-06
A	G	0.02	-0.788517	0.172207	6.78E-06
C	T	0.02	-0.788517	0.172207	6.78E-06
T	C	0.02	-0.788517	0.172207	6.78E-06
A	C	0.3	-0.2533135	0.05585126	8.22E-06

G	T	0.21	0.3019056	0.06572329	6.35E-06
T	TA	0.1	0.4076492	0.08818016	5.58E-06
C	T	0.02	-0.8947784	0.1883058	3.12E-06
C	T	0.11	-0.3944386	0.0875068	9.29E-06
G	A	0.11	0.4043456	0.08816712	6.57E-06
G	A	0.1	0.4167594	0.09180405	8.07E-06
G	A	0.11	0.4030723	0.08878252	8.06E-06
A	C	0.1	0.4149576	0.09005141	5.96E-06
A	T	0.1	0.4149576	0.09005141	5.96E-06
G	A	0.1	0.4070295	0.09030164	9.29E-06
G	GT	0.01	-1.349211	0.2724237	1.23E-06
G	A	0.01	-1.349211	0.2724237	1.23E-06
T	C	0.01	-1.349211	0.2724237	1.23E-06
T	G	0.01	-1.241008	0.2353013	2.62E-07
A	G	0.01	-1.265527	0.2421945	3.32E-07
T	C	0.01	-1.283724	0.2777037	5.58E-06
A	G	0.01	-1.11085	0.2414604	6.16E-06
T	C	0.15	0.348389	0.0747012	4.64E-06
C	T	0.2	0.3226455	0.06807215	3.29E-06
A	C	0.2	0.3071735	0.06736385	7.38E-06
C	T	0.2	0.3051579	0.06758319	8.98E-06
C	G	0.19	0.3275012	0.06990064	4.22E-06
C	T	0.19	0.3276856	0.07005245	4.36E-06
A	C	0.19	0.3513198	0.06996361	8.88E-07
C	G	0.19	0.3258919	0.06984137	4.59E-06
C	G	0.26	0.2918509	0.06070525	2.41E-06
G	T	0.26	0.3037012	0.06123281	1.19E-06
G	T	0.26	0.2921421	0.06134797	2.97E-06
T	A	0.26	0.2921294	0.06114298	2.77E-06
CT	C	0.26	0.294731	0.06136078	2.46E-06
G	A	0.25	0.2892727	0.06139929	3.75E-06
T	C	0.26	0.2843608	0.05999802	3.30E-06
T	C	0.26	0.2825736	0.0605214	4.54E-06
C	G	0.26	0.2848541	0.06050828	3.81E-06
C	T	0.26	0.2802726	0.06118709	6.73E-06
C	T	0.01	-1.239767	0.2632344	3.77E-06
C	A	0.29	-0.2879522	0.06094879	3.53E-06
C	T	0.28	-0.2893808	0.06123644	3.51E-06
C	G	0.29	-0.2999499	0.0600177	9.94E-07
C	T	0.28	-0.286865	0.06086638	3.72E-06
C	T	0.28	-0.2661503	0.05865307	8.14E-06
C	A	0.29	-0.2999499	0.0600177	9.94E-07
G	A	0.29	-0.298094	0.06022823	1.25E-06
G	A	0.29	-0.2999499	0.0600177	9.94E-07
G	A	0.33	-0.281643	0.05826915	2.14E-06
T	C	0.3	-0.2931503	0.0602821	1.87E-06
A	G	0.33	-0.2800057	0.0583262	2.49E-06
A	C	0.3	-0.2931503	0.0602821	1.87E-06
A	T	0.33	-0.2705772	0.05847282	5.47E-06
A	G	0.3	-0.2931503	0.0602821	1.87E-06

A	T	0.3	-0.2931503	0.0602821	1.87E-06
A	G	0.34	-0.2863736	0.05861373	1.68E-06
C	T	0.3	-0.2880176	0.06027204	2.76E-06
T	C	0.34	-0.2800011	0.0584748	2.64E-06
G	C	0.3	-0.2880176	0.06027204	2.76E-06
C	T	0.3	-0.2908516	0.06015709	2.13E-06
A	T	0.3	-0.285892	0.06007213	3.01E-06
C	A	0.3	-0.285892	0.06007213	3.01E-06
A	G	0.33	-0.2642068	0.05864246	9.38E-06
IAAATAAATAAATAAA	A	0.28	-0.2837824	0.06166128	6.11E-06
A	C	0.3	-0.285892	0.06007213	3.01E-06
C	T	0.24	-0.2869095	0.0632231	8.12E-06
G	A	0.02	-0.9301932	0.1997702	4.80E-06
CT	C	0.1	-0.4091625	0.09110667	9.99E-06
C	A	0.02	-0.7388499	0.1640972	9.50E-06
G	A	0.01	-1.241468	0.2493678	1.09E-06
T	G	0.02	-0.9166365	0.2022302	8.32E-06
G	A	0.01	-1.259992	0.2663421	3.43E-06
G	A	0.01	-1.219643	0.2662624	6.73E-06
C	A	0.03	-0.7546149	0.1547025	1.74E-06
A	C	0.03	-0.7354827	0.1573393	4.42E-06
T	A	0.02	-0.8954416	0.1881406	3.01E-06
G	A	0.01	-1.373084	0.2508217	9.63E-08
C	T	0.03	-0.77812	0.167687	5.16E-06
C	T	0.03	-0.7354827	0.1573393	4.42E-06
G	T	0.01	-1.219643	0.2662624	6.73E-06
G	C	0.03	-0.7354827	0.1573393	4.42E-06
G	A	0.03	-0.7354827	0.1573393	4.42E-06
G	A	0.02	-1.000674	0.2157311	5.20E-06
C	A	0.03	-0.7354827	0.1573393	4.42E-06
AC	A	0.02	-0.2308519	0.0386289	7.02E-09
G	C	0.01	-0.6529066	0.1063567	2.95E-09
G	A	0.01	0.7387457	0.1236456	7.09E-09
T	A	0.04	0.4362313	0.07128432	3.23E-09
C	T	0.01	0.8440004	0.1248723	8.75E-11
T	G	0.01	0.8440004	0.1248723	8.75E-11
T	TC	0.01	0.7245659	0.1078383	1.10E-10
A	G	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7245659	0.1078383	1.10E-10
A	T	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7245659	0.1078383	1.10E-10
C	T	0.01	0.7245659	0.1078383	1.10E-10
C	T	0.01	0.7245659	0.1078383	1.10E-10
T	C	0.01	0.7245659	0.1078383	1.10E-10
C	G	0.01	0.7245659	0.1078383	1.10E-10
G	C	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7245659	0.1078383	1.10E-10
T	C	0.01	0.7245659	0.1078383	1.10E-10
AC	A	0.01	0.7245659	0.1078383	1.10E-10

G	A	0.01	0.7245659	0.1078383	1.10E-10
A	G	0.01	0.7245659	0.1078383	1.10E-10
C	T	0.01	0.7245659	0.1078383	1.10E-10
C	T	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7245659	0.1078383	1.10E-10
G	A	0.01	0.7079017	0.1123257	1.18E-09
G	A	0.01	0.7245659	0.1078383	1.10E-10
G	T	0.01	0.7245659	0.1078383	1.10E-10
A	T	0.01	0.7278608	0.1217236	6.90E-09
G	A	0.01	0.7245659	0.1078383	1.10E-10
A	G	0.01	0.7245659	0.1078383	1.10E-10
T	C	0.02	0.6934962	0.1055063	2.56E-10
A	G	0.02	0.6934962	0.1055063	2.56E-10
T	C	0.02	0.6934962	0.1055063	2.56E-10
C	G	0.02	0.6934962	0.1055063	2.56E-10
C	T	0.02	0.6934962	0.1055063	2.56E-10
C	T	0.01	0.704064	0.114371	2.65E-09
AG	A	0.02	0.6934962	0.1055063	2.56E-10
T	A	0.02	0.6934962	0.1055063	2.56E-10
A	G	0.02	0.6934962	0.1055063	2.56E-10
A	G	0.02	0.7329387	0.09954227	2.36E-12
A	AT	0.02	0.6934962	0.1055063	2.56E-10
GGTGTGTGTGTGT	G	0.01	-0.7998337	0.1301776	2.82E-09
G	A	0.01	-0.5422118	0.07804014	2.90E-11
A	G	0.01	-0.5422118	0.07804014	2.90E-11
A	G	0.01	-0.5422118	0.07804014	2.90E-11
C	T	0.01	-0.5422118	0.07804014	2.90E-11
G	A	0.01	-0.5422118	0.07804014	2.90E-11
T	C	0.01	-0.5422118	0.07804014	2.90E-11
G	A	0.1	-0.1821571	0.02953487	2.49E-09
T	A	0.01	0.8732011	0.145878	6.66E-09
G	C	0.01	-0.5287577	0.08866123	7.60E-09
G	A	0.01	-0.5136783	0.08624596	7.93E-09
G	A	0.02	0.9001061	0.1867171	2.28E-06
G	A	0.02	0.8611824	0.1810906	3.07E-06
T	C	0.02	0.9300573	0.1937732	2.51E-06
C	T	0.22	0.2961415	0.06277549	3.65E-06
GAGAT	G	0.25	-0.2756593	0.06128026	9.68E-06
A	G	0.01	1.178805	0.2608135	8.81E-06
A	ATG	0.02	0.8493411	0.1885958	9.46E-06
A	AACAC	0.05	0.628539	0.1223915	5.15E-07
A	C	0.06	0.4929216	0.1095678	9.66E-06
A	G	0.04	0.6223518	0.1257498	1.25E-06
C	T	0.05	0.5652378	0.1237344	7.12E-06
AT	A	0.02	0.7786421	0.1708383	7.45E-06
C	T	0.02	0.7786421	0.1708383	7.45E-06
T	C	0.02	0.7786421	0.1708383	7.45E-06
T	C	0.02	0.7786421	0.1708383	7.45E-06
G	T	0.02	0.9769189	0.1974044	1.25E-06
T	C	0.02	0.7786421	0.1708383	7.45E-06

G	C	0.02	0.7786421	0.1708383	7.45E-06
C	T	0.02	0.7786421	0.1708383	7.45E-06
G	A	0.02	0.7786421	0.1708383	7.45E-06
T	C	0.02	0.7786421	0.1708383	7.45E-06
C	T	0.02	0.7786421	0.1708383	7.45E-06
A	G	0.02	0.7786421	0.1708383	7.45E-06
C	T	0.02	0.7786421	0.1708383	7.45E-06
G	A	0.02	0.7786421	0.1708383	7.45E-06
A	G	0.02	0.7786421	0.1708383	7.45E-06
A	T	0.02	0.7786421	0.1708383	7.45E-06
T	A	0.02	0.8255651	0.1753671	3.81E-06
A	G	0.02	0.8269105	0.1726541	2.63E-06
C	G	0.02	1.05205	0.2005384	3.01E-07
AACAG	A	0.02	1.05205	0.2005384	3.01E-07
T	C	0.02	1.05205	0.2005384	3.01E-07
C	T	0.02	1.05205	0.2005384	3.01E-07
G	A	0.02	1.05205	0.2005384	3.01E-07
G	A	0.02	1.05205	0.2005384	3.01E-07
A	G	0.02	0.8125563	0.1702283	2.83E-06
C	T	0.02	0.8125563	0.1702283	2.83E-06
T	A	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
G	A	0.02	0.8125563	0.1702283	2.83E-06
G	T	0.02	0.8125563	0.1702283	2.83E-06
C	A	0.02	0.8125563	0.1702283	2.83E-06
G	A	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
A	ATG	0.02	0.8125563	0.1702283	2.83E-06
C	T	0.02	0.7780441	0.1679669	5.36E-06
G	A	0.02	0.8125563	0.1702283	2.83E-06
C	T	0.02	0.8125563	0.1702283	2.83E-06
A	C	0.02	0.8125563	0.1702283	2.83E-06
G	A	0.02	0.8125563	0.1702283	2.83E-06
T	A	0.02	0.8125563	0.1702283	2.83E-06
T	G	0.02	0.8125563	0.1702283	2.83E-06
C	T	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
T	C	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8346301	0.1749804	2.87E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
G	A	0.02	0.8125563	0.1702283	2.83E-06
A	C	0.02	0.8125563	0.1702283	2.83E-06
AAAAT	A	0.02	0.8125563	0.1702283	2.83E-06
C	T	0.02	0.8125563	0.1702283	2.83E-06
A	G	0.02	0.8125563	0.1702283	2.83E-06
T	C	0.02	0.8125563	0.1702283	2.83E-06
C	A	0.02	0.8125563	0.1702283	2.83E-06
T	C	0.02	0.8125563	0.1702283	2.83E-06
T	C	0.02	0.8125563	0.1702283	2.83E-06

T	A	0.02	1.024293	0.1967741	3.67E-07
A	G	0.02	0.8125563	0.1702283	2.83E-06
A	AGAGT	0.02	0.9270158	0.1775038	3.38E-07
C	T	0.02	0.9270158	0.1775038	3.38E-07
G	GA	0.02	0.9183117	0.1825336	8.50E-07
A	G	0.02	0.9183117	0.1825336	8.50E-07
C	T	0.02	0.9183117	0.1825336	8.50E-07
C	G	0.02	0.9183117	0.1825336	8.50E-07
G	A	0.02	0.9183117	0.1825336	8.50E-07
T	G	0.02	0.9183117	0.1825336	8.50E-07
T	C	0.02	0.9183117	0.1825336	8.50E-07
G	C	0.02	0.9183117	0.1825336	8.50E-07
G	A	0.02	0.9183117	0.1825336	8.50E-07
A	G	0.02	0.9183117	0.1825336	8.50E-07
T	C	0.02	0.9167702	0.1821808	8.45E-07
TTCTCTC	T	0.01	1.173148	0.2594338	8.73E-06
A	G	0.01	1.016077	0.2182909	4.84E-06
A	T	0.02	1.004142	0.2180799	6.06E-06
C	A	0.02	1.004142	0.2180799	6.06E-06
G	A	0.02	0.9514015	0.2098834	8.31E-06
A	G	0.02	1.004142	0.2180799	6.06E-06
TAC	T	0.21	0.3213839	0.07058025	7.60E-06
C	CA	0.03	0.750842	0.1658567	8.54E-06
A	C	0.02	1.003613	0.2079371	2.22E-06
AAATC	A	0.01	1.070154	0.2316657	5.67E-06
C	T	0.01	1.070154	0.2316657	5.67E-06
T	C	0.02	0.9458773	0.2026022	4.55E-06
C	G	0.01	1.070154	0.2316657	5.67E-06
G	A	0.01	1.070154	0.2316657	5.67E-06
T	C	0.01	1.070154	0.2316657	5.67E-06
G	A	0.01	1.070154	0.2316657	5.67E-06
C	A	0.01	1.070154	0.2316657	5.67E-06
G	T	0.01	1.070154	0.2316657	5.67E-06
G	A	0.19	0.2960555	0.06451815	6.50E-06
C	T	0.04	0.7186236	0.1438039	9.98E-07
T	C	0.01	1.15187	0.2535972	7.99E-06
T	C	0.01	1.163059	0.2493087	4.62E-06
G	T	0.01	1.105577	0.2412845	6.70E-06
G	A	0.02	0.8556101	0.1851495	5.63E-06
G	A	0.24	0.2698802	0.0592949	7.66E-06
G	T	0.24	0.2823175	0.05972874	3.50E-06
C	A	0.25	0.2716756	0.05783364	3.99E-06
C	T	0.25	0.2867261	0.0577952	1.18E-06
A	G	0.24	0.2931515	0.05991962	1.63E-06
C	T	0.24	0.2823175	0.05972874	3.50E-06
T	C	0.24	0.2823175	0.05972874	3.50E-06
G	A	0.24	0.2958347	0.0598986	1.31E-06
C	T	0.24	0.2958347	0.0598986	1.31E-06
A	G	0.24	0.3000531	0.05988905	9.38E-07
A	G	0.24	0.3098199	0.05999859	4.49E-07

G	A	0.24	0.3000531	0.05988905	9.38E-07
G	A	0.24	0.3000531	0.05988905	9.38E-07
T	C	0.24	0.3000531	0.05988905	9.38E-07
T	C	0.24	0.3000531	0.05988905	9.38E-07
C	A	0.24	0.2931985	0.05992504	1.63E-06
C	A	0.24	0.3000531	0.05988905	9.38E-07
A	G	0.24	0.3000531	0.05988905	9.38E-07
T	C	0.24	0.3059124	0.05986296	5.82E-07
C	T	0.24	0.3059124	0.05986296	5.82E-07
A	G	0.24	0.3086394	0.0599845	4.91E-07
G	C	0.24	0.3059124	0.05986296	5.82E-07
G	T	0.24	0.3000531	0.05988905	9.38E-07
G	T	0.24	0.3000531	0.05988905	9.38E-07
G	GA	0.24	0.2904613	0.05994079	2.03E-06
T	G	0.24	0.2986127	0.05990547	1.06E-06
A	G	0.24	0.3059124	0.05986296	5.82E-07
C	T	0.24	0.2956916	0.06008076	1.42E-06
G	A	0.24	0.2973699	0.05991047	1.17E-06
C	A	0.23	0.3432527	0.06015159	2.93E-08
G	A	0.2	0.3272123	0.06149286	2.08E-07
C	T	0.23	0.3413105	0.06015143	3.47E-08
T	C	0.23	0.3427106	0.06015202	3.07E-08
A	T	0.23	0.3369322	0.06021873	5.21E-08
C	T	0.23	0.3347627	0.06024295	6.34E-08
T	A	0.23	0.3369322	0.06021873	5.21E-08
A	G	0.23	0.3369322	0.06021873	5.21E-08
A	C	0.23	0.3369322	0.06021873	5.21E-08
G	A	0.23	0.3369322	0.06021873	5.21E-08
G	A	0.23	0.3369322	0.06021873	5.21E-08
A	T	0.23	0.3369322	0.06021873	5.21E-08
C	A	0.23	0.3369322	0.06021873	5.21E-08
A	G	0.25	0.3109571	0.05841747	2.06E-07
T	C	0.25	0.3109571	0.05841747	2.06E-07
C	T	0.14	0.3338676	0.07229109	5.70E-06
T	C	0.01	1.15929	0.2567669	9.00E-06
C	A	0.01	1.118062	0.2450448	7.29E-06
T	C	0.01	1.037698	0.2252622	6.00E-06
C	T	0.01	1.119398	0.2492262	9.97E-06
A	G	0.01	1.148948	0.2525233	7.72E-06
G	T	0.1	-0.390646	0.08572826	7.49E-06
T	C	0.05	0.5618206	0.1204594	4.64E-06
CCAT	C	0.05	0.5710762	0.123845	5.88E-06
G	C	0.07	0.47946	0.1017061	3.70E-06
T	C	0.02	0.9015941	0.1901089	3.26E-06
ATAGT	A	0.02	0.9244005	0.1937476	2.86E-06
T	TAC	0.03	0.7917656	0.1536172	4.71E-07
ATGTGTGTGTG	A	0.01	1.223522	0.2466047	1.18E-06
TACACATGCAG	T	0.01	1.056692	0.22038	2.56E-06
G	A	0.01	1.056692	0.22038	2.56E-06
G	A	0.01	1.058265	0.2262835	4.39E-06

G	A	0.03	0.7311692	0.1600875	7.15E-06
G	A	0.03	0.7311692	0.1600875	7.15E-06
G	A	0.31	-0.2585173	0.05662687	7.21E-06
C	T	0.01	1.336525	0.260407	5.23E-07
T	C	0.02	0.9073505	0.1971935	6.15E-06
T	TTA	0.03	0.6917201	0.1533377	9.15E-06
A	G	0.4	0.246519	0.05447261	8.59E-06
A	G	0.01	1.096848	0.2228421	1.42E-06
G	GT	0.01	1.154897	0.2315212	1.04E-06
C	A	0.01	1.2189	0.2625763	5.12E-06
TA	T	0.16	0.3354234	0.07357834	7.42E-06
ATG	A	0.01	1.152701	0.2522461	7.07E-06
C	T	0.02	0.8565153	0.1872669	6.95E-06
C	G	0.03	0.7035905	0.1438539	1.64E-06
C	T	0.02	0.8914324	0.183202	1.85E-06
C	T	0.01	1.137613	0.2380501	2.76E-06
C	T	0.05	0.5823093	0.125819	5.45E-06
G	A	0.01	1.288574	0.2493581	4.41E-07
A	AAAAT	0.07	0.5115479	0.105723	2.10E-06
C	T	0.02	0.8724222	0.1917487	7.72E-06
C	G	0.02	0.6275627	0.1049153	6.83E-09
AACAG	A	0.02	0.6275627	0.1049153	6.83E-09
T	C	0.02	0.6275627	0.1049153	6.83E-09
C	T	0.02	0.6275627	0.1049153	6.83E-09
G	A	0.02	0.6275627	0.1049153	6.83E-09
G	A	0.02	0.6275627	0.1049153	6.83E-09
C	T	0.01	0.9194465	0.1480077	1.95E-09
T	G	0.01	0.9194465	0.1480077	1.95E-09
T	TC	0.01	0.7757896	0.1279466	4.40E-09
A	G	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
A	T	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
C	T	0.01	0.7757896	0.1279466	4.40E-09
C	T	0.01	0.7757896	0.1279466	4.40E-09
T	C	0.01	0.7757896	0.1279466	4.40E-09
C	G	0.01	0.7757896	0.1279466	4.40E-09
G	C	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
T	C	0.01	0.7757896	0.1279466	4.40E-09
AC	A	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
A	G	0.01	0.7757896	0.1279466	4.40E-09
C	T	0.01	0.7757896	0.1279466	4.40E-09
C	T	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09
G	T	0.01	0.7757896	0.1279466	4.40E-09
G	A	0.01	0.7757896	0.1279466	4.40E-09

A	G	0.01	0.7757896	0.1279466	4.40E-09
A	G	0.02	0.7505054	0.1185529	1.01E-09
C	A	0.01	0.7738312	0.1300805	8.15E-09
AGTGT	A	0.15	-0.2630026	0.04308314	3.62E-09
T	A	0.02	1.11808	0.1877239	9.60E-09
C	T	0.05	0.3957305	0.06141594	5.34E-10
T	C	0.05	0.3947569	0.06429715	2.90E-09
G	A	0.05	0.3947569	0.06429715	2.90E-09
G	A	0.05	0.3947569	0.06429715	2.90E-09
C	T	0.02	0.5339018	0.08946029	7.52E-09
C	T	0.02	0.3904781	0.06435427	4.43E-09
C	T	0.02	0.5430055	0.09121748	8.20E-09
T	C	0.02	0.5170843	0.0826499	1.57E-09
G	A	0.02	0.5170843	0.0826499	1.57E-09
G	A	0.02	0.5140367	0.084417	3.92E-09
T	C	0.02	0.5170843	0.0826499	1.57E-09
A	G	0.02	0.5170843	0.0826499	1.57E-09
A	C	0.02	0.5170843	0.0826499	1.57E-09
C	T	0.02	0.5170843	0.0826499	1.57E-09
TA	T	0.02	0.5170843	0.0826499	1.57E-09
A	C	0.02	0.5170843	0.0826499	1.57E-09
G	A	0.02	0.5170843	0.0826499	1.57E-09
T	C	0.02	0.5170843	0.0826499	1.57E-09
G	A	0.02	0.5170843	0.0826499	1.57E-09
C	A	0.02	0.5170843	0.0826499	1.57E-09
G	A	0.02	0.5170843	0.0826499	1.57E-09
C	T	0.02	0.5170843	0.0826499	1.57E-09
A	G	0.02	0.5170843	0.0826499	1.57E-09
A	G	0.02	0.5170843	0.0826499	1.57E-09
C	T	0.02	0.5339677	0.08387798	8.55E-10
T	A	0.02	0.5170843	0.0826499	1.57E-09
T	C	0.02	0.3749521	0.06233806	5.88E-09
G	A	0.02	0.3749521	0.06233806	5.88E-09
G	A	0.02	0.3810688	0.06348164	6.27E-09
T	C	0.02	0.3749521	0.06233806	5.88E-09
A	G	0.02	0.3749521	0.06233806	5.88E-09
A	C	0.02	0.3749521	0.06233806	5.88E-09
C	T	0.02	0.3749521	0.06233806	5.88E-09
TA	T	0.02	0.3749521	0.06233806	5.88E-09
A	C	0.02	0.3749521	0.06233806	5.88E-09
G	A	0.02	0.3749521	0.06233806	5.88E-09
T	C	0.02	0.3749521	0.06233806	5.88E-09
G	A	0.02	0.3749521	0.06233806	5.88E-09
C	A	0.02	0.3749521	0.06233806	5.88E-09
G	A	0.02	0.3749521	0.06233806	5.88E-09
C	T	0.02	0.3749521	0.06233806	5.88E-09
A	G	0.02	0.3749521	0.06233806	5.88E-09
A	G	0.02	0.3749521	0.06233806	5.88E-09
C	T	0.02	0.3995892	0.06328335	1.14E-09
T	A	0.02	0.3749521	0.06233806	5.88E-09

G	A	0.01	-0.888729	0.1478967	6.40E-09
C	T	0.02	0.5589098	0.092255	4.63E-09
C	T	0.02	0.5036495	0.08249651	3.97E-09
G	A	0.02	0.4229238	0.07139633	9.56E-09
C	T	0.02	0.4385227	0.07083155	2.25E-09
T	C	0.06	0.3191515	0.05121762	1.79E-09
A	T	0.01	0.8604941	0.1398639	2.86E-09
C	T	0.01	0.5735246	0.09362615	3.24E-09
C	T	0.03	0.5847574	0.09233687	1.08E-09
C	G	0.02	0.5893115	0.09349535	1.27E-09
A	G	0.02	0.587275	0.09875074	8.50E-09
T	C	0.02	0.3905195	0.06528379	6.99E-09
T	G	0.02	0.5332872	0.090062	9.66E-09
AC	A	0.44	0.1186264	0.02418932	1.54E-06
C	T	0.02	0.4403396	0.0962656	6.93E-06
TAC	T	0.01	0.5858717	0.1214802	2.25E-06
T	A	0.25	-0.1279109	0.02815136	7.93E-06
G	T	0.26	-0.127191	0.02783806	7.09E-06
T	C	0.25	-0.1305029	0.02838694	6.25E-06
A	G	0.24	-0.1330688	0.02832235	3.97E-06
T	C	0.24	-0.1321257	0.02767494	2.81E-06
T	C	0.24	-0.1266863	0.02770937	6.99E-06
A	G	0.24	-0.1322102	0.02833176	4.59E-06
C	CAA	0.24	-0.1257198	0.02752757	7.15E-06
A	G	0.24	-0.1304206	0.02779896	4.10E-06
C	T	0.24	-0.129201	0.02779948	4.99E-06
G	A	0.23	-0.1349548	0.02867742	3.84E-06
T	C	0.23	-0.1361458	0.02853106	2.84E-06
A	G	0.23	-0.1343078	0.02854793	3.86E-06
G	A	0.45	0.1069331	0.02378041	9.74E-06
A	G	0.21	0.1304654	0.02873623	8.05E-06
CAA	C	0.22	0.1381236	0.02877416	2.50E-06
G	A	0.02	0.4012497	0.08700992	5.87E-06
C	T	0.39	0.1214176	0.02506249	2.04E-06
TCA	T	0.06	-0.2444186	0.05405308	8.73E-06
G	A	0.28	0.1225251	0.02722949	9.61E-06
AT	A	0.14	0.1619315	0.0356411	7.94E-06
G	A	0.01	0.4899238	0.1031501	3.15E-06
G	A	0.01	0.4899238	0.1031501	3.15E-06
G	A	0.01	0.4774902	0.1058309	9.12E-06
T	C	0.02	0.4545344	0.1008934	9.39E-06
T	C	0.02	0.3974224	0.08822978	9.42E-06
C	T	0.04	0.2790517	0.06138144	7.84E-06
CAAAAT	C	0.04	0.2790517	0.06138144	7.84E-06
A	G	0.04	0.2790517	0.06138144	7.84E-06
T	C	0.04	0.2687705	0.05935417	8.48E-06
TACACAC	T	0.03	0.3199049	0.06989664	6.85E-06
T	C	0.1	0.1962477	0.04137487	3.24E-06
G	A	0.09	0.1920886	0.04236641	8.27E-06
G	C	0.1	0.196259	0.04119636	2.95E-06

G	A	0.09	0.190348	0.04196744	8.21E-06
A	G	0.1	0.1984652	0.04095954	2.03E-06
G	A	0.1	0.1920066	0.04077108	3.78E-06
CCA	C	0.17	0.1675653	0.03537309	3.33E-06
G	C	0.15	-0.1664413	0.0344404	2.15E-06
TAC	T	0.05	0.299258	0.05871747	6.20E-07
C	T	0.46	-0.1094912	0.02370834	5.69E-06
T	A	0.12	0.1580459	0.03450402	6.73E-06
A	AACAC	0.02	0.4131782	0.09034999	6.96E-06
AATGG	A	0.42	-0.1093022	0.02360435	5.39E-06
C	T	0.05	0.27193	0.06018914	8.88E-06
G	A	0.05	0.27193	0.06018914	8.88E-06
T	C	0.05	0.27193	0.06018914	8.88E-06
A	G	0.04	0.281844	0.06146801	6.60E-06
T	TGTGTGA	0.08	-0.2102114	0.04656813	9.03E-06
C	A	0.06	0.2261242	0.0476757	3.24E-06
G	A	0.3	0.1137452	0.02474513	6.27E-06
G	A	0.44	0.1298924	0.02323239	5.31E-08
G	A	0.44	0.1298924	0.02323239	5.31E-08
T	C	0.36	0.1330418	0.0242477	9.04E-08
G	A	0.42	0.1266057	0.02332362	1.21E-07
A	G	0.44	0.1304371	0.02322038	4.64E-08
G	A	0.39	-0.1202939	0.02448735	1.48E-06
T	C	0.47	0.1261346	0.02433823	4.09E-07
G	A	0.1	0.1928308	0.0426462	8.73E-06
T	C	0.1	0.1928308	0.0426462	8.73E-06
C	T	0.23	0.1450779	0.03226674	9.76E-06
C	T	0.12	0.177274	0.03931995	9.25E-06
T	C	0.14	0.1818564	0.03634228	9.65E-07
T	TAC	0.06	0.2579037	0.05503299	4.19E-06
A	GTGTGTGTGTGTGTG	0.01	0.5256608	0.1170006	9.91E-06
A	G	0.22	0.1392735	0.03059038	7.61E-06
T	C	0.22	0.138849	0.03060886	8.19E-06
AAC	A	0.02	0.4942841	0.1035862	2.85E-06
GC	G	0.06	0.2390539	0.05313212	9.63E-06
C	G	0.06	0.2387312	0.05313861	9.92E-06
T	C	0.29	-0.1301579	0.02865199	7.96E-06
A	G	0.06	-0.2472727	0.05413375	7.12E-06
G	C	0.06	-0.2472727	0.05413375	7.12E-06
C	G	0.06	-0.2467096	0.05294793	4.73E-06
T	C	0.06	-0.2472727	0.05413375	7.12E-06
A	G	0.06	-0.2472727	0.05413375	7.12E-06
T	A	0.06	-0.2472727	0.05413375	7.12E-06
T	A	0.07	-0.2471155	0.05192497	3.02E-06
A	T	0.06	-0.2466565	0.05295333	4.77E-06
G	T	0.06	-0.2472727	0.05413375	7.12E-06
C	T	0.06	-0.2472727	0.05413375	7.12E-06
T	A	0.06	-0.2472727	0.05413375	7.12E-06
C	T	0.06	-0.2472727	0.05413375	7.12E-06
C	T	0.06	-0.2413292	0.05367476	9.76E-06

C	T	0.06	-0.2413292	0.05367476	9.76E-06
T	G	0.06	-0.2472727	0.05413375	7.12E-06
C	T	0.06	-0.2472727	0.05413375	7.12E-06
G	A	0.06	-0.2472727	0.05413375	7.12E-06
T	C	0.06	-0.2472727	0.05413375	7.12E-06
C	T	0.06	-0.2560427	0.05430849	3.69E-06
T	C	0.06	-0.2560427	0.05430849	3.69E-06
G	C	0.06	-0.2526201	0.0545731	5.43E-06
GA	G	0.06	-0.2560427	0.05430849	3.69E-06
T	A	0.06	-0.2560427	0.05430849	3.69E-06
G	A	0.06	-0.2530938	0.05459082	5.25E-06
G	T	0.06	-0.2560427	0.05430849	3.69E-06
G	A	0.06	-0.2560427	0.05430849	3.69E-06
T	C	0.06	-0.2560427	0.05430849	3.69E-06
A	C	0.06	-0.2560427	0.05430849	3.69E-06
G	A	0.06	-0.2560427	0.05430849	3.69E-06
G	T	0.06	-0.2560427	0.05430849	3.69E-06
G	A	0.06	-0.2560427	0.05430849	3.69E-06
C	T	0.06	-0.253398	0.05460605	5.16E-06
G	A	0.06	-0.2560427	0.05430849	3.69E-06
G	C	0.06	-0.2496982	0.05486798	7.68E-06
C	T	0.06	-0.2695689	0.05639509	2.74E-06
A	C	0.06	-0.2560427	0.05430849	3.69E-06
G	T	0.06	-0.2560427	0.05430849	3.69E-06
C	T	0.06	-0.2560427	0.05430849	3.69E-06
T	A	0.06	-0.2532748	0.05459571	5.19E-06
G	T	0.06	-0.2528317	0.05457925	5.35E-06
A	G	0.06	-0.2560427	0.05430849	3.69E-06
T	A	0.06	-0.2560427	0.05430849	3.69E-06
C	T	0.06	-0.2560427	0.05430849	3.69E-06
G	A	0.06	-0.2658934	0.05452437	1.75E-06
C	G	0.06	-0.2658934	0.05452437	1.75E-06
T	C	0.06	-0.2709744	0.05625171	2.31E-06
T	C	0.07	-0.2423329	0.05359936	8.75E-06
G	A	0.06	-0.2544971	0.05533474	6.20E-06
T	C	0.06	-0.2544971	0.05533474	6.20E-06
A	G	0.06	-0.2544971	0.05533474	6.20E-06
T	TCTGCTG	0.06	-0.2773609	0.05405357	5.25E-07
G	A	0.13	0.1763221	0.03897885	8.66E-06
C	T	0.08	-0.2233596	0.04946085	8.96E-06
T	A	0.07	0.2305522	0.05081769	8.17E-06
A	AT	0.34	0.1188508	0.02594488	6.72E-06
C	T	0.29	0.1399705	0.02818059	1.15E-06
TACACACACACAC	T	0.29	0.1307981	0.02808333	4.78E-06
G	T	0.3	0.1363758	0.02773707	1.46E-06
T	A	0.3	0.1341514	0.02753842	1.80E-06
C	G	0.3	0.139191	0.02751298	7.42E-07
C	CA	0.31	0.1291864	0.02744944	3.83E-06
G	T	0.3	0.1372992	0.02751447	1.03E-06
G	T	0.3	0.1363484	0.02761097	1.32E-06

G	A	0.3	0.1373836	0.02752121	1.02E-06
T	G	0.3	0.1339329	0.02746972	1.76E-06
T	A	0.3	0.1375497	0.02758775	1.05E-06
G	A	0.3	0.1308391	0.02781054	3.86E-06
T	A	0.42	-0.1142318	0.02515947	8.04E-06
GACAC	G	0.09	0.2048764	0.04509504	7.94E-06
T	C	0.25	-0.1367918	0.02994608	7.12E-06
C	T	0.48	-0.1258558	0.02502231	8.54E-07
T	TTTTG	0.02	-0.4175472	0.0898109	4.96E-06
C	A	0.47	-0.1253178	0.02453672	5.89E-07
T	C	0.48	-0.1320239	0.02426697	1.14E-07
G	A	0.29	0.1284795	0.02832017	8.17E-06
A	G	0.31	-0.1290228	0.02872308	9.95E-06
CT	C	0.34	0.1233317	0.02679309	6.09E-06
C	T	0.37	-0.1184236	0.02626838	9.26E-06
A	G	0.37	-0.1202137	0.02631165	7.09E-06
A	AG	0.1	0.1852648	0.04122454	9.86E-06
C	T	0.09	0.2024158	0.04214585	2.47E-06
G	A	0.08	0.2142229	0.04585335	4.48E-06
A	G	0.1	0.1843791	0.04075366	8.63E-06
G	A	0.1	0.1826264	0.04024872	8.15E-06
T	C	0.1	0.182713	0.04057791	9.49E-06
T	G	0.1	0.183814	0.0405674	8.38E-06
A	G	0.1	0.183814	0.0405674	8.38E-06
TAG	T	0.01	0.4971542	0.1093251	7.79E-06
TG	T	0.02	0.4752979	0.100087	3.16E-06
A	C	0.2	0.1443836	0.03170579	7.58E-06
G	A	0.43	-0.2413351	0.05343684	8.95E-06
C	T	0.02	-0.9940007	0.2169405	6.70E-06
C	CTT	0.01	-1.188473	0.2534056	4.13E-06
G	T	0.15	-0.3332294	0.07276256	6.76E-06
A	G	0.14	-0.3416363	0.0745372	6.65E-06
A	T	0.01	-1.119974	0.2336685	2.58E-06
T	TAC	0.38	0.2948201	0.05966265	1.30E-06
A	C	0.02	-0.9880273	0.2122833	4.85E-06
G	C	0.01	-1.000007	0.2214744	8.99E-06
C	T	0.02	-1.072139	0.2127991	8.20E-07
A	T	0.03	-0.753612	0.165402	7.50E-06
A	G	0.02	-1.037207	0.2190699	3.37E-06
T	TA	0.03	-0.6836587	0.1500899	7.54E-06
A	G	0.02	-1.037207	0.2190699	3.37E-06
A	T	0.01	-1.18781	0.2403656	1.30E-06
G	A	0.06	-0.5359024	0.1159306	5.59E-06
T	TA	0.03	-0.6876281	0.1470796	4.41E-06
C	T	0.01	-1.064862	0.2324518	6.72E-06
G	A	0.01	-0.9828667	0.2152892	7.21E-06
C	T	0.01	-1.005435	0.2228667	9.14E-06
G	C	0.01	-1.205398	0.2457746	1.54E-06
G	GAA	0.29	0.2540632	0.05609551	8.45E-06
T	C	0.02	-1.08009	0.2066747	3.31E-07

A	G	0.02	-0.9074014	0.1744746	3.75E-07
T	C	0.03	-0.6835214	0.1505734	8.08E-06
CAA	C	0.02	-0.9374507	0.2082509	9.54E-06
T	TTGATATACGATCC	0.02	-1.006553	0.2042195	1.38E-06
T	C	0.02	-0.8043075	0.1741612	5.70E-06
C	T	0.03	-0.654473	0.1453393	9.48E-06
G	C	0.01	-1.150991	0.2376713	2.05E-06
G	A	0.01	-1.150991	0.2376713	2.05E-06
A	G	0.01	-1.150991	0.2376713	2.05E-06
A	T	0.01	-1.150991	0.2376713	2.05E-06
G	A	0.01	-1.150991	0.2376713	2.05E-06
G	C	0.02	-0.7998161	0.1693614	3.56E-06
A	AGTGTGT	0.01	-1.164236	0.2399993	1.98E-06
C	T	0.03	-0.7010224	0.1550961	8.80E-06
T	C	0.03	-0.7634409	0.1577651	2.09E-06
C	T	0.02	-1.100105	0.2071741	2.19E-07
T	C	0.01	-1.100951	0.2278824	2.17E-06
C	T	0.02	-1.064625	0.2177724	1.66E-06
A	G	0.02	-1.064625	0.2177724	1.66E-06
C	T	0.01	-1.100951	0.2278824	2.17E-06
G	A	0.25	-0.2808421	0.06215815	8.87E-06
AT	A	0.01	-1.130169	0.2399681	3.78E-06
T	C	0.13	-0.3506225	0.07625043	6.23E-06
A	C	0.13	-0.3506225	0.07625043	6.23E-06
T	C	0.01	-1.164373	0.2535483	6.39E-06
C	T	0.14	0.3495197	0.07323562	2.84E-06
C	CT	0.08	-0.45195	0.09786375	5.70E-06
T	TTGTGTGTGTGTG	0.05	-0.5330568	0.1120103	3.02E-06
G	GAAC	0.01	-1.156424	0.2510043	5.98E-06
C	T	0.03	-0.7513175	0.1640679	6.77E-06
G	T	0.05	-0.5705516	0.1267168	9.50E-06
T	G	0.42	0.2390366	0.05179887	5.79E-06
G	T	0.04	-0.6026671	0.1339915	9.70E-06
C	T	0.04	-0.6212867	0.1369789	8.22E-06
T	C	0.04	-0.6710655	0.1439592	4.69E-06
C	T	0.04	-0.7046553	0.1449301	1.88E-06
T	G	0.04	-0.7297823	0.145886	9.73E-07
C	T	0.04	-0.6710655	0.1439592	4.69E-06
C	T	0.04	-0.6810763	0.1464679	4.94E-06
C	T	0.04	-0.6710655	0.1439592	4.69E-06
G	A	0.04	-0.6810763	0.1464679	4.94E-06
C	T	0.04	-0.6710655	0.1439592	4.69E-06
A	G	0.04	-0.6810763	0.1464679	4.94E-06
G	A	0.03	-0.7896508	0.1542976	5.61E-07
G	A	0.04	-0.703813	0.1462173	2.35E-06
A	AG	0.05	-0.5603349	0.1223097	6.71E-06
TG	T	0.37	-0.2457462	0.05429468	8.56E-06
G	C	0.06	-0.4944161	0.1058805	4.53E-06
G	A	0.14	0.346967	0.07658269	8.40E-06
C	T	0.06	-0.5432693	0.1113434	1.73E-06

T	C	0.22	0.294599	0.0636011	5.36E-06
G	A	0.01	-1.184525	0.2619283	8.71E-06
T	A	0.02	-0.8757281	0.1801266	1.88E-06
C	T	0.03	-0.6424839	0.1395429	6.06E-06
G	A	0.01	-1.233633	0.2459867	9.16E-07
C	CG	0.03	-0.7405917	0.16006	5.48E-06
G	A	0.03	-0.7405917	0.16006	5.48E-06
T	C	0.03	-0.7405917	0.16006	5.48E-06
A	C	0.03	-0.7347799	0.1620352	8.25E-06
C	T	0.03	-0.77226	0.1619417	2.89E-06
G	A	0.03	-0.6424839	0.1395429	6.06E-06
G	T	0.01	-1.184525	0.2619283	8.71E-06
G	A	0.04	-0.6502832	0.1440962	9.08E-06
G	A	0.02	-1.032771	0.2120234	1.80E-06
T	C	0.01	-1.138721	0.228311	1.04E-06
AT	A	0.02	-0.8443886	0.1818053	5.07E-06
TA	T	0.03	-0.7207283	0.1524761	3.49E-06
T	C	0.03	-0.6997364	0.149659	4.41E-06
T	C	0.44	0.2449144	0.05409669	8.52E-06
T	G	0.44	0.2449144	0.05409669	8.52E-06
T	C	0.44	0.2449144	0.05409669	8.52E-06
AG	A	0.01	-1.209703	0.2433295	1.13E-06
T	C	0.02	-0.7142331	0.1204829	9.35E-09
T	C	0.01	-0.6683439	0.1088959	2.97E-09
CTT	C	0.01	-0.7511845	0.1253848	6.95E-09
C	CGTGTGTGT	0.01	-0.4602866	0.07440445	2.24E-09
G	T	0.02	-0.3219971	0.05291411	3.91E-09
T	C	0.03	-0.2267389	0.03828777	9.43E-09
G	C	0.03	-0.2267389	0.03828777	9.43E-09
TGAATGTTGTG	T	0.02	-0.4216392	0.06874016	3.00E-09
G	A	0.02	-0.4223161	0.0706221	6.90E-09
G	A	0.01	-0.5112894	0.07865446	3.90E-10
A	G	0.01	-0.5112894	0.07865446	3.90E-10
A	G	0.01	-0.5112894	0.07865446	3.90E-10
C	T	0.01	-0.5112894	0.07865446	3.90E-10
G	A	0.01	-0.5112894	0.07865446	3.90E-10
T	C	0.01	-0.5112894	0.07865446	3.90E-10
G	T	0.01	-0.5166646	0.08716015	9.17E-09
CT	C	0.04	0.6246935	0.1256729	1.13E-06
G	C	0.01	-0.976133	0.2151533	8.18E-06
G	A	0.01	-0.976133	0.2151533	8.18E-06
C	T	0.41	0.2473848	0.05124068	2.20E-06
G	C	0.24	-0.2843724	0.06188405	6.32E-06
C	T	0.24	-0.2859381	0.06188337	5.65E-06
C	T	0.24	-0.280858	0.06160941	7.43E-06
G	T	0.24	-0.2843724	0.06188405	6.32E-06
G	A	0.24	-0.2803107	0.06161868	7.75E-06
G	A	0.24	-0.2767614	0.06115409	8.60E-06
C	T	0.01	1.29331	0.2536599	6.16E-07
A	ATCC	0.02	0.8219571	0.1775391	5.42E-06

T	TACACACACAC	0.01	1.065736	0.2167901	1.46E-06
C	T	0.09	0.4369225	0.08749794	1.02E-06
C	T	0.03	0.6666559	0.1454548	6.67E-06
A	G	0.05	0.5345957	0.1146027	4.63E-06
A	AG	0.05	0.5345957	0.1146027	4.63E-06
TA	T	0.05	0.5345957	0.1146027	4.63E-06
G	GTCTC	0.05	0.5328634	0.1179758	8.94E-06
C	G	0.05	0.5345957	0.1146027	4.63E-06
T	G	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
T	G	0.05	0.5345957	0.1146027	4.63E-06
A	G	0.05	0.5345957	0.1146027	4.63E-06
T	A	0.05	0.5345957	0.1146027	4.63E-06
C	A	0.05	0.5345957	0.1146027	4.63E-06
T	A	0.05	0.5345957	0.1146027	4.63E-06
C	A	0.05	0.5345957	0.1146027	4.63E-06
T	G	0.05	0.5345957	0.1146027	4.63E-06
AGTTT	A	0.05	0.5345957	0.1146027	4.63E-06
T	C	0.05	0.5345957	0.1146027	4.63E-06
T	C	0.05	0.5345957	0.1146027	4.63E-06
T	C	0.05	0.5345957	0.1146027	4.63E-06
G	A	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
C	G	0.05	0.5345957	0.1146027	4.63E-06
C	A	0.05	0.5345957	0.1146027	4.63E-06
T	G	0.05	0.52225	0.1151815	8.28E-06
G	C	0.05	0.5345957	0.1146027	4.63E-06
C	A	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
G	C	0.05	0.5345957	0.1146027	4.63E-06
A	G	0.05	0.5337852	0.1153033	5.43E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
G	A	0.05	0.5345957	0.1146027	4.63E-06
AG	A	0.05	0.5345957	0.1146027	4.63E-06
A	G	0.05	0.5264164	0.1121107	4.03E-06
G	C	0.05	0.5264164	0.1121107	4.03E-06
T	A	0.05	0.5345957	0.1146027	4.63E-06
A	G	0.05	0.5345957	0.1146027	4.63E-06
G	A	0.05	0.5265735	0.1154743	7.39E-06
A	G	0.05	0.5264164	0.1121107	4.03E-06
T	C	0.05	0.5264164	0.1121107	4.03E-06
G	T	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5345957	0.1146027	4.63E-06
A	T	0.05	0.5264164	0.1121107	4.03E-06
A	G	0.05	0.5264164	0.1121107	4.03E-06
A	G	0.05	0.5264164	0.1121107	4.03E-06
C	A	0.05	0.5345957	0.1146027	4.63E-06
G	T	0.05	0.5264164	0.1121107	4.03E-06
T	C	0.05	0.5264164	0.1121107	4.03E-06

C	T	0.05	0.5345957	0.1146027	4.63E-06
G	C	0.05	0.5345957	0.1146027	4.63E-06
C	T	0.05	0.5192526	0.1142977	7.96E-06
T	C	0.05	0.511356	0.1137507	9.81E-06
G	A	0.05	0.5241751	0.1134404	5.64E-06
T	A	0.05	0.5241751	0.1134404	5.64E-06
C	T	0.05	0.5023359	0.1113779	9.20E-06
A	AAATAAT	0.03	-0.662916	0.1443926	6.44E-06
G	T	0.07	0.470644	0.1024652	6.38E-06
A	G	0.32	-0.2722601	0.0532332	5.71E-07
G	T	0.46	-0.2294866	0.05091288	9.31E-06
T	C	0.22	-0.2768018	0.06133172	9.08E-06
G	A	0.23	-0.2760938	0.06113115	8.95E-06
T	C	0.22	-0.2768018	0.06133172	9.08E-06
A	G	0.23	-0.2813861	0.06082519	5.51E-06
A	T	0.22	-0.2768018	0.06133172	9.08E-06
A	G	0.22	-0.2783813	0.06111184	7.54E-06
G	T	0.22	-0.2768021	0.06134045	9.10E-06
C	T	0.22	-0.2787019	0.06133135	7.92E-06
CTGTT	C	0.22	-0.2811639	0.06135555	6.69E-06
C	T	0.22	-0.2768018	0.06133172	9.08E-06
C	T	0.23	-0.2760938	0.06113115	8.95E-06
T	TA	0.22	-0.2766441	0.06140914	9.41E-06
CTG	C	0.22	-0.2806849	0.06163706	7.59E-06
A	G	0.22	-0.2755859	0.06135192	9.97E-06
G	T	0.22	-0.2761826	0.06148345	9.96E-06
G	C	0.02	0.9430617	0.2050031	6.18E-06
G	C	0.02	0.9430617	0.2050031	6.18E-06
A	AT	0.02	0.8575481	0.1882087	7.51E-06
T	C	0.02	0.8687145	0.1889381	6.25E-06
G	GT	0.01	0.9688673	0.2021572	2.59E-06
A	G	0.04	0.6567017	0.1388848	3.48E-06
TAC	T	0.02	0.9290774	0.1983673	4.26E-06
T	C	0.05	0.5121443	0.1110423	5.86E-06
G	C	0.01	1.066953	0.2352501	8.24E-06
T	TGTACGTAC	0.01	1.004664	0.2226	9.07E-06
A	T	0.28	0.2573143	0.05627936	7.00E-06
G	A	0.28	0.2573143	0.05627936	7.00E-06
G	A	0.02	0.9149219	0.1932888	3.40E-06
G	A	0.02	0.919611	0.1964378	4.30E-06
T	A	0.35	0.2503505	0.05390083	5.07E-06
A	T	0.33	0.2441774	0.05391915	8.49E-06
C	T	0.33	0.2478337	0.05439696	7.52E-06
C	A	0.07	0.4543215	0.09808072	5.36E-06
TA	T	0.13	0.338476	0.07527169	9.76E-06
A	G	0.05	0.544834	0.1207392	9.11E-06
C	T	0.05	-0.5257821	0.1127973	4.71E-06
A	G	0.14	-0.3421856	0.06982388	1.57E-06
T	C	0.05	0.5637417	0.1159793	1.89E-06
CTTCT	C	0.03	0.6852117	0.1478809	5.33E-06

TCTC	T	0.03	0.6448559	0.136558	3.57E-06
C	T	0.2	0.2958298	0.06422056	6.01E-06
C	A	0.2	0.2832737	0.06267648	8.83E-06
G	GGGAT	0.16	0.3221453	0.07132751	8.95E-06
G	GGAAA	0.06	0.4861304	0.1079947	9.56E-06
G	A	0.15	0.328051	0.07188131	7.27E-06
A	G	0.01	1.146041	0.2530569	8.48E-06
T	A	0.01	1.146041	0.2530569	8.48E-06
T	TG	0.01	1.146041	0.2530569	8.48E-06
C	T	0.01	0.9482113	0.1588963	7.36E-09
C	CT	0.01	0.9004249	0.1520476	9.39E-09
G	A	0.01	0.8821518	0.146812	6.03E-09
C	T	0.01	1.43779	0.2312136	1.98E-09
C	T	0.01	1.058841	0.1706601	2.04E-09
T	G	0.02	0.6846858	0.1158075	9.92E-09
T	C	0.04	0.5410492	0.08920219	5.09E-09
G	T	0.02	-0.9006058	0.14856	5.51E-09
A	G	0.12	-0.3522723	0.0561605	1.67E-09
G	A	0.01	0.5622828	0.1191988	3.65E-06
GCA	G	0.02	0.3553451	0.07771964	6.99E-06
A	G	0.02	0.4073037	0.08547484	2.93E-06
T	C	0.02	0.4187956	0.08941457	4.24E-06
G	A	0.12	0.1501442	0.03291656	7.33E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
G	A	0.02	0.3795918	0.08219746	5.70E-06
T	C	0.02	0.3795918	0.08219746	5.70E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
A	G	0.02	0.3795918	0.08219746	5.70E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
C	A	0.02	0.3795918	0.08219746	5.70E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
TTC	T	0.02	0.4116265	0.09031144	7.44E-06
T	C	0.02	0.3918469	0.08079549	1.99E-06
C	G	0.02	0.3918469	0.08079549	1.99E-06
A	G	0.02	0.3918469	0.08079549	1.99E-06
TA	T	0.02	0.3918469	0.08079549	1.99E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
T	C	0.02	0.3795918	0.08219746	5.70E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
C	T	0.02	0.3795918	0.08219746	5.70E-06
A	G	0.02	0.3604837	0.0785665	6.51E-06
T	C	0.02	0.3604837	0.0785665	6.51E-06
G	A	0.02	0.3816593	0.0796053	2.57E-06
G	A	0.02	0.3604837	0.0785665	6.51E-06
T	C	0.02	0.3709611	0.07737108	2.56E-06
T	A	0.04	0.2993307	0.064599	5.31E-06
G	T	0.07	0.2037028	0.04528548	9.68E-06
C	T	0.29	-0.1200126	0.02618097	6.63E-06
A	G	0.04	0.2909636	0.06270462	5.16E-06
T	A	0.23	0.129692	0.02744702	3.52E-06

T	G	0.25	0.1263466	0.02709943	4.67E-06
A	T	0.25	0.125571	0.0269933	4.90E-06
A	G	0.01	0.5433487	0.1184166	6.50E-06
C	T	0.02	0.4054999	0.08026796	7.69E-07
T	C	0.03	0.2978722	0.06610694	9.36E-06
C	G	0.23	0.1259399	0.0279538	9.38E-06
G	A	0.01	0.5212773	0.1115593	4.46E-06
C	T	0.35	0.1174054	0.02572094	7.23E-06
CCCCACACA	C	0.02	0.41125	0.08970192	6.61E-06
A	AT	0.01	0.5302548	0.1173528	8.86E-06
C	T	0.02	0.5007043	0.08661503	1.98E-08
C	G	0.02	0.5413947	0.09528972	3.33E-08
C	T	0.02	0.5413947	0.09528972	3.33E-08
A	T	0.02	0.5413947	0.09528972	3.33E-08
G	A	0.02	0.4747889	0.09171811	4.21E-07
CAT	C	0.02	0.5413947	0.09528972	3.33E-08
G	A	0.01	0.5389605	0.1077533	9.75E-07
CTG	C	0.02	0.3684295	0.07883769	4.45E-06
T	G	0.02	0.3684295	0.07883769	4.45E-06
GGTGT	G	0.02	0.4909603	0.09424681	3.59E-07
A	T	0.02	0.3321682	0.07385738	9.71E-06
CT	C	0.01	0.5241452	0.1162107	9.18E-06
T	C	0.03	0.3261217	0.07259723	9.93E-06
A	C	0.03	0.3058707	0.06540397	4.38E-06
T	TTC	0.02	0.3719577	0.07822711	3.07E-06
C	T	0.02	0.4118054	0.08876946	5.19E-06
A	G	0.18	0.1394344	0.02965368	3.91E-06
G	C	0.01	0.4703298	0.1035909	8.05E-06
G	A	0.01	0.5450896	0.1161652	4.08E-06
G	C	0.07	0.2152759	0.04551589	3.45E-06
C	T	0.1	0.1815135	0.04029787	9.42E-06
C	T	0.06	-0.2355086	0.0505469	4.74E-06
T	C	0.05	-0.2345113	0.05081399	5.77E-06
A	G	0.01	0.513914	0.1029566	1.02E-06
A	G	0.11	0.1910399	0.03925413	1.84E-06
C	G	0.1	0.1865739	0.0400164	4.67E-06
A	G	0.11	0.1981639	0.03922603	7.68E-07
G	A	0.11	0.193723	0.03952149	1.56E-06
C	A	0.19	-0.1335103	0.02972398	9.96E-06
A	G	0.21	-0.1422724	0.02983812	2.89E-06
C	G	0.2	-0.1378037	0.03024063	7.48E-06
T	A	0.21	-0.1399054	0.03021666	5.40E-06
G	A	0.21	-0.1396605	0.03017269	5.43E-06
C	G	0.2	-0.1366134	0.03025939	9.00E-06
T	G	0.2	-0.1375055	0.03023704	7.79E-06
T	C	0.19	-0.1552346	0.0306397	7.17E-07
T	C	0.21	-0.1370929	0.03037646	9.06E-06
C	T	0.21	-0.1358683	0.03017023	9.46E-06
C	G	0.21	-0.1380452	0.03029948	7.51E-06
A	G	0.2	-0.1365047	0.03027763	9.25E-06

T	G	0.21	-0.1358683	0.03017023	9.46E-06
G	C	0.21	-0.1381065	0.03017511	6.85E-06
G	A	0.21	-0.1369633	0.03015619	7.99E-06
G	T	0.04	0.2893217	0.05852854	1.28E-06
T	C	0.49	0.2621032	0.05723827	6.78E-06
C	T	0.22	0.3313949	0.0662599	9.77E-07
G	A	0.14	-0.3372997	0.07343355	6.37E-06
C	CG	0.02	0.9521645	0.1729667	8.25E-08
T	G	0.02	0.9881099	0.2159217	6.87E-06
A	G	0.02	0.9307003	0.1657629	4.71E-08
G	A	0.03	0.8127126	0.1623117	9.51E-07
A	C	0.02	0.8545245	0.1756999	1.87E-06
A	C	0.02	0.8804403	0.1843047	2.78E-06
C	G	0.03	-0.7041927	0.155393	8.36E-06
G	A	0.45	0.2205641	0.0480242	6.38E-06
C	A	0.02	0.9759712	0.2122074	6.20E-06
G	A	0.38	0.255866	0.05543716	5.77E-06
G	A	0.39	0.2603925	0.05530347	3.80E-06
G	T	0.02	-0.8869624	0.1972003	9.70E-06
T	C	0.01	-1.019499	0.2261499	9.27E-06
T	C	0.05	0.5178443	0.1149165	9.35E-06
TAC	T	0.25	-0.2970969	0.06081361	1.69E-06
A	G	0.04	0.6273625	0.1393437	9.51E-06
CAGAG	C	0.02	-0.9754431	0.2162561	9.17E-06
C	A	0.01	1.148129	0.2481312	5.48E-06
G	A	0.02	1.019559	0.2211293	5.89E-06
C	A	0.08	0.440495	0.09616334	6.73E-06
C	G	0.15	0.3800429	0.07665603	1.20E-06
C	CG	0.02	0.5157864	0.08693879	8.89E-09
A	G	0.02	0.5000137	0.08338476	6.31E-09
C	CG	0.02	0.6436225	0.1039271	2.23E-09
A	G	0.02	0.6001099	0.09913772	4.77E-09
C	T	0.01	0.9222299	0.1478347	1.69E-09
T	G	0.01	0.9222299	0.1478347	1.69E-09
A	G	0.02	0.7892082	0.1205882	3.03E-10
C	CG	0.02	0.4773385	0.07837168	3.78E-09
A	G	0.02	0.4479966	0.07531751	8.16E-09
C	CTATG	0.09	0.3328525	0.05606498	9.63E-09
G	A	0.02	-0.6783837	0.1104965	3.11E-09
T	C	0.01	-0.804311	0.1261382	8.46E-10
T	G	0.01	-0.7965734	0.1224119	4.07E-10
G	T	0.01	-0.7965734	0.1224119	4.07E-10
GA	G	0.01	-0.7965734	0.1224119	4.07E-10
T	C	0.01	-0.7965734	0.1224119	4.07E-10
A	G	0.02	-0.7208584	0.1148989	1.49E-09
A	G	0.02	0.669355	0.1110783	5.70E-09
C	G	0.02	0.669355	0.1110783	5.70E-09
G	A	0.02	0.669355	0.1110783	5.70E-09
G	A	0.02	0.669355	0.1110783	5.70E-09
C	T	0.02	0.669355	0.1110783	5.70E-09

G	A	0.02	0.669355	0.1110783	5.70E-09
C	T	0.12	0.2621779	0.04423664	9.26E-09
C	A	0.01	-0.9092374	0.1465047	2.37E-09
A	C	0.01	-0.9092374	0.1465047	2.37E-09
G	A	0.01	-0.9092374	0.1465047	2.37E-09
C	A	0.01	-0.9716047	0.1606082	4.97E-09
TA	T	0.01	-0.6037541	0.0996424	4.51E-09
G	A	0.12	0.1966112	0.03109946	1.09E-09
C	T	0.12	0.1936322	0.03049411	9.34E-10
A	G	0.12	0.1996539	0.03086207	4.78E-10
T	A	0.01	0.7885975	0.1310522	5.61E-09
T	C	0.18	0.1714191	0.02788354	3.30E-09
G	C	0.02	0.5546302	0.09246587	6.26E-09
A	ATTGT	0.02	0.5546302	0.09246587	6.26E-09
C	T	0.02	0.5546302	0.09246587	6.26E-09
G	A	0.02	0.5546302	0.09246587	6.26E-09
G	A	0.12	0.2229416	0.03747257	8.14E-09
C	T	0.12	0.2184691	0.03685021	9.10E-09
A	G	0.12	0.2204763	0.03725256	9.61E-09
A	AAAT	0.03	0.3302878	0.06829907	2.12E-06
G	A	0.02	0.3519402	0.06963444	7.60E-07
T	G	0.02	0.3530021	0.07662082	5.98E-06
CAAAT	C	0.01	0.4569881	0.1006841	8.10E-06
C	T	0.05	0.230662	0.04756696	1.99E-06
C	T	0.01	0.4220578	0.09248012	7.25E-06
T	TACACACAC	0.03	0.2649226	0.05764585	6.30E-06
C	T	0.01	0.4221493	0.09188464	6.33E-06
A	G	0.01	0.4740076	0.1054256	9.77E-06
C	T	0.01	0.5460387	0.1035047	2.60E-07
T	TG	0.01	0.5095137	0.101239	8.42E-07
A	C	0.01	0.4532972	0.09444541	2.50E-06
A	AT	0.01	0.4742953	0.10482	8.61E-06
C	G	0.04	0.2948044	0.05700055	4.31E-07
A	G	0.04	0.2318049	0.04974421	4.72E-06
A	AGATG	0.04	0.26854	0.05804178	5.48E-06
A	G	0.05	0.2214244	0.04751576	4.72E-06
G	C	0.01	0.5532223	0.1023185	1.35E-07
C	G	0.01	0.5532223	0.1023185	1.35E-07
A	G	0.38	-0.0976226	0.02099268	4.93E-06
C	T	0.18	-0.1199257	0.02645976	8.33E-06
G	GTA	0.5	-0.0914112	0.02007802	7.61E-06
G	A	0.43	0.1018281	0.0211412	2.32E-06
A	T	0.43	0.09479758	0.02098784	8.92E-06
A	T	0.11	0.1575597	0.0347674	8.35E-06
C	T	0.03	0.3093477	0.06776499	7.21E-06
G	T	0.01	0.4846787	0.1070901	8.57E-06
T	C	0.03	0.2865919	0.06363035	9.43E-06
C	A	0.01	0.4571844	0.09829857	4.92E-06
C	A	0.49	0.09535274	0.02083124	6.83E-06
C	T	0.16	-0.1328913	0.02938446	8.70E-06

T	C	0.03	0.2874841	0.06217892	5.56E-06
T	C	0.01	0.4603578	0.09830548	4.26E-06
G	A	0.02	0.4431299	0.08257621	1.66E-07
T	C	0.01	0.4838517	0.1005394	2.36E-06
G	GTT	0.03	0.2799489	0.05821698	2.40E-06
T	C	0.15	0.1589541	0.03063401	3.97E-07
T	A	0.09	0.1704979	0.03783752	9.35E-06
G	A	0.09	0.1704979	0.03783752	9.35E-06
A	G	0.1	0.167856	0.03636001	5.74E-06
G	A	0.14	0.1712364	0.03038487	4.22E-08
ATGT	A	0.15	0.1418481	0.0295224	2.45E-06
A	G	0.15	0.1315189	0.02906804	8.62E-06
T	C	0.01	0.4648383	0.1031018	9.25E-06
C	T	0.03	0.2997251	0.0663644	8.94E-06
T	TCGG	0.02	0.4346922	0.08710897	1.03E-06
G	A	0.06	0.2084419	0.04148149	8.74E-07
C	T	0.06	0.2084419	0.04148149	8.74E-07
G	A	0.06	0.2084419	0.04148149	8.74E-07
G	T	0.06	0.211909	0.04221657	8.96E-07
G	A	0.02	0.382166	0.07756184	1.39E-06
G	C	0.02	0.3080619	0.06742756	7.09E-06
G	A	0.15	0.136105	0.02972291	6.78E-06
G	A	0.29	0.1096257	0.02348661	4.56E-06
C	A	0.05	0.2579074	0.04926274	3.16E-07
T	TACACACACAC	0.02	0.3818396	0.08209369	4.91E-06
C	T	0.01	0.4578255	0.09946922	6.10E-06
C	T	0.01	0.4719792	0.09167054	4.83E-07
G	C	0.01	0.4719792	0.09167054	4.83E-07
T	C	0.1	0.16224	0.03537893	6.58E-06
C	T	0.1	0.16224	0.03537893	6.58E-06
C	T	0.06	0.2047968	0.04451273	6.15E-06
T	C	0.04	0.2551733	0.05119664	1.06E-06
C	T	0.02	0.324235	0.06883371	3.76E-06
G	A	0.15	0.1355382	0.02924567	5.30E-06
G	A	0.15	0.1355382	0.02924567	5.30E-06
G	A	0.15	0.1355382	0.02924567	5.30E-06
C	CGTGTGTGT	0.02	0.3731699	0.07444982	9.27E-07
C	T	0.02	0.3059113	0.06804175	9.77E-06
C	T	0.3	-0.1078658	0.0236622	7.42E-06
C	A	0.28	-0.111193	0.02401028	5.38E-06
G	T	0.03	0.2740617	0.05987171	6.83E-06
G	A	0.03	0.2740617	0.05987171	6.83E-06
G	A	0.07	0.1919047	0.0424997	8.97E-06
AGG	A	0.07	0.1961946	0.0426762	6.25E-06
C	T	0.07	0.2062179	0.04185384	1.39E-06
G	GAAAGA	0.06	0.1999604	0.04338794	5.94E-06
G	A	0.07	0.2062179	0.04185384	1.39E-06
GC	G	0.07	0.2062179	0.04185384	1.39E-06
G	A	0.07	0.2012004	0.04170453	2.23E-06
G	C	0.04	0.2684918	0.058574	6.64E-06

A	G	0.12	0.1439282	0.03121884	5.90E-06
G	T	0.36	0.1110487	0.02251664	1.36E-06
TA	T	0.42	0.1011397	0.02138294	3.44E-06
T	C	0.35	0.1031978	0.0227823	8.43E-06
T	C	0.36	0.1027527	0.02280238	9.34E-06
A	C	0.35	0.1032533	0.02278334	8.35E-06
ATGTGTGTGTG	A	0.25	0.1190562	0.02526857	3.74E-06
C	T	0.01	0.4644635	0.1020887	7.72E-06
C	T	0.04	0.2486669	0.05188713	2.59E-06
G	A	0.02	0.31045	0.06801574	7.23E-06
G	A	0.02	0.4073558	0.07261735	4.83E-08
T	C	0.04	0.2646061	0.05732768	5.76E-06
T	G	0.04	0.2558198	0.05678959	9.41E-06
A	G	0.02	0.3886065	0.07157547	1.21E-07
A	G	0.02	0.3886065	0.07157547	1.21E-07
G	C	0.02	0.3560058	0.07737553	6.15E-06
C	T	0.02	0.3886065	0.07157547	1.21E-07
A	G	0.05	0.2343797	0.04744696	1.31E-06
C	T	0.02	0.4007507	0.07795041	5.01E-07
A	C	0.03	0.2603742	0.0551928	3.64E-06
A	G	0.04	0.253542	0.04975578	6.23E-07
C	T	0.04	0.2409797	0.05090256	3.38E-06
T	TAAGA	0.22	0.1153152	0.02487257	5.25E-06
G	A	0.06	0.2079648	0.04496497	5.52E-06
G	C	0.06	0.2079648	0.04496497	5.52E-06
T	G	0.06	0.2079648	0.04496497	5.52E-06
C	G	0.06	0.2079648	0.04496497	5.52E-06
G	T	0.06	0.2079648	0.04496497	5.52E-06
C	G	0.06	0.2027036	0.04477457	8.52E-06
G	A	0.06	0.2276657	0.04600356	1.25E-06
A	C	0.06	0.2027036	0.04477457	8.52E-06
G	GT	0.06	0.2027036	0.04477457	8.52E-06
G	C	0.06	0.2027036	0.04477457	8.52E-06
G	A	0.06	0.2027036	0.04477457	8.52E-06
AT	A	0.06	0.2027036	0.04477457	8.52E-06
T	G	0.06	0.2027036	0.04477457	8.52E-06
C	T	0.23	0.1161745	0.02528295	6.32E-06
C	T	0.01	0.4815424	0.1059254	7.84E-06
C	CT	0.06	0.2123515	0.04533483	4.24E-06
A	AATAGAT	0.03	0.2801171	0.06011518	4.73E-06
C	T	0.1	0.1683309	0.03546692	3.20E-06
C	G	0.02	0.3766125	0.07877486	2.73E-06
C	G	0.03	0.2842824	0.06006985	3.40E-06
G	C	0.03	0.2842824	0.06006985	3.40E-06
C	A	0.03	0.2657737	0.05901995	9.47E-06
C	T	0.03	0.2766203	0.05950233	4.96E-06
T	C	0.07	0.2032986	0.04252617	2.73E-06
G	C	0.06	0.2179096	0.04377915	1.09E-06
A	C	0.06	0.2179096	0.04377915	1.09E-06
G	C	0.06	0.2229974	0.04469807	1.04E-06

TACAC	T	0.18	0.1370055	0.02965562	5.65E-06
A	G	0.01	0.4893932	0.09608676	6.30E-07
CAT	C	0.01	0.4985816	0.1047532	3.01E-06
C	CCA	0.02	0.370603	0.07910188	4.22E-06
C	T	0.34	0.1000474	0.02201931	7.93E-06
C	G	0.34	0.1001073	0.02217402	9.01E-06
C	T	0.01	0.4781649	0.1044331	6.79E-06
C	T	0.01	0.4781649	0.1044331	6.79E-06
T	TTGGTGGTGG	0.01	0.4880736	0.09064554	1.51E-07
G	A	0.01	0.440565	0.09770774	9.23E-06
A	G	0.06	0.2158338	0.04655877	5.27E-06
C	T	0.23	0.1130495	0.02486387	7.82E-06
C	CA	0.22	0.1160919	0.02535347	6.78E-06
G	A	0.01	0.4340476	0.09577838	8.35E-06
C	T	0.02	0.3365947	0.07402838	7.82E-06
C	T	0.02	0.3682647	0.07605104	2.06E-06
G	A	0.02	0.3536366	0.07509336	3.78E-06
G	C	0.01	0.4771005	0.1049764	7.89E-06
G	C	0.01	0.4582129	0.1016328	9.25E-06
C	T	0.01	0.4821804	0.1050085	6.40E-06
C	CGTGTGT	0.01	0.6917821	0.1144244	4.86E-09
GGTGTGTGTGTGT	G	0.01	-0.9776918	0.1615395	4.69E-09
T	C	0.02	-0.654586	0.1090505	6.63E-09
A	T	0.02	0.4849372	0.1012532	2.63E-06
C	T	0.16	0.1715167	0.03523054	1.82E-06
G	A	0.16	0.1663281	0.03496996	3.05E-06
G	A	0.3	-0.1398056	0.0285819	1.64E-06
A	G	0.31	-0.1331101	0.02830607	3.90E-06
C	A	0.3	-0.1358943	0.02844541	2.77E-06
G	A	0.3	-0.1311837	0.02844238	5.85E-06
G	A	0.02	-0.4853026	0.0948964	5.70E-07
C	T	0.37	-0.1262573	0.02755589	6.69E-06
T	TTGTG	0.3	-0.1212877	0.02631178	5.92E-06
C	T	0.09	-0.2097641	0.04647934	9.07E-06
CT	C	0.16	0.1783088	0.03635452	1.54E-06
T	C	0.06	-0.259768	0.05213268	1.07E-06
C	T	0.36	0.1132647	0.02458411	5.98E-06
TAC	T	0.09	-0.2234695	0.04552831	1.51E-06
T	A	0.22	0.1399103	0.03090666	8.53E-06
T	G	0.22	0.1458717	0.03113429	4.22E-06
G	A	0.02	-0.4093266	0.08982409	7.47E-06
G	A	0.1	-0.205287	0.04361799	3.83E-06
C	T	0.15	-0.1665167	0.03603712	5.63E-06
A	G	0.16	-0.1660892	0.03543197	4.17E-06
A	G	0.18	0.146879	0.03266992	9.78E-06
T	TA	0.46	-0.1186863	0.02616818	8.22E-06
G	A	0.46	-0.1210713	0.02618555	5.56E-06
T	C	0.3	-0.1296379	0.02692253	2.33E-06
A	G	0.28	-0.2725593	0.05775338	3.61E-06
C	G	0.28	-0.2716059	0.05736463	3.37E-06

T	TAC	0.38	0.2733186	0.05886465	5.10E-06
C	T	0.01	-1.058606	0.2232237	3.26E-06
G	A	0.01	-1.058606	0.2232237	3.26E-06
G	T	0.01	-1.058606	0.2232237	3.26E-06
C	G	0.01	-1.058606	0.2232237	3.26E-06
ATATGTG	A	0.05	-0.5840233	0.124434	4.06E-06
A	G	0.01	1.046557	0.2267126	5.75E-06
T	A	0.01	1.058692	0.2310359	6.68E-06
T	A	0.01	1.06016	0.2310029	6.48E-06
C	T	0.01	1.046557	0.2267126	5.75E-06
C	T	0.01	1.080124	0.230945	4.38E-06
C	A	0.01	1.046557	0.2267126	5.75E-06
G	T	0.01	1.046557	0.2267126	5.75E-06
CT	C	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
A	T	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
T	C	0.01	1.046557	0.2267126	5.75E-06
A	AT	0.02	1.058602	0.2206144	2.52E-06
C	A	0.01	1.046557	0.2267126	5.75E-06
A	G	0.01	1.046557	0.2267126	5.75E-06
T	C	0.01	1.046557	0.2267126	5.75E-06
A	G	0.01	1.046557	0.2267126	5.75E-06
C	A	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
G	T	0.01	1.046557	0.2267126	5.75E-06
A	G	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
T	C	0.01	1.046557	0.2267126	5.75E-06
T	C	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
C	T	0.01	1.046557	0.2267126	5.75E-06
A	G	0.01	1.046557	0.2267126	5.75E-06
G	A	0.01	1.046557	0.2267126	5.75E-06
A	T	0.01	1.046557	0.2267126	5.75E-06
A	AG	0.02	0.9521656	0.2080183	6.83E-06
T	TTCC	0.18	0.3487526	0.07404266	3.77E-06
G	A	0.02	-0.9049527	0.1877907	2.29E-06
G	GA	0.04	-0.6464971	0.1255877	4.85E-07
G	A	0.04	-0.6546561	0.1265654	4.30E-07
T	TACACAC	0.01	-1.131788	0.2449665	5.65E-06
A	G	0.49	-0.2352788	0.05157869	7.33E-06
C	T	0.49	-0.2362193	0.05160926	6.84E-06
G	A	0.48	-0.2336461	0.05200265	9.91E-06
A	G	0.48	-0.2335018	0.0518652	9.52E-06
G	A	0.48	-0.2354664	0.0519285	8.26E-06
ATGTGTGTGTGTGTG	A	0.08	-0.4717917	0.1004212	3.98E-06
A	G	0.44	0.262935	0.05221295	8.30E-07
C	A	0.1	-0.4057193	0.08722578	4.91E-06

G	A	0.1	-0.4057193	0.08722578	4.91E-06
C	T	0.17	0.3075941	0.06785171	8.30E-06
T	C	0.17	0.3079135	0.06830384	9.28E-06
T	C	0.01	-1.092463	0.2259764	2.13E-06
A	G	0.01	-1.241667	0.2628619	3.54E-06
T	C	0.1	-0.3956023	0.08154404	1.97E-06
A	G	0.29	-0.2732285	0.06007922	7.79E-06
C	A	0.12	0.3659255	0.08054708	7.95E-06
T	C	0.33	-0.237918	0.0524324	8.14E-06
C	A	0.32	-0.2432334	0.05282645	6.06E-06
G	T	0.33	-0.247952	0.0525096	3.57E-06
G	C	0.32	-0.2550039	0.05264192	2.04E-06
G	GT	0.07	-0.4487163	0.09769295	6.37E-06
C	G	0.1	-0.3958747	0.08608328	6.21E-06
G	C	0.35	-0.2618071	0.05749918	7.60E-06
G	T	0.02	-0.8790657	0.1727297	6.43E-07
G	A	0.37	-0.2406217	0.05146811	4.41E-06
C	G	0.36	-0.2301916	0.05123235	9.90E-06
C	T	0.02	-0.7902176	0.173307	7.39E-06
A	G	0.36	0.2469743	0.0544002	8.06E-06
T	G	0.06	-0.5247606	0.1141862	6.30E-06
C	T	0.02	-0.8697467	0.192861	9.21E-06
C	G	0.02	0.9149127	0.202347	8.74E-06
C	T	0.02	0.9149127	0.202347	8.74E-06
C	CT	0.02	0.9149127	0.202347	8.74E-06
C	T	0.49	0.2338393	0.05195392	9.57E-06
G	A	0.46	-0.2430937	0.05006993	1.94E-06
T	C	0.49	-0.2363049	0.0521718	8.45E-06
C	T	0.45	-0.2338955	0.05151534	8.05E-06
T	C	0.49	-0.234892	0.05211203	9.30E-06
G	C	0.44	-0.2342947	0.05175092	8.52E-06
C	CTCTCTCTCTCTG	0.04	-0.5946166	0.1275021	4.65E-06
G	C	0.2	-0.3211599	0.06614055	1.93E-06
A	G	0.08	0.5018418	0.1007071	1.07E-06
T	TAC	0.01	-1.085287	0.2409036	9.40E-06
G	T	0.04	-0.6763222	0.1416112	2.79E-06
G	A	0.03	-0.749029	0.1510254	1.19E-06
C	T	0.04	-0.7147795	0.1457913	1.55E-06
C	T	0.02	-0.8195467	0.1747452	4.13E-06
G	C	0.02	-0.7708468	0.1708296	9.10E-06
C	T	0.03	-0.6871179	0.1484847	5.47E-06
A	G	0.2	-0.3043105	0.06487807	4.12E-06
A	C	0.21	-0.2930122	0.06387974	6.55E-06
C	T	0.2	-0.2949168	0.06503763	8.25E-06
G	A	0.03	-0.6585449	0.1429489	5.99E-06
C	T	0.01	1.10578	0.2381515	5.10E-06
C	G	0.35	-0.2519902	0.05491631	6.50E-06
GGAAT	G	0.41	-0.2461366	0.05388163	7.12E-06
G	A	0.41	-0.2430807	0.05393915	9.33E-06
T	C	0.33	-0.2507774	0.05461395	6.41E-06

TAA	T	0.31	-0.277161	0.05647718	1.52E-06
C	T	0.03	-0.6981937	0.1447574	2.25E-06
G	T	0.13	-0.3490103	0.07690762	8.13E-06
C	A	0.13	-0.3490103	0.07690762	8.13E-06
C	T	0.13	-0.3490103	0.07690762	8.13E-06
T	C	0.13	-0.3490103	0.07690762	8.13E-06
C	T	0.13	-0.3490103	0.07690762	8.13E-06
T	C	0.13	-0.3490103	0.07690762	8.13E-06
G	A	0.13	-0.3623438	0.07695061	3.79E-06
C	T	0.13	-0.3490103	0.07690762	8.13E-06
G	C	0.13	-0.3490103	0.07690762	8.13E-06
G	A	0.13	-0.3490103	0.07690762	8.13E-06
G	T	0.13	-0.3540543	0.07749936	7.11E-06
A	AC	0.38	0.2685361	0.056771	3.44E-06
G	A	0.07	-0.4614041	0.1001085	5.94E-06
G	C	0.06	-0.491547	0.1082581	8.04E-06
T	C	0.06	-0.5575772	0.1101951	7.40E-07
G	C	0.13	0.3674693	0.07787509	3.63E-06
C	T	0.13	0.3674693	0.07787509	3.63E-06
C	T	0.05	-0.5883019	0.1197774	1.49E-06
A	G	0.02	-0.874765	0.1889029	5.39E-06
T	C	0.02	-0.874765	0.1889029	5.39E-06
CCT	C	0.06	0.5939375	0.1169396	6.75E-07
A	C	0.19	0.3121063	0.06752748	5.60E-06
C	G	0.26	0.2709542	0.05850069	5.37E-06
G	T	0.26	0.2818816	0.05899782	2.77E-06
G	T	0.26	0.2748546	0.05906569	4.87E-06
T	A	0.26	0.2803176	0.05883956	2.95E-06
CT	C	0.26	0.2723042	0.05909214	5.96E-06
G	A	0.25	0.2739135	0.05908355	5.26E-06
T	C	0.26	0.2655101	0.05788416	6.55E-06
T	C	0.26	0.2692512	0.05831432	5.72E-06
C	G	0.26	0.2721081	0.05826847	4.52E-06
AAAATAAAT	A	0.03	-0.7710501	0.1623976	3.17E-06
G	A	0.48	-0.240819	0.05184734	5.06E-06
C	T	0.02	-0.9617981	0.2097338	6.58E-06
G	A	0.02	-0.786497	0.167684	4.12E-06
C	T	0.02	-0.786497	0.167684	4.12E-06
G	A	0.02	0.8281343	0.1750587	3.43E-06
A	C	0.32	-0.276387	0.05830526	3.29E-06
G	A	0.49	0.2422476	0.05205724	4.87E-06
A	T	0.49	0.2415374	0.05218774	5.45E-06
C	T	0.29	0.2833926	0.05804826	1.71E-06
G	C	0.29	0.2833926	0.05804826	1.71E-06
T	C	0.49	0.2419659	0.05211265	5.10E-06
G	A	0.2	0.3156903	0.06465915	1.71E-06
C	T	0.49	-0.2441441	0.05205505	4.13E-06
C	T	0.49	-0.245952	0.05184935	3.24E-06
A	C	0.45	0.2680912	0.05241646	5.69E-07
G	A	0.45	0.2671024	0.05243162	6.28E-07

T	C	0.45	0.2591223	0.05244544	1.30E-06
T	C	0.46	0.2593015	0.05220274	1.15E-06
C	A	0.29	-0.2674863	0.0591389	8.68E-06
G	A	0.33	-0.2636919	0.05641895	4.44E-06
T	C	0.3	-0.2695073	0.05843814	5.86E-06
A	G	0.33	-0.2651371	0.05644918	4.00E-06
A	C	0.3	-0.2695073	0.05843814	5.86E-06
A	T	0.33	-0.2588463	0.05659204	6.94E-06
A	G	0.3	-0.2695073	0.05843814	5.86E-06
A	T	0.3	-0.2695073	0.05843814	5.86E-06
A	G	0.34	-0.273836	0.05672432	2.20E-06
T	C	0.34	-0.2660167	0.05660783	3.96E-06
AAATAAATAAATAA	A	0.28	-0.2705958	0.05999947	9.20E-06
G	A	0.02	1.007221	0.218886	6.14E-06
C	T	0.02	-0.9548706	0.2011147	3.17E-06
C	T	0.06	-0.4973578	0.1106367	9.80E-06
C	T	0.04	0.5896561	0.1283964	6.39E-06
G	A	0.03	-0.760252	0.14467	2.87E-07
C	T	0.25	0.2673795	0.05805851	6.03E-06
G	A	0.25	0.2673795	0.05805851	6.03E-06
T	C	0.25	0.2636364	0.05783699	7.43E-06
T	GAGAGATAGATAGAT	0.03	-0.8506357	0.164927	4.62E-07
T	TCCTC	0.03	0.3188115	0.05186217	2.77E-09
C	T	0.01	0.6073789	0.09271497	2.89E-10
G	A	0.01	0.6073789	0.09271497	2.89E-10
CTT	C	0.01	0.6073789	0.09271497	2.89E-10
A	G	0.01	0.5762469	0.09693025	8.86E-09
A	ATT	0.04	0.3315046	0.05549461	7.20E-09
G	A	0.01	0.8104612	0.1240571	3.22E-10
C	T	0.01	0.8163798	0.1264285	4.94E-10
T	G	0.01	0.8163798	0.1264285	4.94E-10
T	TC	0.01	0.686564	0.1093142	1.33E-09
A	G	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
A	T	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
C	T	0.01	0.686564	0.1093142	1.33E-09
C	T	0.01	0.686564	0.1093142	1.33E-09
T	C	0.01	0.686564	0.1093142	1.33E-09
C	G	0.01	0.686564	0.1093142	1.33E-09
G	C	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
T	C	0.01	0.686564	0.1093142	1.33E-09
AC	A	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
A	G	0.01	0.686564	0.1093142	1.33E-09
C	T	0.01	0.686564	0.1093142	1.33E-09
C	T	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09

G	A	0.01	0.686564	0.1093142	1.33E-09
G	T	0.01	0.686564	0.1093142	1.33E-09
G	A	0.01	0.686564	0.1093142	1.33E-09
A	G	0.01	0.686564	0.1093142	1.33E-09
T	C	0.02	0.6421128	0.1070268	6.20E-09
A	G	0.02	0.6421128	0.1070268	6.20E-09
T	C	0.02	0.6421128	0.1070268	6.20E-09
C	G	0.02	0.6421128	0.1070268	6.20E-09
C	T	0.02	0.6421128	0.1070268	6.20E-09
AG	A	0.02	0.6421128	0.1070268	6.20E-09
T	A	0.02	0.6421128	0.1070268	6.20E-09
A	G	0.02	0.6421128	0.1070268	6.20E-09
A	G	0.02	0.6725643	0.1011922	1.68E-10
A	AT	0.02	0.6421128	0.1070268	6.20E-09
C	T	0.01	0.5065184	0.08125616	1.73E-09
A	C	0.01	0.5065184	0.08125616	1.73E-09
GCA	G	0.03	0.2696901	0.04557407	9.60E-09
TTG	T	0.02	-0.561044	0.09237021	4.17E-09
C	CTGTG	0.06	-0.3064528	0.05061548	4.73E-09
A	AT	0.02	1.057267	0.1767034	8.30E-09
T	C	0.02	0.3205322	0.05352202	6.71E-09
T	G	0.02	-0.6707995	0.1118426	6.44E-09
T	C	0.02	-0.6707995	0.1118426	6.44E-09
G	A	0.02	0.7986745	0.1345261	8.65E-09
CG	C	0.02	0.7986745	0.1345261	8.65E-09
T	C	0.02	0.7986745	0.1345261	8.65E-09
G	A	0.02	0.7986745	0.1345261	8.65E-09
G	A	0.02	0.7986745	0.1345261	8.65E-09
A	G	0.02	0.5345771	0.08587059	1.85E-09
C	A	0.04	0.6777917	0.146621	5.59E-06
TTC	T	0.01	-1.148109	0.2402408	2.76E-06
G	T	0.01	-1.132419	0.2440714	5.19E-06
G	A	0.15	-0.3633135	0.07903361	6.28E-06
A	G	0.15	-0.3592303	0.0785234	6.92E-06
A	T	0.14	-0.3600728	0.07983228	9.20E-06
T	C	0.15	-0.3559261	0.0791803	9.83E-06
T	TA	0.11	-0.4170234	0.08794956	3.27E-06
C	T	0.09	-0.4144075	0.09211086	9.67E-06
C	T	0.09	-0.4179124	0.09286201	9.61E-06
T	C	0.03	0.6567643	0.1414629	5.12E-06
AT	A	0.02	-0.8445831	0.1817961	5.05E-06
C	T	0.02	-0.9130395	0.1980386	5.91E-06
A	G	0.03	-0.7242248	0.1570051	5.85E-06
A	T	0.32	-0.2785271	0.06113859	7.54E-06
A	G	0.01	-1.20717	0.2376614	6.76E-07
C	T	0.02	-1.082724	0.2195562	1.36E-06
C	CT	0.39	-0.2309839	0.04946571	4.54E-06
C	A	0.08	-0.4665529	0.09515131	1.55E-06
A	C	0.08	-0.4904739	0.09963448	1.42E-06
A	G	0.08	-0.4521685	0.09929183	7.59E-06

G	T	0.08	-0.4960972	0.09944182	1.04E-06
C	T	0.08	-0.4914136	0.09786282	8.91E-07
A	G	0.08	-0.4984719	0.1013955	1.46E-06
G	A	0.08	-0.4835946	0.09934261	1.83E-06
T	C	0.08	-0.4747654	0.09801264	2.05E-06
A	G	0.07	-0.4845056	0.1069305	8.40E-06
T	C	0.07	-0.4781881	0.1032116	5.34E-06
ATAGATAGATAGATA	T	0.04	-0.6444373	0.1371271	3.96E-06
G	T	0.02	-0.8962602	0.1793824	1.00E-06
A	G	0.02	-0.8761953	0.1795398	1.73E-06
G	T	0.02	-0.7926185	0.1752083	8.67E-06
G	A	0.06	-0.5134031	0.1134902	8.67E-06
A	G	0.01	-1.108327	0.2353381	3.79E-06
G	A	0.33	-0.2613378	0.05601627	4.62E-06
G	A	0.3	0.2532399	0.05588289	8.38E-06
G	A	0.31	0.2601466	0.05548182	4.16E-06
T	G	0.41	0.247075	0.05262624	4.05E-06
G	A	0.31	0.2530174	0.05582672	8.36E-06
G	T	0.31	0.2563531	0.0557948	6.34E-06
G	A	0.13	-0.3764278	0.08191399	6.32E-06
C	A	0.02	0.9457914	0.1987367	3.02E-06
C	T	0.02	1.034464	0.2204704	4.10E-06
G	A	0.13	-0.3509587	0.07756859	8.64E-06
A	G	0.13	-0.3648859	0.07739169	3.70E-06
G	A	0.29	0.2585667	0.05694974	8.06E-06
T	C	0.05	0.5834539	0.1221829	2.81E-06
T	A	0.05	-0.587724	0.1227017	2.63E-06
A	AGTGT	0.12	-0.4128763	0.08517686	2.02E-06
G	A	0.31	-0.2584194	0.05709103	8.57E-06
A	G	0.31	-0.2571428	0.05725246	9.99E-06
CA	C	0.09	-0.4115015	0.09087688	8.51E-06
G	GT	0.04	-0.6527106	0.1296923	8.45E-07
T	A	0.04	-0.6519805	0.1291993	7.92E-07
G	C	0.04	-0.6519805	0.1291993	7.92E-07
C	T	0.04	-0.6519805	0.1291993	7.92E-07
G	C	0.04	-0.6519805	0.1291993	7.92E-07
T	C	0.04	-0.6519805	0.1291993	7.92E-07
G	T	0.04	-0.6519805	0.1291993	7.92E-07
G	A	0.03	-0.755987	0.1675578	9.14E-06
G	T	0.13	0.3683495	0.08031578	6.58E-06
C	T	0.01	-1.143068	0.250097	7.06E-06
C	G	0.02	-0.9169138	0.1970184	4.87E-06
T	C	0.19	-0.3034074	0.06754242	9.96E-06
AT	A	0.02	-0.7847841	0.1713462	6.76E-06
G	T	0.01	-1.229016	0.2270022	1.31E-07
G	A	0.15	-0.3506523	0.07648769	6.63E-06
G	A	0.16	-0.3482025	0.07539158	5.70E-06
G	A	0.16	-0.3482025	0.07539158	5.70E-06
A	C	0.16	-0.3482025	0.07539158	5.70E-06
A	G	0.16	-0.3481084	0.07551439	5.93E-06

G	T	0.25	0.2798998	0.06134772	7.31E-06
T	A	0.25	0.2844202	0.06114566	4.92E-06
G	A	0.08	0.4849216	0.1000387	2.02E-06
G	C	0.07	0.4969323	0.1063472	4.47E-06
C	G	0.02	-0.9478081	0.203681	4.88E-06
G	GTA	0.04	-0.6137855	0.1359062	8.96E-06
AGT	A	0.05	-0.5722537	0.1245409	6.33E-06
G	A	0.05	-0.558194	0.1200779	4.98E-06
G	A	0.05	-0.558194	0.1200779	4.98E-06
C	G	0.05	-0.558194	0.1200779	4.98E-06
GA	G	0.05	-0.558194	0.1200779	4.98E-06
G	A	0.05	-0.6156707	0.1189529	4.25E-07
C	A	0.05	-0.6156707	0.1189529	4.25E-07
T	G	0.06	-0.5890295	0.1176797	9.62E-07
A	G	0.06	-0.6377649	0.1159592	8.50E-08
G	A	0.06	-0.6377649	0.1159592	8.50E-08
A	G	0.06	-0.6377649	0.1159592	8.50E-08
A	G	0.06	-0.6377649	0.1159592	8.50E-08
C	T	0.06	-0.5998516	0.1183121	7.07E-07
T	C	0.06	-0.6392124	0.1162587	8.58E-08
T	A	0.06	-0.5482843	0.1186975	5.68E-06
T	C	0.22	-0.2966513	0.06575373	9.15E-06
G	A	0.22	-0.3018816	0.06525236	5.50E-06
G	A	0.05	-0.537449	0.09005378	7.38E-09
C	A	0.05	-0.537449	0.09005378	7.38E-09
A	G	0.06	-0.5384324	0.08783049	3.06E-09
G	A	0.06	-0.5384324	0.08783049	3.06E-09
A	G	0.06	-0.5384324	0.08783049	3.06E-09
A	G	0.06	-0.5384324	0.08783049	3.06E-09
T	C	0.06	-0.5368681	0.08802445	3.63E-09
G	T	0.01	-0.7956129	0.1234832	5.82E-10
G	T	0.01	-0.7807459	0.1306033	7.06E-09
AACAC	A	0.01	-0.9928929	0.1648337	6.34E-09
G	T	0.26	0.2038561	0.03284427	2.27E-09
G	T	0.26	0.1969698	0.03292907	7.61E-09
T	A	0.26	0.2071392	0.0327021	1.13E-09
CT	C	0.26	0.2027598	0.03287055	2.80E-09
G	A	0.25	0.1954804	0.03294856	9.86E-09
T	C	0.26	0.1928747	0.0321881	7.20E-09
T	C	0.26	0.1948244	0.03245327	6.79E-09
C	G	0.26	0.2008807	0.03237389	2.29E-09
A	G	0.26	0.1955154	0.03266482	7.46E-09
G	A	0.01	1.148291	0.1913982	6.49E-09
A	G	0.01	-0.9141467	0.1466894	1.75E-09
TCA	T	0.01	0.5371172	0.1191503	9.28E-06
TAC	T	0.03	0.3651216	0.07386257	1.28E-06
A	T	0.01	0.5193102	0.1129572	6.25E-06
C	T	0.19	0.140294	0.03043151	5.90E-06
GC	G	0.19	0.1408392	0.02975155	3.38E-06
C	T	0.19	0.1365215	0.03025118	9.07E-06

G	A	0.19	0.140563	0.0303826	5.49E-06
A	G	0.19	0.1369387	0.03025921	8.58E-06
T	C	0.19	0.1415112	0.03071421	5.98E-06
C	T	0.19	0.1414819	0.03076954	6.23E-06
G	T	0.19	0.1415112	0.03071421	5.98E-06
T	C	0.18	0.1419117	0.03130968	8.32E-06
C	G	0.17	0.1445318	0.03163516	7.10E-06
C	T	0.17	0.1410708	0.03135602	9.64E-06
A	G	0.17	0.1449168	0.03145752	5.99E-06
C	T	0.17	0.1458286	0.03145712	5.26E-06
A	T	0.18	0.1455758	0.03122203	4.67E-06
A	C	0.17	0.1459036	0.03168997	6.06E-06
A	C	0.18	0.1455758	0.03122203	4.67E-06
G	T	0.18	0.1455758	0.03122203	4.67E-06
C	G	0.18	0.1455758	0.03122203	4.67E-06
A	G	0.18	0.1455758	0.03122203	4.67E-06
A	C	0.18	0.1462139	0.03117548	4.13E-06
G	A	0.26	-0.1311614	0.02673105	1.52E-06
A	C	0.05	0.2805552	0.05753134	1.75E-06
C	T	0.05	0.2805552	0.05753134	1.75E-06
TG	T	0.02	0.4571515	0.08911382	5.28E-07
T	TACAC	0.28	0.1334491	0.02903932	6.30E-06
C	G	0.22	0.1379593	0.02857355	2.20E-06
C	T	0.27	0.1299517	0.02820466	5.97E-06
G	A	0.01	0.5057518	0.1101095	6.37E-06
C	G	0.39	0.1138438	0.02525885	9.31E-06
T	C	0.19	-0.1414709	0.03125841	8.57E-06
A	G	0.19	-0.1414709	0.03125841	8.57E-06
T	C	0.19	-0.1414709	0.03125841	8.57E-06
T	C	0.27	-0.1259886	0.02719715	5.34E-06
GAGA	G	0.08	-0.2052787	0.04539042	8.70E-06
A	T	0.2	-0.1490591	0.030969	2.35E-06
A	G	0.2	-0.1416359	0.03082151	6.30E-06
C	G	0.39	0.1139164	0.02521211	8.86E-06
G	T	0.15	0.1746601	0.03813791	6.76E-06
G	A	0.05	0.2714805	0.05967572	7.73E-06
C	G	0.05	-0.2638442	0.05813372	8.11E-06
A	C	0.46	0.1188913	0.0245131	1.98E-06
C	A	0.04	-0.2913925	0.06431288	8.39E-06
C	A	0.12	0.1796957	0.0397062	8.58E-06
G	A	0.27	-0.1329093	0.02931768	8.29E-06
T	C	0.05	-0.2790496	0.05816698	2.53E-06
TA	T	0.1	-0.1923641	0.04081426	3.72E-06
A	G	0.03	-0.3574507	0.07809391	6.83E-06
C	T	0.25	0.1395623	0.03020254	5.63E-06
C	G	0.18	-0.1481318	0.03225741	6.39E-06
A	T	0.02	-0.3974842	0.08819852	9.32E-06
A	G	0.01	-0.5551693	0.1212269	6.76E-06
A	T	0.48	-0.1171422	0.02550229	6.36E-06
A	C	0.48	-0.1154346	0.02547459	8.37E-06

G	A	0.43	-0.1228358	0.02593887	3.36E-06
C	T	0.42	-0.1188992	0.0262653	8.53E-06
A	G	0.42	-0.1218526	0.02619451	4.90E-06
G	A	0.11	0.1862957	0.04099249	7.89E-06
GGTGTGTGTGT	G	0.06	-0.2657047	0.05758669	5.80E-06
G	A	0.06	-0.2660691	0.0559462	3.06E-06
G	A	0.06	-0.261519	0.05537234	3.55E-06
G	A	0.47	-0.1168373	0.02588026	9.01E-06
C	T	0.46	-0.1186376	0.02628117	9.02E-06
G	A	0.46	-0.1204736	0.02629333	6.69E-06
A	G	0.02	-0.4364946	0.09114002	2.63E-06
G	A	0.1	-0.1941274	0.04276924	8.09E-06
T	A	0.03	-0.3825544	0.0779682	1.53E-06
G	T	0.03	-0.3825544	0.0779682	1.53E-06
C	T	0.03	-0.3825544	0.0779682	1.53E-06
G	A	0.03	-0.3357255	0.07275621	5.79E-06
C	CA	0.04	-0.2920295	0.06178664	3.50E-06
C	G	0.23	0.1403261	0.03078663	7.44E-06
A	G	0.23	0.1429942	0.03078364	5.05E-06
G	A	0.04	0.2959488	0.06561344	9.17E-06
TA	T	0.31	-0.1242237	0.02690704	5.73E-06
A	C	0.07	-0.2362486	0.052364	9.12E-06
T	G	0.34	-0.1304878	0.02881137	8.45E-06
T	C	0.06	-0.2349287	0.05154777	7.46E-06
A	T	0.09	-0.2141979	0.04574538	4.27E-06
C	T	0.05	0.2600905	0.05640447	5.88E-06
G	A	0.12	-0.2006444	0.04170921	2.38E-06
T	C	0.01	1.001802	0.1660753	5.82E-09
G	A	0.01	-0.7323914	0.1162922	1.31E-09
T	G	0.01	-0.677509	0.1052203	5.99E-10
G	T	0.01	-0.677509	0.1052203	5.99E-10
GA	G	0.01	-0.677509	0.1052203	5.99E-10
T	C	0.01	-0.677509	0.1052203	5.99E-10
A	G	0.02	-0.614648	0.09876604	1.98E-09
G	T	0.1	-0.3991874	0.0673952	9.70E-09
C	G	0.03	-0.3651922	0.06141911	8.28E-09
C	T	0.12	-0.249799	0.04220167	9.52E-09
G	GGA	0.01	-0.9676851	0.1595394	4.55E-09
T	C	0.02	0.6083534	0.09975483	3.80E-09
C	G	0.03	0.5503774	0.08697649	1.08E-09
T	A	0.01	0.9390119	0.1578253	8.08E-09
A	G	0.02	0.4775092	0.07898419	4.92E-09
A	C	0.01	-0.9107687	0.1419891	6.38E-10
A	G	0.01	-0.9107687	0.1419891	6.38E-10
C	A	0.01	-0.9107687	0.1419891	6.38E-10
T	C	0.5	-0.1087322	0.01834535	9.25E-09
C	T	0.01	-1.129527	0.2387917	3.63E-06
T	C	0.01	-1.129527	0.2387917	3.63E-06
G	T	0.05	0.5617909	0.1228851	7.33E-06
C	G	0.05	0.5618479	0.1200788	4.56E-06

C	T	0.05	0.5618479	0.1200788	4.56E-06
T	C	0.05	0.5618479	0.1200788	4.56E-06
C	T	0.02	-0.8554883	0.1853819	6.07E-06
T	TA	0.02	0.829723	0.1826543	8.33E-06
G	GA	0.05	-0.581613	0.1248205	4.97E-06
G	A	0.04	-0.694707	0.1526028	7.98E-06
A	G	0.16	0.3446043	0.07642228	9.63E-06
C	T	0.16	0.3446043	0.07642228	9.63E-06
ATC	A	0.17	-0.3718152	0.07788806	2.98E-06
T	C	0.46	-0.2593017	0.05702502	8.16E-06
C	T	0.47	-0.2575912	0.05689061	8.88E-06
A	ATAAG	0.02	-1.007491	0.2135143	3.82E-06
A	T	0.36	-0.271893	0.05997719	8.67E-06
C	G	0.36	-0.271893	0.05997719	8.67E-06
C	G	0.36	-0.2800331	0.06002244	4.84E-06
G	A	0.36	-0.2763631	0.06004051	6.39E-06
G	A	0.36	-0.2805135	0.06007632	4.76E-06
G	A	0.32	-0.273004	0.06053454	9.60E-06
C	T	0.02	-0.9106645	0.197724	6.31E-06
CCA	C	0.11	-0.4321334	0.09459694	7.45E-06
C	T	0.01	-1.207752	0.2594797	5.09E-06
C	T	0.01	-1.241731	0.2444377	7.21E-07
A	C	0.01	-1.241731	0.2444377	7.21E-07
G	A	0.01	-1.241731	0.2444377	7.21E-07
G	T	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
T	G	0.01	-1.241731	0.2444377	7.21E-07
G	C	0.01	-1.241731	0.2444377	7.21E-07
CG	C	0.01	-1.241731	0.2444377	7.21E-07
T	C	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
GT	G	0.01	-1.241731	0.2444377	7.21E-07
G	A	0.01	-1.241731	0.2444377	7.21E-07
T	C	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
T	C	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
A	T	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
A	C	0.02	-1.089025	0.2384832	7.50E-06
A	C	0.01	-1.241731	0.2444377	7.21E-07
C	A	0.01	-1.241731	0.2444377	7.21E-07
C	T	0.01	-1.241731	0.2444377	7.21E-07
TTG	T	0.11	-0.4548781	0.09346789	1.95E-06
A	G	0.01	-1.126742	0.2499496	9.69E-06
G	C	0.07	0.496572	0.1057958	4.27E-06
C	T	0.33	-0.273107	0.0596216	7.05E-06
T	TGA	0.13	0.4114569	0.08845614	5.15E-06
AG	A	0.03	-0.7956448	0.1748406	8.04E-06

A	ATTCC	0.08	-0.4808979	0.1036654	5.45E-06
C	G	0.49	-0.2620722	0.05780677	8.66E-06
G	A	0.01	-1.223809	0.2522252	2.08E-06
T	C	0.03	-0.8346654	0.1757081	3.31E-06
C	T	0.03	-0.8346654	0.1757081	3.31E-06
TTGTGTGTG	T	0.03	-0.7139159	0.1561088	7.28E-06
G	A	0.07	-0.5154946	0.1112585	5.59E-06
C	T	0.3	0.3159353	0.0610101	4.51E-07
C	G	0.48	-0.2822616	0.05543945	6.83E-07
G	A	0.02	-0.9401881	0.2082484	9.40E-06
C	T	0.12	-0.4106494	0.08554787	2.64E-06
C	T	0.18	-0.3261708	0.07093975	6.53E-06
G	A	0.19	-0.321836	0.07041486	7.37E-06
C	T	0.19	-0.321836	0.07041486	7.37E-06
C	T	0.19	-0.3226949	0.07045202	7.06E-06
G	T	0.14	-0.3800002	0.0793631	2.79E-06
G	A	0.18	-0.331262	0.07160751	5.77E-06
CCTCTT	C	0.18	-0.3239744	0.07112925	7.90E-06
T	G	0.19	-0.3250918	0.07103952	7.19E-06
A	T	0.19	-0.3250918	0.07103952	7.19E-06
G	A	0.18	-0.3213538	0.07111907	9.25E-06
A	G	0.19	-0.3250918	0.07103952	7.19E-06
G	A	0.19	-0.3250918	0.07103952	7.19E-06
C	T	0.19	-0.3250918	0.07103952	7.19E-06
A	G	0.12	0.4012598	0.0853035	4.08E-06
G	A	0.03	-0.7000252	0.1513127	5.76E-06
G	A	0.02	-0.922697	0.2023164	7.69E-06
G	C	0.02	-0.922697	0.2023164	7.69E-06
A	G	0.02	-0.922697	0.2023164	7.69E-06
T	TAC	0.07	-0.5269995	0.1104534	3.01E-06
C	T	0.01	0.9050124	0.1473972	3.36E-09
T	G	0.01	0.9050124	0.1473972	3.36E-09
A	G	0.02	0.7648417	0.1208105	1.19E-09
C	T	0.02	-0.3916942	0.06545992	8.63E-09
T	TTATA	0.02	-0.8313515	0.1340704	2.58E-09
C	T	0.02	-0.4776925	0.07357297	4.87E-10
C	G	0.02	-0.6524027	0.107625	4.73E-09
C	G	0.02	-0.6524027	0.107625	4.73E-09
A	G	0.02	-0.6524027	0.107625	4.73E-09
T	G	0.01	-0.7792763	0.1298019	6.46E-09
G	T	0.01	-0.7792763	0.1298019	6.46E-09
GA	G	0.01	-0.7792763	0.1298019	6.46E-09
T	C	0.01	-0.7792763	0.1298019	6.46E-09
C	T	0.01	0.7825337	0.1313081	8.00E-09
C	T	0.01	-0.6009533	0.1011465	8.49E-09
AT	A	0.02	-0.5977889	0.09720995	2.82E-09
G	A	0.01	-0.6195987	0.1046439	9.56E-09
C	T	0.01	-0.6195987	0.1046439	9.56E-09
C	T	0.02	-0.5633337	0.09406221	6.56E-09
T	C	0.02	-0.647064	0.1037928	1.72E-09

T	C	0.01	-0.8610884	0.1441492	7.15E-09
AG	A	0.07	0.2178088	0.03576265	4.77E-09
A	T	0.07	0.2159434	0.03595936	7.48E-09
C	T	0.07	0.2205997	0.03592292	3.65E-09
A	G	0.07	0.2178088	0.03576265	4.77E-09
A	G	0.07	0.215106	0.03560352	6.17E-09
C	A	0.07	0.215106	0.03560352	6.17E-09
C	T	0.07	0.2170643	0.03539442	3.81E-09
G	A	0.07	0.2144836	0.0357997	8.05E-09
A	G	0.07	0.2256157	0.03712519	5.12E-09
A	G	0.07	0.2256157	0.03712519	5.12E-09
A	G	0.07	0.2256157	0.03712519	5.12E-09
A	G	0.07	0.2256157	0.03712519	5.12E-09
C	A	0.07	0.2256157	0.03712519	5.12E-09
A	G	0.07	0.2256157	0.03712519	5.12E-09
GAGAAA	G	0.06	0.2304158	0.03749459	3.56E-09
A	T	0.07	0.2228422	0.03694935	6.53E-09
T	C	0.06	0.2253934	0.03757383	7.74E-09
G	A	0.06	0.2240901	0.03735487	7.72E-09
G	A	0.06	0.2253934	0.03757383	7.74E-09
G	C	0.06	0.2253934	0.03757383	7.74E-09
G	A	0.06	0.2253934	0.03757383	7.74E-09
G	A	0.02	-0.5195854	0.07586199	5.57E-11
T	G	0.01	-0.735026	0.1226635	6.87E-09
G	T	0.01	-0.735026	0.1226635	6.87E-09
GA	G	0.01	-0.735026	0.1226635	6.87E-09
T	C	0.01	-0.735026	0.1226635	6.87E-09
C	T	0.01	0.8294306	0.1400769	9.80E-09
A	C	0.05	0.3145446	0.05207489	4.98E-09
G	C	0.02	-0.8354419	0.139595	6.82E-09
T	C	0.03	-0.5542889	0.09351958	9.30E-09
T	TC	0.01	0.7263378	0.1188818	3.48E-09
A	G	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
A	T	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
C	T	0.01	0.7263378	0.1188818	3.48E-09
C	T	0.01	0.7263378	0.1188818	3.48E-09
T	C	0.01	0.7263378	0.1188818	3.48E-09
C	G	0.01	0.7263378	0.1188818	3.48E-09
G	C	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
T	C	0.01	0.7263378	0.1188818	3.48E-09
AC	A	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
A	G	0.01	0.7263378	0.1188818	3.48E-09
C	T	0.01	0.7263378	0.1188818	3.48E-09
C	T	0.01	0.7263378	0.1188818	3.48E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09

G	A	0.01	0.7263378	0.1188818	3.48E-09
G	T	0.01	0.7263378	0.1188818	3.48E-09
A	T	0.01	0.7966501	0.1320586	5.28E-09
G	A	0.01	0.7263378	0.1188818	3.48E-09
A	G	0.01	0.7263378	0.1188818	3.48E-09
T	C	0.01	0.6892028	0.1162841	9.31E-09
A	G	0.01	0.6892028	0.1162841	9.31E-09
T	C	0.01	0.6892028	0.1162841	9.31E-09
C	G	0.01	0.6892028	0.1162841	9.31E-09
C	T	0.01	0.6892028	0.1162841	9.31E-09
AG	A	0.01	0.6892028	0.1162841	9.31E-09
T	A	0.01	0.6892028	0.1162841	9.31E-09
A	G	0.01	0.6892028	0.1162841	9.31E-09
A	G	0.02	0.7200921	0.1097714	2.83E-10
A	AT	0.01	0.6892028	0.1162841	9.31E-09
C	G	0.02	-0.581104	0.09782718	9.24E-09
C	G	0.02	-0.581104	0.09782718	9.24E-09
A	G	0.02	-0.581104	0.09782718	9.24E-09
TTGTGTGTGTGTGTGT	C	0.4	0.1279904	0.02152497	8.41E-09
T	C	0.02	-0.4123493	0.06894355	6.97E-09
AT	A	0.06	0.328756	0.05326754	2.48E-09
C	T	0.02	0.4629876	0.07733595	7.17E-09
A	AG	0.17	-0.2174926	0.03646746	9.30E-09
CATA	C	0.17	-0.2273149	0.03776622	6.97E-09
A	G	0.08	-0.3674907	0.06184935	8.62E-09
G	GAAGA	0.08	-0.4233976	0.07009119	6.63E-09
T	C	0.01	-1.04405	0.1756057	8.84E-09
C	T	0.02	0.5467846	0.09171001	8.07E-09
C	G	0.02	0.5968495	0.09266728	5.89E-10
C	A	0.01	-0.4818795	0.07959288	4.86E-09
T	C	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.06	0.5111597	0.1108735	6.35E-06
C	A	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6173841	0.1348922	7.35E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6067484	0.1325915	7.37E-06
C	T	0.05	0.6215091	0.1349834	6.51E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6156862	0.1343261	7.14E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
T	TTC	0.05	0.6091689	0.1286611	3.66E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06

A	G	0.05	0.6110512	0.1337297	7.59E-06
AGCTTGGGTG	A	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
GA	G	0.05	0.605086	0.132644	7.85E-06
A	C	0.05	0.6110512	0.1337297	7.59E-06
C	G	0.04	0.6480441	0.1430222	8.97E-06
C	G	0.05	0.6110512	0.1337297	7.59E-06
A	T	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
T	G	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
C	G	0.05	0.6222133	0.1368285	8.35E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
T	A	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
G	C	0.05	0.6110512	0.1337297	7.59E-06
T	G	0.05	0.6110512	0.1337297	7.59E-06
C	T	0.05	0.6156862	0.1343261	7.14E-06
C	T	0.05	0.6311703	0.1322546	3.09E-06
C	T	0.05	0.6110512	0.1337297	7.59E-06
C	G	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6348657	0.1345983	3.96E-06
GTATT	G	0.05	0.6110512	0.1337297	7.59E-06
T	C	0.05	0.6110512	0.1337297	7.59E-06
A	G	0.05	0.6110512	0.1337297	7.59E-06
C	A	0.05	0.6110512	0.1337297	7.59E-06
C	A	0.05	0.6110512	0.1337297	7.59E-06
C	G	0.05	0.6110512	0.1337297	7.59E-06
C	A	0.05	0.6110512	0.1337297	7.59E-06
A	T	0.05	0.6110512	0.1337297	7.59E-06
G	T	0.05	0.6375068	0.1345417	3.60E-06
C	A	0.05	0.6110512	0.1337297	7.59E-06
ACT	A	0.05	0.6110512	0.1337297	7.59E-06
G	A	0.05	0.6110512	0.1337297	7.59E-06
G	T	0.23	0.312828	0.06887298	8.55E-06
C	T	0.02	-1.034829	0.2227802	5.44E-06
T	C	0.01	-1.275868	0.2702154	3.87E-06
G	A	0.18	0.3496194	0.07642711	7.42E-06
C	T	0.03	-0.763952	0.1675812	7.95E-06
T	A	0.41	0.3025965	0.06120231	1.41E-06
T	C	0.41	0.3036389	0.06076715	1.11E-06

C	T	0.49	-0.2535442	0.05401748	4.39E-06
T	A	0.02	0.9078015	0.1942971	4.83E-06
G	A	0.02	0.9078015	0.1942971	4.83E-06
T	C	0.39	0.2836681	0.06076419	4.91E-06
T	C	0.39	0.2836681	0.06076419	4.91E-06
T	C	0.42	0.304052	0.05960484	6.78E-07
A	G	0.42	0.304052	0.05960484	6.78E-07
C	T	0.42	0.2897548	0.05947619	1.97E-06
ACACACACACACACA	A	0.04	-0.6790781	0.1433321	3.60E-06
A	T	0.43	-0.2912626	0.05890102	1.41E-06
A	T	0.02	1.127507	0.2401814	4.38E-06
G	T	0.02	1.127507	0.2401814	4.38E-06
G	A	0.02	1.127507	0.2401814	4.38E-06
G	A	0.43	0.2696635	0.05644707	3.02E-06
T	A	0.04	0.7219999	0.1577439	7.34E-06
T	C	0.04	0.7219999	0.1577439	7.34E-06
C	T	0.04	0.7219999	0.1577439	7.34E-06
G	A	0.03	0.7226929	0.1589227	8.35E-06
T	C	0.04	0.7219999	0.1577439	7.34E-06
G	A	0.03	0.729875	0.1583482	6.37E-06
TA	T	0.04	0.7219999	0.1577439	7.34E-06
G	A	0.04	0.7219999	0.1577439	7.34E-06
G	C	0.04	0.7219999	0.1577439	7.34E-06
T	C	0.04	0.7219999	0.1577439	7.34E-06
G	T	0.04	0.7219999	0.1577439	7.34E-06
C	A	0.04	0.7274597	0.1490021	1.87E-06
T	C	0.07	-0.5604834	0.1133236	1.40E-06
T	A	0.24	0.3052633	0.06658279	7.10E-06
A	AGGTCT	0.24	0.3029909	0.06663342	8.36E-06
C	T	0.16	0.3837394	0.08482335	9.25E-06
G	A	0.03	0.8336483	0.1760826	3.66E-06
G	A	0.02	-0.903571	0.1998277	9.34E-06
C	G	0.16	-0.3639638	0.07779903	4.70E-06
CA	C	0.49	-0.2636576	0.05617812	4.40E-06
GTCTGTCTATCTATCT/	G	0.08	0.4875865	0.1080017	9.63E-06
TTAGA	T	0.12	-0.4150986	0.09000454	6.30E-06
A	T	0.01	1.083912	0.2285914	3.54E-06
C	T	0.01	1.200457	0.2349734	6.53E-07
A	T	0.01	1.290096	0.2769572	5.14E-06
C	A	0.01	1.290096	0.2769572	5.14E-06
C	CT	0.15	0.3759711	0.07893672	3.22E-06
T	TTGAA	0.03	0.798578	0.1658382	2.54E-06
T	A	0.41	0.2499306	0.04123554	6.37E-09
T	C	0.41	0.2536688	0.04086704	2.96E-09
G	T	0.17	-0.4803821	0.07533689	1.02E-09
G	C	0.17	-0.449826	0.07497609	7.67E-09
T	C	0.03	-0.925932	0.1540482	9.17E-09
C	T	0.02	-1.288821	0.2079033	2.81E-09
C	T	0.01	-1.471459	0.2449821	7.77E-09
A	G	0.01	-1.349457	0.2260322	9.38E-09

T	C	0.02	0.682262	0.1130931	5.34E-09
C	T	0.02	0.7928059	0.1337133	9.28E-09
A	AAAGAAAGAAAGAA^	0.01	0.8979765	0.1515317	9.44E-09
T	G	0.02	1.100285	0.1593565	4.71E-11
G	A	0.03	0.8710345	0.1439787	5.45E-09
C	T	0.02	0.9896021	0.1616833	3.73E-09
G	A	0.01	0.8810467	0.1481251	8.76E-09
C	T	0.02	0.8444651	0.1365979	2.49E-09
A	T	0.03	0.7252177	0.1179923	2.90E-09
A	C	0.03	0.7078285	0.1156566	4.18E-09
C	T	0.03	0.6030912	0.09912967	5.06E-09
A	AAAGAAAGAAAGAA^	0.01	1.02632	0.1716775	7.13E-09
T	C	0.15	0.3189653	0.05351177	7.90E-09
A	AAAGAAAGAAAGAA^	0.01	1.054359	0.1691491	1.80E-09
C	T	0.02	0.8561539	0.141586	4.94E-09
C	T	0.02	1.071757	0.1757919	3.90E-09
G	A	0.02	0.8523424	0.1367954	1.84E-09
G	A	0.01	1.311323	0.212082	2.38E-09
C	T	0.03	0.9544408	0.1469284	4.32E-10
A	G	0.03	0.9544408	0.1469284	4.32E-10
C	G	0.03	0.9544408	0.1469284	4.32E-10
A	AT	0.01	0.9138275	0.152514	6.88E-09
C	T	0.01	1.347053	0.2183519	2.64E-09
C	T	0.01	1.386984	0.2234719	2.16E-09
C	T	0.01	1.347053	0.2183519	2.64E-09
C	T	0.01	1.347053	0.2183519	2.64E-09
C	T	0.01	1.347053	0.2183519	2.64E-09
A	G	0.02	0.8782446	0.1426186	3.33E-09
G	A	0.01	0.9029898	0.1456359	2.17E-09
C	T	0.02	0.8228347	0.1371924	7.70E-09
G	A	0.01	0.9233304	0.1477537	1.68E-09
G	A	0.01	1.080688	0.1796776	5.88E-09
C	T	0.02	0.8394554	0.1419042	9.99E-09
A	G	0.02	0.8394554	0.1419042	9.99E-09
C	G	0.02	0.8394554	0.1419042	9.99E-09
A	T	0.01	1.208523	0.1996459	4.77E-09
G	A	0.01	0.8948992	0.1415511	1.19E-09
T	C	0.02	0.7407677	0.1204866	3.09E-09
A	AAAGAAAGAAAGAA^	0.01	1.066899	0.1750197	4.37E-09
C	T	0.02	0.9624593	0.1569201	3.36E-09
G	A	0.01	1.027432	0.1517559	9.59E-11
A	G	0.17	0.1954979	0.03268407	6.98E-09
T	C	0.17	-0.4024958	0.06752066	9.11E-09
A	G	0.02	0.9367626	0.1478792	9.82E-10
G	A	0.05	-0.6050854	0.1012123	6.94E-09
C	T	0.28	0.2141592	0.03448793	1.96E-09
C	T	0.32	0.2545141	0.05609281	8.16E-06
T	A	0.05	-0.5688558	0.1232212	5.75E-06
AT	A	0.44	0.2393599	0.05182507	5.69E-06
TA	T	0.01	1.131063	0.2482928	7.54E-06

C	CT	0.12	0.3720625	0.07973839	4.60E-06
T	C	0.29	0.260747	0.05689293	6.67E-06
C	T	0.35	0.2507036	0.05414599	5.41E-06
C	T	0.02	1.124048	0.2216694	7.03E-07
G	C	0.16	-0.3309619	0.07363298	9.84E-06
G	A	0.01	-1.188504	0.2386424	1.08E-06
T	G	0.06	0.5019934	0.1099897	7.26E-06
G	A	0.06	0.5019934	0.1099897	7.26E-06
AG	A	0.06	0.504589	0.1091981	5.64E-06
G	C	0.06	0.5065401	0.1125044	9.51E-06
C	A	0.06	0.5065401	0.1125044	9.51E-06
T	A	0.06	0.5065401	0.1125044	9.51E-06
A	G	0.47	0.2436597	0.0522344	4.63E-06
C	T	0.47	0.2419708	0.05217851	5.24E-06
A	G	0.47	0.2407101	0.05234374	6.22E-06
C	T	0.47	0.2385901	0.0522724	7.24E-06
C	G	0.47	0.2414502	0.05206905	5.24E-06
A	G	0.47	0.2414502	0.05206905	5.24E-06
T	C	0.47	0.2383468	0.05219293	7.17E-06
C	T	0.47	0.2394975	0.05193428	5.88E-06
T	C	0.47	0.2414502	0.05206905	5.24E-06
G	A	0.47	0.2415365	0.05208795	5.24E-06
A	G	0.47	0.2414502	0.05206905	5.24E-06
C	G	0.47	0.2430234	0.05206539	4.57E-06
T	C	0.47	0.2431349	0.05212502	4.64E-06
C	T	0.47	0.2380013	0.05226007	7.58E-06
C	T	0.47	0.2419708	0.05217851	5.24E-06
A	G	0.47	0.245099	0.05216114	3.97E-06
G	A	0.47	0.2434696	0.0523913	5.01E-06
T	C	0.47	0.2498088	0.05224942	2.73E-06
G	A	0.47	0.2566664	0.05234071	1.55E-06
C	T	0.47	0.252895	0.05238159	2.20E-06
T	C	0.47	0.2448183	0.05252238	4.70E-06
C	G	0.46	0.2581711	0.05214387	1.24E-06
T	C	0.22	0.2930891	0.06411455	7.02E-06
T	C	0.11	0.416426	0.08685256	2.57E-06
A	G	0.3	-0.2742692	0.05946943	5.87E-06
TG	T	0.12	-0.4029194	0.08123469	1.19E-06
C	T	0.05	-0.563171	0.1225224	6.28E-06
G	A	0.16	0.3284932	0.07279435	9.10E-06
GT	G	0.12	0.389758	0.08332416	4.37E-06
TA	T	0.05	-0.5905337	0.1178355	9.33E-07
CAAAAAGA	C	0.05	-0.5826136	0.121914	2.76E-06
G	C	0.09	0.4253969	0.09314836	7.16E-06
A	G	0.09	0.4253969	0.09314836	7.16E-06
C	T	0.09	0.4253969	0.09314836	7.16E-06
C	G	0.09	0.4253969	0.09314836	7.16E-06
T	A	0.09	0.4253969	0.09314836	7.16E-06
C	T	0.09	0.4253969	0.09314836	7.16E-06
T	G	0.09	0.4253969	0.09314836	7.16E-06

C	T	0.09	0.4253969	0.09314836	7.16E-06
C	T	0.09	0.4253969	0.09314836	7.16E-06
C	T	0.09	0.4253969	0.09314836	7.16E-06
G	C	0.09	0.4253969	0.09314836	7.16E-06
T	C	0.09	0.4253969	0.09314836	7.16E-06
G	T	0.09	0.4253969	0.09314836	7.16E-06
C	T	0.09	0.4253969	0.09314836	7.16E-06
T	G	0.1	0.4152591	0.08988589	5.66E-06
G	C	0.1	0.4072883	0.09021458	9.02E-06
G	C	0.1	0.4072883	0.09021458	9.02E-06
G	A	0.1	0.422909	0.09023581	4.19E-06
A	G	0.02	-0.8891146	0.1945571	7.07E-06
C	G	0.02	-0.8891146	0.1945571	7.07E-06
G	A	0.02	-0.8891146	0.1945571	7.07E-06
T	G	0.01	1.161144	0.2368706	1.56E-06
A	T	0.04	-0.6216009	0.1363177	7.39E-06
T	G	0.04	-0.6391255	0.1350982	3.44E-06
A	T	0.04	-0.6216009	0.1363177	7.39E-06
C	T	0.04	-0.6216009	0.1363177	7.39E-06
T	C	0.04	-0.6216009	0.1363177	7.39E-06
A	T	0.04	-0.6216009	0.1363177	7.39E-06
G	T	0.04	-0.6216009	0.1363177	7.39E-06
C	T	0.04	-0.6216009	0.1363177	7.39E-06
T	C	0.04	-0.6216009	0.1363177	7.39E-06
A	G	0.04	-0.6216009	0.1363177	7.39E-06
G	C	0.04	-0.6216009	0.1363177	7.39E-06
AC	A	0.04	-0.6230303	0.1364596	7.20E-06
T	C	0.04	-0.6216009	0.1363177	7.39E-06
C	A	0.04	-0.6216009	0.1363177	7.39E-06
C	T	0.04	-0.6216009	0.1363177	7.39E-06
T	C	0.03	0.8661783	0.1677059	4.47E-07
GT	G	0.23	0.2734541	0.05989978	7.22E-06
G	A	0.03	-0.6761069	0.1489293	8.07E-06
GT	G	0.2	0.337677	0.06880999	1.52E-06
C	T	0.09	0.3949698	0.08588558	6.22E-06
A	AT	0.1	-0.4562752	0.08561275	1.99E-07
C	T	0.03	0.7815425	0.1716574	7.62E-06
G	C	0.01	-1.266359	0.2688362	3.77E-06
G	A	0.02	0.9511342	0.2060285	5.75E-06
C	T	0.03	-0.7092219	0.1501242	3.54E-06
TA	T	0.06	-0.4716938	0.07902232	9.22E-09
G	A	0.03	-0.6136466	0.1027761	8.87E-09
A	G	0.02	1.119129	0.1844868	5.38E-09
A	G	0.01	1.063059	0.1767456	6.82E-09
G	A	0.01	0.9625002	0.1626058	9.73E-09
T	G	0.01	0.9625002	0.1626058	9.73E-09
G	GAT	0.01	0.9625002	0.1626058	9.73E-09
G	T	0.01	0.9625002	0.1626058	9.73E-09
T	C	0.01	0.9625002	0.1626058	9.73E-09
G	A	0.01	0.9625002	0.1626058	9.73E-09

T	C	0.01	0.9625002	0.1626058	9.73E-09
A	G	0.01	0.9625002	0.1626058	9.73E-09
G	A	0.01	0.9625002	0.1626058	9.73E-09
C	T	0.01	0.9625002	0.1626058	9.73E-09
A	G	0.01	0.9625002	0.1626058	9.73E-09
C	A	0.01	0.9625002	0.1626058	9.73E-09
A	C	0.01	0.9625002	0.1626058	9.73E-09
T	C	0.01	0.9625002	0.1626058	9.73E-09
A	G	0.01	0.9625002	0.1626058	9.73E-09
T	A	0.01	0.9625002	0.1626058	9.73E-09
G	A	0.01	0.9625002	0.1626058	9.73E-09
A	G	0.01	0.9625002	0.1626058	9.73E-09
C	T	0.01	0.9625002	0.1626058	9.73E-09
C	T	0.01	0.9625002	0.1626058	9.73E-09
A	ATCTCTCTCTCTC	0.02	1.050533	0.1766102	8.80E-09
A	G	0.01	-0.7122939	0.1094995	3.83E-10
G	C	0.01	-0.8080093	0.1123614	6.88E-12
C	T	0.01	-0.8659721	0.1458107	8.67E-09
G	GTC	0.01	0.7532307	0.1263216	7.57E-09
C	T	0.01	0.8849851	0.1374984	5.57E-10
T	G	0.01	0.8849851	0.1374984	5.57E-10
T	TC	0.01	0.7852339	0.1184361	1.85E-10
A	G	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
A	T	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
C	T	0.01	0.7852339	0.1184361	1.85E-10
C	T	0.01	0.7852339	0.1184361	1.85E-10
T	C	0.01	0.7852339	0.1184361	1.85E-10
C	G	0.01	0.7852339	0.1184361	1.85E-10
G	C	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
T	C	0.01	0.7852339	0.1184361	1.85E-10
AC	A	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
A	G	0.01	0.7852339	0.1184361	1.85E-10
C	T	0.01	0.7852339	0.1184361	1.85E-10
C	T	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7852339	0.1184361	1.85E-10
G	A	0.01	0.7664245	0.1237801	2.18E-09
G	A	0.01	0.7852339	0.1184361	1.85E-10
G	T	0.01	0.7852339	0.1184361	1.85E-10
A	T	0.01	0.8411398	0.1334351	1.17E-09
G	A	0.01	0.7852339	0.1184361	1.85E-10
A	G	0.01	0.7852339	0.1184361	1.85E-10
T	C	0.02	0.725577	0.1162584	1.66E-09
A	G	0.02	0.725577	0.1162584	1.66E-09
T	C	0.02	0.725577	0.1162584	1.66E-09
C	G	0.02	0.725577	0.1162584	1.66E-09

C	T	0.02	0.725577	0.1162584	1.66E-09
C	T	0.01	0.7449713	0.1252897	8.28E-09
AG	A	0.02	0.725577	0.1162584	1.66E-09
T	A	0.02	0.725577	0.1162584	1.66E-09
A	G	0.02	0.725577	0.1162584	1.66E-09
T	TG	0.01	0.7727777	0.1265672	3.49E-09
A	G	0.02	0.7100937	0.1100571	5.10E-10
A	AT	0.02	0.725577	0.1162584	1.66E-09
A	G	0.15	-0.2436611	0.04033024	5.29E-09
A	G	0.15	-0.2423052	0.04061787	7.95E-09
G	T	0.09	-0.3061986	0.05074006	5.49E-09
G	A	0.01	-0.7879195	0.1316837	7.22E-09
G	GT	0.01	-0.7879195	0.1316837	7.22E-09
G	C	0.01	-0.7879195	0.1316837	7.22E-09
C	G	0.01	-0.7879195	0.1316837	7.22E-09
C	G	0.01	-0.7879195	0.1316837	7.22E-09
G	A	0.01	-0.7400267	0.1247087	8.80E-09
C	CA	0.02	-0.5126319	0.08369557	3.13E-09
G	A	0.01	-0.6389069	0.1036355	2.89E-09
T	G	0.01	-0.6389069	0.1036355	2.89E-09
G	A	0.04	-0.3333681	0.05561358	6.40E-09
C	T	0.05	-0.5293983	0.08945337	9.57E-09
C	T	0.01	-1.115656	0.1831292	3.77E-09
GGTTTTGTTTT	G	0.01	-0.753006	0.1260164	7.29E-09
G	A	0.02	-0.4980317	0.08418733	9.69E-09
CG	C	0.02	-0.5578311	0.08921329	1.56E-09
T	C	0.02	-0.5578311	0.08921329	1.56E-09
T	A	0.01	0.8704353	0.1379188	1.12E-09
G	A	0.15	-0.2717947	0.0453593	6.55E-09
G	A	0.15	-0.2719828	0.04531754	6.22E-09
A	G	0.15	-0.2785644	0.0453293	2.85E-09
A	G	0.15	-0.2758327	0.04564361	4.97E-09
TTTTTGTTTTTG	T	0.01	-0.6310499	0.1055024	8.19E-09
TGGGCACACACACGA	C	0.01	-1.094395	0.242829	9.56E-06
A	AAG	0.02	-0.9366407	0.2075207	9.29E-06
TTC	T	0.1	0.4391517	0.09398809	4.60E-06
T	G	0.37	-0.2601023	0.05749393	8.87E-06
G	GA	0.37	-0.2758496	0.05713386	2.27E-06
C	G	0.03	0.7524335	0.1610567	4.61E-06
T	C	0.03	0.7524335	0.1610567	4.61E-06
C	T	0.13	0.3545348	0.07785569	7.79E-06
T	C	0.13	0.3601693	0.07767357	5.39E-06
A	G	0.08	-0.4873774	0.1008897	2.24E-06
T	C	0.03	-0.7505832	0.157967	3.22E-06
T	C	0.07	-0.4823661	0.1025558	4.00E-06
A	G	0.18	-0.3330628	0.07109284	4.35E-06
G	A	0.18	-0.3279974	0.07108209	5.96E-06
A	C	0.18	-0.3330628	0.07109284	4.35E-06
C	A	0.18	-0.3347828	0.07147417	4.37E-06
G	A	0.18	-0.3347828	0.07147417	4.37E-06

C	G	0.01	-1.184637	0.2511213	3.76E-06
AT	A	0.04	-0.5731639	0.1268559	9.10E-06
C	CACACACAG	0.06	-0.5684042	0.1149468	1.32E-06
G	T	0.21	0.3512286	0.07516781	4.60E-06
C	T	0.21	0.3157151	0.06795444	5.18E-06
T	A	0.21	0.31036	0.0679668	7.37E-06
C	A	0.21	0.3126136	0.0679299	6.29E-06
A	T	0.21	0.3177586	0.06754949	3.99E-06
G	A	0.19	0.3208486	0.07013287	7.10E-06
C	T	0.19	0.3208486	0.07013287	7.10E-06
A	G	0.21	0.3126136	0.0679299	6.29E-06
C	T	0.19	0.315615	0.07006843	9.66E-06
G	A	0.21	0.3052142	0.06787702	1.00E-05
C	T	0.21	0.3076112	0.06786049	8.53E-06
A	G	0.21	0.3076112	0.06786049	8.53E-06
A	G	0.21	0.3076112	0.06786049	8.53E-06
G	T	0.21	0.3076112	0.06786049	8.53E-06
T	A	0.21	0.3076112	0.06786049	8.53E-06
G	A	0.21	0.3126136	0.0679299	6.29E-06
C	G	0.21	0.3126136	0.0679299	6.29E-06
C	T	0.21	0.3126136	0.0679299	6.29E-06
G	C	0.21	0.3126136	0.0679299	6.29E-06
T	C	0.21	0.3126136	0.0679299	6.29E-06
G	C	0.21	0.3126136	0.0679299	6.29E-06
C	T	0.21	0.3126136	0.0679299	6.29E-06
G	T	0.21	0.3126136	0.0679299	6.29E-06
C	A	0.21	0.3126136	0.0679299	6.29E-06
T	TCCCCTTC	0.2	0.3219714	0.0694136	5.35E-06
A	T	0.21	0.309916	0.06814678	7.99E-06
G	A	0.21	0.3065626	0.0676486	8.58E-06
G	A	0.21	0.3065626	0.0676486	8.58E-06
C	T	0.22	0.304721	0.06715479	8.36E-06
T	C	0.29	0.2789471	0.06097955	7.11E-06
C	A	0.05	-0.5669766	0.1250723	8.52E-06
C	G	0.35	-0.3042365	0.05836711	3.71E-07
C	T	0.34	-0.2997893	0.05888305	6.64E-07
GC	G	0.34	-0.2842942	0.05925256	2.61E-06
G	A	0.37	-0.2707857	0.05877781	6.16E-06
C	G	0.35	-0.2933474	0.05799708	7.78E-07
A	G	0.36	-0.2895995	0.05736912	8.15E-07
C	A	0.23	-0.3081665	0.0648453	3.21E-06
A	G	0.38	-0.2623166	0.05818269	9.49E-06
A	G	0.23	-0.2993358	0.06502136	6.25E-06
T	C	0.22	-0.3023239	0.06552666	5.97E-06
G	A	0.37	-0.2682832	0.05900006	8.01E-06
A	T	0.38	-0.2678823	0.05900359	8.27E-06
A	C	0.38	-0.2726465	0.05864862	5.11E-06
T	A	0.21	-0.3216306	0.06654698	2.22E-06
G	A	0.21	-0.3078421	0.06625489	5.17E-06
G	A	0.39	-0.2676205	0.05851898	7.15E-06

C	T	0.39	-0.2756102	0.05829831	3.59E-06
G	A	0.39	-0.2756102	0.05829831	3.59E-06
G	A	0.39	-0.2754999	0.05838581	3.74E-06
T	A	0.39	-0.2767332	0.05816512	3.13E-06
C	T	0.23	-0.3028721	0.06446066	4.09E-06
T	C	0.39	-0.2698392	0.05834481	5.69E-06
G	A	0.39	-0.2682551	0.05847229	6.70E-06
G	A	0.22	-0.3161918	0.0663899	3.06E-06
A	G	0.19	-0.3221621	0.07041866	7.09E-06
T	TGTGTGTGCGCGC	0.02	-0.8137707	0.1786475	7.74E-06
C	T	0.45	-0.2680709	0.05545626	2.21E-06
T	A	0.07	-0.5245017	0.1107053	3.43E-06
A	ATATGTGTG	0.06	-0.5126162	0.1052836	1.88E-06
C	T	0.44	0.2538585	0.05565062	7.52E-06
G	T	0.02	0.847762	0.1829197	5.45E-06
C	T	0.02	0.847762	0.1829197	5.45E-06
A	G	0.05	-0.6214656	0.1322162	4.06E-06
A	AAAAAT	0.29	0.27239	0.0589077	5.71E-06
A	G	0.02	-0.8888137	0.1954873	8.03E-06
A	AT	0.04	-0.6475575	0.1422833	7.87E-06
T	G	0.04	-0.6287934	0.1355424	5.34E-06
T	A	0.04	-0.6287934	0.1355424	5.34E-06
T	C	0.04	-0.6287934	0.1355424	5.34E-06
AAATTTTGCAGG	A	0.04	-0.6287934	0.1355424	5.34E-06
T	A	0.04	-0.6287934	0.1355424	5.34E-06
TGAA	T	0.04	-0.6287934	0.1355424	5.34E-06
AC	A	0.04	-0.6287934	0.1355424	5.34E-06
A	G	0.04	-0.6287934	0.1355424	5.34E-06
G	A	0.03	-0.7223613	0.1558876	5.46E-06
G	A	0.04	-0.6287934	0.1355424	5.34E-06
C	T	0.04	-0.6287934	0.1355424	5.34E-06
C	T	0.04	-0.6287934	0.1355424	5.34E-06
A	G	0.04	-0.6287934	0.1355424	5.34E-06
A	C	0.04	-0.6287934	0.1355424	5.34E-06
C	G	0.04	-0.6287934	0.1355424	5.34E-06
T	C	0.03	-0.7080193	0.1525988	5.32E-06
G	A	0.04	-0.6287934	0.1355424	5.34E-06
T	C	0.04	-0.6287934	0.1355424	5.34E-06
AT	A	0.04	-0.6202355	0.1363175	7.92E-06
A	G	0.04	-0.6287934	0.1355424	5.34E-06
A	C	0.04	-0.6287934	0.1355424	5.34E-06
C	T	0.07	-0.4919023	0.1076737	7.30E-06
A	G	0.07	-0.4996979	0.1089328	6.72E-06
G	T	0.21	0.2956944	0.06564148	9.65E-06
TG	T	0.21	0.2974986	0.06561461	8.49E-06
C	T	0.2	0.3106873	0.06735986	6.01E-06
G	A	0.21	0.3159332	0.0658937	2.65E-06
T	G	0.21	0.2951321	0.06563177	9.99E-06
C	T	0.21	0.309685	0.06582041	3.97E-06
T	C	0.21	0.2960456	0.06565259	9.46E-06

G	A	0.21	0.295496	0.06564016	9.77E-06
A	T	0.12	-0.3935756	0.08586633	6.83E-06
G	A	0.03	-0.4149482	0.06118397	9.25E-11
C	A	0.01	-1.520965	0.2471109	2.90E-09
A	ATATATGTGTGTG	0.02	-0.9567549	0.1607697	8.98E-09
GC	G	0.01	-0.8477019	0.142791	9.93E-09
G	A	0.05	-0.7210595	0.1194279	5.03E-09
C	CTG	0.01	1.045341	0.1742171	6.30E-09
C	T	0.14	-0.3801106	0.07874518	2.21E-06
A	G	0.14	-0.3367163	0.07457296	8.98E-06
C	CT	0.01	1.169399	0.2517581	5.06E-06
G	T	0.01	-1.174565	0.2423218	2.01E-06
C	CTT	0.05	-0.47383	0.103647	7.01E-06
C	T	0.32	0.2529458	0.0561403	9.37E-06
G	A	0.03	-0.707568	0.1541777	6.48E-06
T	G	0.01	-1.040151	0.2240069	5.09E-06
G	GACAC	0.03	-0.7400939	0.1634918	8.54E-06
C	T	0.04	-0.6326873	0.1339932	3.57E-06
G	A	0.04	-0.6326873	0.1339932	3.57E-06
G	C	0.06	0.4990401	0.1071124	4.75E-06
A	AATCTATCT	0.04	-0.6362868	0.139229	7.06E-06
G	A	0.37	0.2633139	0.05403969	1.79E-06
C	T	0.37	0.2633139	0.05403969	1.79E-06
T	C	0.37	0.2584619	0.05421665	2.91E-06
T	TA	0.21	-0.3025692	0.06627874	7.21E-06
G	GT	0.14	-0.3557894	0.07817293	7.67E-06
A	ACATTTGTAATCC	0.18	-0.3141105	0.06956851	8.99E-06
T	C	0.06	0.6172012	0.1106954	5.75E-08
G	A	0.08	0.4426439	0.09749695	8.06E-06
C	T	0.13	0.3717195	0.08103339	6.54E-06
G	A	0.13	0.3782219	0.08080092	4.30E-06
A	G	0.15	-0.3436268	0.07565912	8.00E-06
C	T	0.12	-0.4329228	0.08192243	2.49E-07
TTA	T	0.14	-0.4010691	0.07729233	3.97E-07
A	AC	0.14	-0.4035291	0.07875523	5.44E-07
C	T	0.13	-0.3697679	0.07900595	4.31E-06
T	A	0.13	-0.3574822	0.07893923	8.47E-06
G	T	0.12	-0.3863312	0.08200494	3.75E-06
C	A	0.42	-0.239826	0.05239025	6.82E-06
G	T	0.42	-0.2424237	0.05224031	5.16E-06
G	A	0.42	-0.2433814	0.05251756	5.30E-06
A	G	0.04	-0.6080795	0.1345303	8.80E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
T	C	0.05	-0.5815646	0.1248826	4.79E-06
G	T	0.05	-0.5878677	0.1262556	4.81E-06
T	C	0.05	-0.5815646	0.1248826	4.79E-06
G	A	0.05	-0.5878677	0.1262556	4.81E-06
A	T	0.05	-0.5815646	0.1248826	4.79E-06
A	G	0.05	-0.5815646	0.1248826	4.79E-06
T	G	0.05	-0.5815646	0.1248826	4.79E-06

T	C	0.05	-0.5845744	0.1255989	4.85E-06
G	A	0.05	-0.5815646	0.1248826	4.79E-06
A	G	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
A	G	0.05	-0.5815646	0.1248826	4.79E-06
T	C	0.05	-0.5777151	0.1255888	6.18E-06
T	C	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5878677	0.1262556	4.81E-06
G	A	0.05	-0.5878677	0.1262556	4.81E-06
C	G	0.05	-0.5815646	0.1248826	4.79E-06
C	A	0.05	-0.5815646	0.1248826	4.79E-06
T	G	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
G	A	0.05	-0.5815646	0.1248826	4.79E-06
G	A	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
A	G	0.05	-0.5815646	0.1248826	4.79E-06
T	C	0.05	-0.5815646	0.1248826	4.79E-06
G	C	0.05	-0.5815646	0.1248826	4.79E-06
G	A	0.05	-0.5815646	0.1248826	4.79E-06
T	A	0.05	-0.5815646	0.1248826	4.79E-06
C	T	0.05	-0.5815646	0.1248826	4.79E-06
G	C	0.04	-0.6012345	0.129821	5.37E-06
C	T	0.02	-0.9661944	0.2090105	5.58E-06
A	C	0.01	-1.077644	0.2340905	6.08E-06
A	G	0.01	-1.077644	0.2340905	6.08E-06
T	C	0.04	-0.6500264	0.1438245	8.82E-06
T	C	0.05	-0.5559796	0.1224879	8.09E-06
A	G	0.29	-0.2642665	0.05535381	2.82E-06
G	A	0.28	-0.2551754	0.05598617	7.45E-06
T	C	0.05	-0.550789	0.1210869	7.76E-06
G	C	0.36	0.2669445	0.05572648	2.62E-06
C	CA	0.18	0.3108668	0.06385264	1.82E-06
T	C	0.02	0.7485969	0.1664035	9.66E-06
TGCAGA	T	0.14	0.3557569	0.0780951	7.53E-06
C	T	0.12	0.3673716	0.08008134	6.53E-06
C	A	0.14	0.3680664	0.07637623	2.29E-06
A	G	0.14	0.3580701	0.07803755	6.50E-06
C	G	0.14	0.3679506	0.07787027	3.52E-06
T	A	0.14	0.3680827	0.07732473	3.00E-06
C	G	0.14	0.3679506	0.07787027	3.52E-06
G	A	0.14	0.3576995	0.07679818	4.78E-06
A	G	0.13	0.3642523	0.07811618	4.66E-06
A	G	0.14	0.3679506	0.07787027	3.52E-06
A	G	0.14	0.3679506	0.07787027	3.52E-06
C	T	0.14	0.380776	0.0739314	4.79E-07
C	A	0.14	0.3679506	0.07787027	3.52E-06
G	A	0.14	0.3679506	0.07787027	3.52E-06
T	C	0.14	0.3679506	0.07787027	3.52E-06

A	G	0.14	0.3645582	0.077699	4.09E-06
G	T	0.14	0.3679506	0.07787027	3.52E-06
C	G	0.14	0.3679506	0.07787027	3.52E-06
G	T	0.14	0.3679506	0.07787027	3.52E-06
C	G	0.14	0.3681938	0.07795527	3.55E-06
T	C	0.14	0.3679506	0.07787027	3.52E-06
C	T	0.14	0.3608387	0.07777874	5.18E-06
G	A	0.14	0.3699618	0.07791803	3.17E-06
G	C	0.14	0.3679506	0.07787027	3.52E-06
C	CAA	0.13	0.3612285	0.08008777	9.18E-06
G	T	0.14	0.3679506	0.07787027	3.52E-06
A	G	0.14	0.3679506	0.07787027	3.52E-06
A	G	0.14	0.3679506	0.07787027	3.52E-06
TAGCATT	T	0.13	0.359385	0.07850082	6.81E-06
CATATAACA	T	0.14	0.3679506	0.07787027	3.52E-06
C	A	0.12	0.3696408	0.08126122	7.75E-06
G	T	0.12	0.3696247	0.08112798	7.51E-06
C	G	0.12	0.3696247	0.08112798	7.51E-06
A	A	0.12	0.3696247	0.08112798	7.51E-06
G	T	0.12	0.3696247	0.08112798	7.51E-06
C	C	0.12	0.3696247	0.08112798	7.51E-06
G	C	0.12	0.3704941	0.080942	6.84E-06
T	T	0.12	0.3704941	0.080942	6.84E-06
C	T	0.12	0.3704941	0.080942	6.84E-06
G	A	0.12	0.3704941	0.080942	6.84E-06
T	C	0.12	0.3704941	0.080942	6.84E-06
T	G	0.12	0.3704941	0.080942	6.84E-06
C	T	0.12	0.3704941	0.080942	6.84E-06
C	T	0.12	0.3704941	0.080942	6.84E-06
C	T	0.12	0.3704941	0.080942	6.84E-06
C	T	0.12	0.3704941	0.080942	6.84E-06
T	C	0.12	0.3704941	0.080942	6.84E-06
T	C	0.12	0.3704941	0.080942	6.84E-06
G	A	0.12	0.3800456	0.08115332	4.26E-06
A	G	0.02	-1.000278	0.1922272	3.70E-07
G	A	0.02	-1.053859	0.195252	1.42E-07
C	A	0.02	-1.000278	0.1922272	3.70E-07
G	A	0.21	-0.3017219	0.06595391	6.91E-06
A	G	0.2	0.3086802	0.06616157	4.61E-06
T	G	0.44	-0.2367836	0.05260173	9.55E-06
CT	C	0.01	-1.142927	0.2436745	4.12E-06
C	CA	0.02	-0.9885383	0.207643	2.99E-06
C	T	0.03	-0.7618971	0.1664724	6.85E-06
C	CA	0.02	-0.7991855	0.1771397	9.13E-06
CAA	C	0.01	-0.9869261	0.2185277	8.95E-06
CACAT	C	0.03	-0.7203068	0.1544368	4.64E-06
G	A	0.01	1.256274	0.2739884	6.60E-06
G	A	0.01	1.256274	0.2739884	6.60E-06
A	G	0.01	1.256274	0.2739884	6.60E-06
G	T	0.01	1.256274	0.2739884	6.60E-06

G	C	0.25	0.30652	0.06113623	9.22E-07
T	TAC	0.03	0.7339048	0.1609307	7.37E-06
C	T	0.01	0.9150687	0.1292649	1.32E-11
T	G	0.01	0.9150687	0.1292649	1.32E-11
T	TC	0.01	0.7513368	0.1119826	1.17E-10
A	G	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
A	T	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
C	T	0.01	0.7513368	0.1119826	1.17E-10
C	T	0.01	0.7513368	0.1119826	1.17E-10
T	C	0.01	0.7513368	0.1119826	1.17E-10
C	G	0.01	0.7513368	0.1119826	1.17E-10
G	C	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
T	C	0.01	0.7513368	0.1119826	1.17E-10
AC	A	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
A	G	0.01	0.7513368	0.1119826	1.17E-10
C	T	0.01	0.7513368	0.1119826	1.17E-10
C	T	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.714504	0.1166193	3.11E-09
G	A	0.01	0.7513368	0.1119826	1.17E-10
G	T	0.01	0.7513368	0.1119826	1.17E-10
G	A	0.01	0.7513368	0.1119826	1.17E-10
A	G	0.01	0.7513368	0.1119826	1.17E-10
T	C	0.02	0.6815003	0.1098139	2.01E-09
A	G	0.02	0.6815003	0.1098139	2.01E-09
T	C	0.02	0.6815003	0.1098139	2.01E-09
C	G	0.02	0.6815003	0.1098139	2.01E-09
C	T	0.02	0.6815003	0.1098139	2.01E-09
C	T	0.01	0.7109093	0.1191392	7.39E-09
AG	A	0.02	0.6815003	0.1098139	2.01E-09
T	A	0.02	0.6815003	0.1098139	2.01E-09
A	G	0.02	0.6815003	0.1098139	2.01E-09
A	G	0.02	0.7207034	0.1037765	2.94E-11
A	AT	0.02	0.6815003	0.1098139	2.01E-09
T	A	0.02	0.6091253	0.1029707	9.71E-09
G	A	0.02	-0.4091231	0.06670092	3.22E-09
C	G	0.02	-0.5452718	0.08406375	4.59E-10
C	G	0.02	-0.5452718	0.08406375	4.59E-10
A	G	0.02	-0.5452718	0.08406375	4.59E-10
C	T	0.02	-0.4960351	0.08028042	2.52E-09
C	T	0.02	-0.5137802	0.08242085	1.87E-09
C	T	0.02	-0.5137802	0.08242085	1.87E-09
T	G	0.01	-0.6651337	0.1008335	2.47E-10
G	T	0.01	-0.6651337	0.1008335	2.47E-10
GA	G	0.01	-0.6651337	0.1008335	2.47E-10

T	C	0.01	-0.6651337	0.1008335	2.47E-10
A	G	0.02	-0.5850454	0.09482402	2.65E-09
AT	A	0.06	0.2816328	0.04755482	9.40E-09
T	A	0.4	0.1223809	0.02048678	8.43E-09
A	G	0.01	-0.67229	0.1108666	4.68E-09
A	C	0.01	-0.6343293	0.1031375	2.94E-09
C	G	0.02	-0.5986843	0.08443548	1.40E-11
C	G	0.02	-0.5986843	0.08443548	1.40E-11
A	G	0.02	-0.5986843	0.08443548	1.40E-11
C	T	0.02	-0.5420779	0.0807495	1.27E-10
C	T	0.02	-0.560357	0.08298689	1.01E-10
C	T	0.02	-0.560357	0.08298689	1.01E-10
C	T	0.02	-0.4843839	0.07973165	4.42E-09
T	C	0.01	-0.6485894	0.1061806	3.70E-09
T	G	0.01	-0.7169428	0.1022191	2.20E-11
G	T	0.01	-0.7169428	0.1022191	2.20E-11
GA	G	0.01	-0.7169428	0.1022191	2.20E-11
T	C	0.01	-0.7169428	0.1022191	2.20E-11
A	G	0.02	-0.5877571	0.09708989	4.96E-09
A	G	0.02	-0.6359995	0.09611002	2.19E-10
T	C	0.15	0.1380616	0.02327757	9.17E-09
G	C	0.15	0.1400531	0.02329908	5.98E-09
C	T	0.12	-0.2204293	0.03717979	9.04E-09
A	T	0.05	0.1827154	0.03005553	4.07E-09
TA	T	0.01	-0.4917638	0.07602094	4.64E-10
T	A	0.01	0.7703169	0.1293505	7.85E-09
T	G	0.01	-0.7611387	0.124623	3.50E-09
G	T	0.01	-0.7611387	0.124623	3.50E-09
GA	G	0.01	-0.7611387	0.124623	3.50E-09
T	C	0.01	-0.7611387	0.124623	3.50E-09
G	A	0.01	-0.5101481	0.08429133	4.72E-09
C	T	0.01	-0.5101481	0.08429133	4.72E-09
G	T	0.02	-0.3179766	0.05368188	9.37E-09
CGT	C	0.01	-0.4381884	0.07346551	7.49E-09
T	C	0.03	-0.2897147	0.04790078	4.77E-09
C	CTATG	0.09	0.359761	0.06056343	9.50E-09
T	C	0.01	-0.9519392	0.1390439	5.36E-11
A	AACAC	0.05	-0.3393142	0.05630177	5.54E-09
C	T	0.01	0.9901279	0.1447887	5.51E-11
T	G	0.01	0.9901279	0.1447887	5.51E-11
T	TC	0.01	0.8827766	0.1247383	1.34E-11
A	G	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
A	T	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
C	T	0.01	0.8827766	0.1247383	1.34E-11
C	T	0.01	0.8827766	0.1247383	1.34E-11
T	C	0.01	0.8827766	0.1247383	1.34E-11
C	G	0.01	0.8827766	0.1247383	1.34E-11

G	C	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
T	C	0.01	0.8827766	0.1247383	1.34E-11
AC	A	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
A	G	0.01	0.8827766	0.1247383	1.34E-11
C	T	0.01	0.8827766	0.1247383	1.34E-11
C	T	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8827766	0.1247383	1.34E-11
G	A	0.01	0.8363188	0.1301584	5.93E-10
ΓGTAGAATGAGTTAAC	T	0.01	0.8440027	0.1407208	6.27E-09
G	A	0.01	0.8827766	0.1247383	1.34E-11
G	T	0.01	0.8827766	0.1247383	1.34E-11
A	T	0.01	0.8499022	0.1411178	5.56E-09
G	A	0.01	0.8827766	0.1247383	1.34E-11
A	G	0.01	0.8827766	0.1247383	1.34E-11
T	C	0.02	0.8301322	0.1221778	7.12E-11
A	G	0.02	0.8301322	0.1221778	7.12E-11
T	C	0.02	0.8301322	0.1221778	7.12E-11
C	G	0.02	0.8301322	0.1221778	7.12E-11
C	T	0.02	0.8301322	0.1221778	7.12E-11
C	T	0.01	0.8543107	0.1324577	5.17E-10
AG	A	0.02	0.8301322	0.1221778	7.12E-11
T	A	0.02	0.8301322	0.1221778	7.12E-11
A	G	0.02	0.8301322	0.1221778	7.12E-11
A	G	0.02	0.8500035	0.1155213	2.44E-12
A	AT	0.02	0.8301322	0.1221778	7.12E-11
C	T	0.02	-0.4989428	0.08392578	8.38E-09
G	A	0.02	0.4848077	0.07352954	2.94E-10
T	C	0.01	-0.7626625	0.1210946	1.32E-09
T	G	0.01	-0.786885	0.1172087	1.27E-10
G	T	0.01	-0.786885	0.1172087	1.27E-10
GA	G	0.01	-0.786885	0.1172087	1.27E-10
T	C	0.01	-0.786885	0.1172087	1.27E-10
A	G	0.02	-0.6751182	0.1107612	3.98E-09
A	G	0.02	-0.709001	0.1100601	5.92E-10
A	G	0.29	-0.1989853	0.0332262	6.80E-09
T	A	0.11	-0.2755553	0.04552742	4.66E-09
G	A	0.1	-0.2891027	0.04798764	5.42E-09
G	AATATCTCTGCCTGAC	0.01	-0.6948004	0.1140385	4.36E-09
G	A	0.04	0.2813161	0.04632801	4.19E-09
T	A	0.01	-0.7456689	0.123656	5.34E-09
C	T	0.05	-0.5140986	0.08686507	9.59E-09
G	A	0.44	0.143083	0.02384085	6.85E-09
G	A	0.1	-0.289584	0.04813327	5.71E-09
G	GAAGA	0.08	-0.4432325	0.06971717	8.66E-10
G	GAAGA	0.08	-0.5150646	0.08317299	2.91E-09
A	G	0.02	0.4331541	0.07117481	3.91E-09
G	A	0.01	0.4902277	0.0807072	4.16E-09
T	A	0.02	-0.4431518	0.07469229	8.90E-09

C	A	0.02	-0.5405824	0.08753273	2.55E-09
T	A	0.01	0.7326949	0.1221756	6.28E-09
T	C	0.01	-0.7415061	0.1169769	9.67E-10
C	T	0.03	-0.8291769	0.1664671	1.11E-06
G	A	0.04	-0.6525835	0.1428916	7.32E-06
A	T	0.24	-0.3084746	0.06728958	6.78E-06
AAG	A	0.32	-0.3039254	0.06694347	8.24E-06
G	T	0.01	1.019207	0.224411	8.18E-06
G	A	0.4	0.2494228	0.05422381	6.33E-06
C	T	0.27	-0.2853235	0.0600999	3.27E-06
C	A	0.31	-0.2653057	0.05835332	8.01E-06
C	A	0.36	-0.2617133	0.05652363	5.53E-06
G	C	0.37	-0.2607206	0.05614583	5.21E-06
C	G	0.09	0.4206444	0.09304375	8.96E-06
A	T	0.42	0.2528207	0.05553036	7.79E-06
AT	A	0.02	-1.114305	0.2146432	4.08E-07
C	T	0.18	-0.2937813	0.06408448	6.78E-06
CTG	C	0.17	-0.3451316	0.0750632	6.38E-06
T	G	0.14	0.3685782	0.07908127	4.83E-06
T	TTTTTC	0.05	0.5810628	0.1283855	8.76E-06
TTG	T	0.18	-0.3183724	0.07050189	9.16E-06
G	T	0.44	0.2569779	0.05505758	4.68E-06
G	A	0.48	0.2534256	0.05524366	6.69E-06
G	T	0.4	-0.2509288	0.05570064	9.60E-06
A	G	0.45	-0.2418645	0.05202378	5.08E-06
A	T	0.12	0.445648	0.08453981	2.76E-07
A	G	0.02	-1.027729	0.2258213	7.85E-06
G	A	0.35	0.2733401	0.05677176	2.40E-06
G	A	0.36	0.2571574	0.05693134	9.11E-06
C	T	0.35	0.2619004	0.05707862	6.66E-06
A	G	0.1	0.4075792	0.09063084	9.94E-06
A	G	0.11	0.4282122	0.0882133	2.00E-06
G	GC	0.13	0.389585	0.0808838	2.38E-06
C	G	0.08	0.4582262	0.1018538	9.86E-06
A	C	0.08	0.4582262	0.1018538	9.86E-06
A	G	0.08	0.4671165	0.1021022	7.06E-06
A	G	0.08	0.4615792	0.1002344	6.19E-06
C	G	0.09	0.4552163	0.09589452	3.27E-06
A	G	0.12	0.4167607	0.08371785	1.13E-06
C	T	0.06	-0.5822802	0.119608	1.88E-06
T	TTC	0.02	-1.001763	0.2068897	2.12E-06
C	T	0.28	0.2812689	0.06114595	6.33E-06
A	G	0.03	-0.7752739	0.1635358	3.37E-06
T	C	0.03	-0.7511194	0.1668882	9.78E-06
G	T	0.03	-0.7511194	0.1668882	9.78E-06
G	GA	0.11	-0.4192429	0.08767728	2.80E-06
C	T	0.22	-0.3160362	0.06577998	2.52E-06
C	T	0.21	-0.3259984	0.06573599	1.23E-06
C	A	0.22	-0.3111327	0.06545425	3.18E-06
C	T	0.21	-0.3209328	0.06570205	1.74E-06

C	T	0.01	-1.340532	0.2763669	2.04E-06
TCACACACACA	T	0.01	-1.114118	0.2441285	7.43E-06
C	T	0.04	0.6538936	0.1430374	7.17E-06
ACT	A	0.02	-0.8737598	0.1843869	3.40E-06
A	T	0.02	-0.8737598	0.1843869	3.40E-06
G	A	0.02	-0.8737598	0.1843869	3.40E-06
G	C	0.02	-0.8737598	0.1843869	3.40E-06
G	A	0.02	-0.8958966	0.1872667	2.77E-06
C	T	0.02	-0.8737598	0.1843869	3.40E-06
C	G	0.02	-0.8737598	0.1843869	3.40E-06
TGTGTGA	T	0.01	-1.24051	0.2669894	5.15E-06
T	A	0.25	-0.2928354	0.0647205	8.81E-06
A	AAACT	0.46	0.2521574	0.05463036	5.90E-06
C	CA	0.02	0.8859568	0.1900664	4.81E-06
C	A	0.03	-0.9101572	0.1704949	1.99E-07
T	C	0.03	0.7280739	0.1590346	6.97E-06
G	C	0.03	0.7610474	0.1641202	5.36E-06
C	T	0.02	-0.8781921	0.1907686	6.23E-06
TC	T	0.02	-0.9402307	0.2067514	7.97E-06
A	T	0.02	-0.9402307	0.2067514	7.97E-06
T	C	0.07	-0.500575	0.1063051	3.89E-06
T	C	0.11	-0.4225834	0.09135573	5.64E-06
G	C	0.11	-0.4156611	0.09224556	9.56E-06
C	G	0.11	-0.416465	0.09211475	8.95E-06
A	G	0.11	-0.4167091	0.09199866	8.63E-06
CT	C	0.17	-0.328825	0.06862107	2.67E-06
G	T	0.44	-0.257189	0.05616726	6.94E-06
A	G	0.5	-0.2467826	0.05432013	8.13E-06
T	TA	0.02	-0.8049883	0.1754476	6.66E-06
G	A	0.02	-1.03112	0.2203441	4.44E-06
G	A	0.21	0.3118021	0.0692956	9.83E-06
T	A	0.01	-1.254929	0.2750089	7.44E-06
C	T	0.29	0.279326	0.06169191	8.69E-06
T	A	0.29	0.2834892	0.06164849	6.37E-06
C	A	0.29	0.2834892	0.06164849	6.37E-06
T	A	0.29	0.2787328	0.06175961	9.26E-06
GA	G	0.08	-0.4842539	0.1048318	5.80E-06
A	G	0.34	-0.274832	0.05718296	2.50E-06
C	G	0.33	-0.2721042	0.05748326	3.48E-06
C	CTGTGTG	0.15	-0.4063292	0.08301433	1.66E-06
A	G	0.05	0.6089889	0.1331344	7.09E-06
A	G	0.01	-1.060795	0.2316834	6.95E-06
A	G	0.03	0.6927259	0.1467792	3.71E-06
C	T	0.22	-0.1823547	0.02990926	3.93E-09
C	G	0.22	-0.1801024	0.02966296	4.51E-09
T	G	0.22	-0.1801024	0.02966296	4.51E-09
A	G	0.22	-0.1801024	0.02966296	4.51E-09
C	T	0.22	-0.1801024	0.02966296	4.51E-09
G	A	0.22	-0.1801024	0.02966296	4.51E-09
T	C	0.22	-0.1821754	0.02997928	4.39E-09

T	C	0.22	-0.1766693	0.02971458	8.85E-09
A	G	0.22	-0.1766693	0.02971458	8.85E-09
C	A	0.02	-0.5909385	0.0957849	2.68E-09
C	T	0.01	-0.6592732	0.1060366	2.07E-09
T	G	0.01	-0.8915745	0.1463025	4.31E-09
G	T	0.01	-0.8915745	0.1463025	4.31E-09
GA	G	0.01	-0.8915745	0.1463025	4.31E-09
T	C	0.01	-0.8915745	0.1463025	4.31E-09
A	G	0.01	-0.8404597	0.1376598	4.05E-09
C	T	0.02	-0.6776924	0.1108437	4.37E-09
C	T	0.15	0.2506394	0.03990854	1.46E-09
G	T	0.14	0.1885386	0.03181351	9.78E-09
C	CTAT	0.13	0.1980869	0.03273641	5.03E-09
G	A	0.02	0.4483076	0.07498804	7.48E-09
C	A	0.03	-0.5111502	0.08082132	1.39E-09
C	A	0.03	-0.4656804	0.07635416	4.00E-09
GGTGTGTGTGTGT	G	0.01	-1.183082	0.1947865	4.45E-09
A	G	0.01	-0.8071462	0.1352027	8.34E-09
T	C	0.37	-0.2041698	0.0342297	7.98E-09
G	A	0.35	-0.2039866	0.03371358	5.04E-09
T	G	0.35	-0.2006397	0.0337176	8.60E-09
A	AC	0.03	0.3920625	0.065593	7.48E-09
A	G	0.03	0.3920625	0.065593	7.48E-09
TGC	T	0.03	0.3920625	0.065593	7.48E-09
C	G	0.03	0.3920625	0.065593	7.48E-09
C	CTGTGTG	0.15	-0.1950176	0.03210124	5.18E-09
C	T	0.15	-0.1701078	0.03752757	8.31E-06
C	CTG	0.19	-0.1432446	0.03170763	8.89E-06
A	G	0.19	-0.141496	0.03138972	9.28E-06
C	G	0.21	-0.1495868	0.03284134	7.54E-06
C	A	0.03	0.3854433	0.08236596	4.32E-06
T	C	0.03	0.3854433	0.08236596	4.32E-06
G	A	0.01	0.5017595	0.111716	9.97E-06
C	T	0.06	0.2623355	0.05830994	9.64E-06
TG	T	0.04	-0.307508	0.06805389	8.85E-06
TA	T	0.29	-0.1288988	0.02866695	9.75E-06
A	C	0.23	0.1386917	0.03043448	7.47E-06
G	C	0.04	0.3109662	0.06923729	9.97E-06
G	T	0.01	0.5497302	0.1211167	8.10E-06
CTG	C	0.12	-0.1984692	0.04297661	5.70E-06
G	GTC	0.15	0.180027	0.03919076	6.35E-06
T	C	0.3	-0.1258244	0.02777354	8.40E-06
A	G	0.2	0.1456764	0.03107808	4.17E-06
G	A	0.16	0.1562019	0.03431903	7.66E-06
T	C	0.16	0.1582407	0.03441949	6.25E-06
G	C	0.13	-0.1688624	0.0369634	7.11E-06
G	A	0.18	-0.1509188	0.0318532	3.32E-06
A	C	0.13	-0.1688624	0.0369634	7.11E-06
G	A	0.13	-0.1688624	0.0369634	7.11E-06
T	A	0.13	-0.1688624	0.0369634	7.11E-06

C	T	0.13	-0.1688624	0.0369634	7.11E-06
A	G	0.13	-0.1689079	0.03722049	8.13E-06
T	C	0.13	-0.1689079	0.03722049	8.13E-06
ATAT	A	0.13	-0.1688624	0.0369634	7.11E-06
T	A	0.13	-0.1688624	0.0369634	7.11E-06
C	T	0.13	-0.1688624	0.0369634	7.11E-06
GAAC	G	0.18	-0.1503113	0.03216249	4.44E-06
C	T	0.17	-0.1471866	0.03221647	7.10E-06
C	T	0.18	-0.1450299	0.03193427	8.00E-06
T	G	0.14	-0.1621221	0.03597145	9.31E-06
C	A	0.13	-0.1633639	0.0360389	8.31E-06
A	G	0.14	-0.166887	0.03700723	9.21E-06
T	TAAA	0.05	0.2964039	0.06000718	1.31E-06
G	T	0.37	-0.1363712	0.02569724	2.23E-07
A	G	0.07	0.2447015	0.05245714	4.62E-06
TTTG	T	0.44	-0.1193891	0.02650697	9.43E-06
C	T	0.48	-0.1336583	0.02605638	5.29E-07
T	C	0.49	-0.1227215	0.02626468	4.46E-06
G	A	0.24	-0.1649445	0.02991274	7.87E-08
G	T	0.24	-0.1667079	0.02977918	5.12E-08
A	C	0.24	-0.1633148	0.03005087	1.18E-07
C	T	0.24	-0.1649445	0.02991274	7.87E-08
C	T	0.24	-0.1666353	0.02989808	5.81E-08
A	G	0.24	-0.1667079	0.02977918	5.12E-08
G	A	0.24	-0.1650454	0.02991074	7.72E-08
G	T	0.24	-0.170746	0.02974906	2.46E-08
T	C	0.24	-0.1667079	0.02977918	5.12E-08
A	T	0.24	-0.1650009	0.02979325	6.96E-08
C	A	0.24	-0.1650009	0.02979325	6.96E-08
T	C	0.24	-0.1571763	0.03011544	3.43E-07
C	G	0.24	-0.1649445	0.02991274	7.87E-08
T	A	0.24	-0.1667079	0.02977918	5.12E-08
G	A	0.24	-0.1649445	0.02991274	7.87E-08
C	G	0.24	-0.1633148	0.03005087	1.18E-07
G	T	0.24	-0.1667079	0.02977918	5.12E-08
A	G	0.24	-0.1650454	0.02991074	7.72E-08
A	C	0.24	-0.163381	0.02992607	1.04E-07
T	C	0.24	-0.1721744	0.02997234	2.40E-08
A	G	0.24	-0.1635289	0.0299245	1.01E-07
G	A	0.24	-0.166489	0.02989723	5.96E-08
T	A	0.24	-0.1667079	0.02977918	5.12E-08
A	G	0.24	-0.1667079	0.02977918	5.12E-08
A	G	0.24	-0.166489	0.02989723	5.96E-08
G	A	0.24	-0.1650454	0.02991074	7.72E-08
G	A	0.24	-0.1649632	0.02979474	7.02E-08
T	C	0.24	-0.1633148	0.03005087	1.18E-07
C	A	0.24	-0.1649445	0.02991274	7.87E-08
C	T	0.24	-0.1667079	0.02977918	5.12E-08
G	A	0.24	-0.1667079	0.02977918	5.12E-08
T	C	0.24	-0.1667079	0.02977918	5.12E-08

T	C	0.24	-0.173904	0.02984185	1.55E-08
C	T	0.24	-0.1702137	0.02987166	3.05E-08
G	T	0.23	-0.1576114	0.03035173	3.89E-07
T	C	0.23	-0.1542808	0.03021226	5.91E-07
G	A	0.23	-0.1549981	0.03017079	5.10E-07
A	G	0.22	-0.1425045	0.03110589	6.71E-06
A	T	0.24	-0.1615422	0.030071	1.61E-07
T	A	0.24	-0.1633148	0.03005087	1.18E-07
G	T	0.24	-0.1633148	0.03005087	1.18E-07
A	T	0.24	-0.1631862	0.02992646	1.07E-07
G	A	0.24	-0.1631862	0.02992646	1.07E-07
A	C	0.24	-0.1650454	0.02991074	7.72E-08
C	T	0.24	-0.1667079	0.02977918	5.12E-08
G	C	0.23	-0.1711343	0.03033289	4.09E-08
G	A	0.23	-0.1653665	0.03022197	9.75E-08
G	A	0.23	-0.1534749	0.03039761	7.79E-07
A	G	0.23	-0.1504307	0.03095473	1.90E-06
C	T	0.24	-0.1652957	0.03003747	8.33E-08
A	G	0.24	-0.1607998	0.03018358	2.01E-07
G	A	0.24	-0.1667079	0.02977918	5.12E-08
A	G	0.24	-0.1650454	0.02991074	7.72E-08
G	A	0.24	-0.1647405	0.03003479	9.12E-08
G	A	0.24	-0.1650454	0.02991074	7.72E-08
T	C	0.24	-0.1684743	0.03000039	4.68E-08
C	A	0.24	-0.1667079	0.02977918	5.12E-08
G	GA	0.21	-0.1541806	0.03213481	2.52E-06
CTT	C	0.22	-0.1575416	0.0297341	2.32E-07
G	A	0.22	-0.1585412	0.03032943	3.29E-07
A	C	0.18	-0.1658393	0.0325867	6.43E-07
G	GAACTGCAAATC	0.16	-0.162886	0.03608328	9.02E-06
A	C	0.18	-0.1654349	0.03274328	7.66E-07
C	A	0.18	-0.1635426	0.03277842	1.03E-06
C	T	0.17	-0.1606924	0.03370787	2.91E-06
T	A	0.18	-0.1689679	0.03344133	7.65E-07
G	A	0.18	-0.1689679	0.03344133	7.65E-07
C	T	0.18	-0.1583103	0.0336445	3.85E-06
T	C	0.18	-0.1689679	0.03344133	7.65E-07
G	A	0.18	-0.1689679	0.03344133	7.65E-07
A	G	0.18	-0.1689679	0.03344133	7.65E-07
T	C	0.18	-0.1689679	0.03344133	7.65E-07
T	C	0.18	-0.1717001	0.03344635	5.19E-07
T	G	0.18	-0.1689679	0.03344133	7.65E-07
G	A	0.17	-0.1735084	0.03375348	5.02E-07
A	G	0.17	-0.1716588	0.03379224	6.72E-07
G	A	0.17	-0.1696592	0.03383404	9.18E-07
G	A	0.17	-0.1716588	0.03379224	6.72E-07
C	T	0.17	-0.1751332	0.03384372	4.25E-07
C	T	0.17	-0.1724467	0.03370476	5.64E-07
C	T	0.17	-0.1697811	0.03370234	8.22E-07
G	C	0.17	-0.1714147	0.03378169	6.91E-07

T	C	0.18	-0.1636865	0.03325948	1.42E-06
C	T	0.17	-0.1664438	0.03338769	1.05E-06
T	C	0.05	-0.2767284	0.05952752	4.97E-06
C	CATCT	0.06	-0.248097	0.05318661	4.62E-06
C	T	0.06	0.2668735	0.05524474	2.17E-06
T	G	0.02	0.4465336	0.09876292	8.75E-06
GGT	G	0.04	-0.3128575	0.06793946	6.04E-06
C	G	0.18	0.1533159	0.03372851	7.86E-06
G	T	0.48	0.124119	0.02662119	4.67E-06
G	A	0.02	0.4231008	0.09380216	9.17E-06
A	G	0.2	-0.1487161	0.03262113	7.41E-06
A	G	0.31	-0.1326246	0.02800094	3.34E-06
A	G	0.28	-0.1298059	0.02841134	7.09E-06
A	G	0.28	-0.1298059	0.02841134	7.09E-06
C	T	0.23	-0.1492725	0.03182431	4.12E-06
AGT	A	0.23	-0.1509505	0.03256713	5.28E-06
TC	T	0.23	-0.1473812	0.03184365	5.44E-06
G	A	0.23	-0.15241	0.03206552	3.10E-06
C	T	0.23	-0.1469998	0.03158091	4.84E-06
T	A	0.23	-0.1403746	0.03082525	7.58E-06
C	A	0.03	0.3650348	0.08118426	9.75E-06
G	A	0.05	0.289574	0.06325444	6.81E-06
G	C	0.04	-0.3218522	0.07033719	6.88E-06
A	G	0.04	0.3290619	0.06833712	2.33E-06
TTGTGTGTGTGTGTG	T	0.03	0.356161	0.07801327	7.20E-06
C	T	0.08	-0.2095655	0.0462162	8.25E-06
T	C	0.1	-0.1962922	0.04331651	8.36E-06
C	G	0.06	0.2896056	0.0563205	4.98E-07
A	G	0.45	0.1176698	0.02597064	8.39E-06
G	A	0.45	0.1215571	0.0259175	4.12E-06
G	T	0.47	0.1180485	0.02613722	8.93E-06
G	A	0.45	0.1194274	0.02599258	6.32E-06
G	C	0.17	0.1611511	0.03529275	7.18E-06
T	A	0.17	0.1591182	0.03526572	9.11E-06
C	T	0.15	0.1672898	0.03567401	4.14E-06
T	A	0.16	0.1638351	0.03624007	8.76E-06
C	CGT	0.15	0.1831469	0.03906922	4.17E-06
G	A	0.06	0.2575699	0.05557828	5.30E-06
C	T	0.06	0.2575699	0.05557828	5.30E-06
C	G	0.06	0.2662834	0.05581455	2.86E-06
A	G	0.06	0.2662834	0.05581455	2.86E-06
C	T	0.06	0.2662834	0.05581455	2.86E-06
G	T	0.06	0.2662834	0.05581455	2.86E-06
T	C	0.06	0.2662834	0.05581455	2.86E-06
AAC	A	0.06	0.2434353	0.05413859	9.75E-06
A	G	0.06	0.2662834	0.05581455	2.86E-06
A	C	0.06	0.2662834	0.05581455	2.86E-06
A	T	0.06	0.2612773	0.05615723	4.88E-06
T	C	0.06	0.2493358	0.05467517	7.36E-06
C	T	0.06	0.2662834	0.05581455	2.86E-06

G	T	0.06	0.2662834	0.05581455	2.86E-06
T	C	0.06	0.2662834	0.05581455	2.86E-06
T	C	0.06	0.2662834	0.05581455	2.86E-06
C	T	0.06	0.2662834	0.05581455	2.86E-06
A	G	0.06	0.2662834	0.05581455	2.86E-06
T	G	0.06	0.2612307	0.05608462	4.77E-06
A	G	0.06	0.2662834	0.05581455	2.86E-06
G	A	0.06	0.2662834	0.05581455	2.86E-06
G	A	0.06	0.2619528	0.05607778	4.49E-06
T	C	0.03	0.3902367	0.07744941	8.19E-07
C	T	0.03	0.3743122	0.07931033	3.61E-06
A	G	0.03	0.3594179	0.07527014	2.80E-06
CAATT	C	0.11	0.1970015	0.04170341	3.54E-06
C	G	0.11	0.1927037	0.04230008	7.52E-06
G	A	0.11	0.1978293	0.0429413	5.99E-06
G	T	0.11	0.1974486	0.0423754	4.73E-06
C	T	0.11	0.1880097	0.04181732	9.77E-06
C	T	0.11	0.1936951	0.04201867	5.91E-06
G	A	0.11	0.1928337	0.04188475	6.07E-06
G	A	0.11	0.1928337	0.04188475	6.07E-06
C	T	0.11	0.1928337	0.04188475	6.07E-06
C	T	0.11	0.1928337	0.04188475	6.07E-06
C	G	0.11	0.1928337	0.04188475	6.07E-06
T	C	0.02	-0.7623739	0.1654241	5.96E-06
C	T	0.14	-0.3352849	0.07048571	3.06E-06
A	ATTATTTAT	0.05	-0.5304803	0.1136883	4.61E-06
G	C	0.05	-0.4911928	0.1072262	6.74E-06
A	G	0.05	-0.4911928	0.1072262	6.74E-06
C	T	0.01	-1.048406	0.2318348	8.73E-06
TACACAC	T	0.05	-0.5347912	0.1141685	4.25E-06
G	T	0.15	-0.304461	0.06586825	5.61E-06
A	G	0.14	-0.3127733	0.0675462	5.40E-06
A	C	0.02	-0.9125224	0.1901055	2.51E-06
G	C	0.01	-0.9887382	0.2140137	5.66E-06
G	A	0.02	-0.9029444	0.1939283	4.82E-06
G	T	0.01	-1.008004	0.2201782	6.82E-06
G	A	0.01	-1.008004	0.2201782	6.82E-06
G	GACACAC	0.12	-0.3533979	0.07649943	5.67E-06
C	T	0.01	-0.9699445	0.2117191	6.73E-06
G	GT	0.25	-0.2607642	0.05743843	8.08E-06
A	T	0.5	0.2165155	0.04596784	3.78E-06
C	T	0.46	-0.2161527	0.0477293	8.48E-06
G	A	0.01	-0.8619835	0.1858752	5.24E-06
T	A	0.02	-0.7513134	0.157158	2.74E-06
C	CA	0.02	-0.7794208	0.1619466	2.36E-06
C	T	0.02	-0.7818272	0.1550559	8.07E-07
C	T	0.02	-0.8267823	0.1641908	8.34E-07
G	A	0.02	-0.7818272	0.1550559	8.07E-07
G	A	0.02	-0.853373	0.1639834	3.70E-07
G	A	0.02	-0.8194847	0.1735693	3.59E-06

C	G	0.02	-0.7794208	0.1619466	2.36E-06
C	A	0.02	-0.7996754	0.1570201	6.34E-07
T	C	0.02	-0.7818272	0.1550559	8.07E-07
T	C	0.02	-0.7818272	0.1550559	8.07E-07
C	T	0.02	-0.7818272	0.1550559	8.07E-07
A	G	0.02	-0.7794208	0.1619466	2.36E-06
T	A	0.02	-0.7818272	0.1550559	8.07E-07
G	A	0.02	-0.7794208	0.1619466	2.36E-06
G	A	0.02	-0.7776625	0.1573023	1.29E-06
C	T	0.02	-0.7794208	0.1619466	2.36E-06
C	T	0.02	-0.7794208	0.1619466	2.36E-06
G	A	0.03	-0.6741359	0.1418585	3.12E-06
T	C	0.03	-0.6741359	0.1418585	3.12E-06
A	T	0.03	-0.672638	0.1435431	4.21E-06
A	T	0.03	-0.672638	0.1435431	4.21E-06
T	C	0.03	-0.672638	0.1435431	4.21E-06
C	T	0.03	-0.672638	0.1435431	4.21E-06
C	T	0.03	-0.672638	0.1435431	4.21E-06
G	A	0.03	-0.672638	0.1435431	4.21E-06
CTGTT	C	0.03	-0.672638	0.1435431	4.21E-06
C	A	0.03	-0.672638	0.1435431	4.21E-06
G	A	0.03	-0.672638	0.1435431	4.21E-06
A	G	0.03	-0.6322789	0.1406117	9.77E-06
T	A	0.03	-0.6322789	0.1406117	9.77E-06
C	T	0.03	-0.6322789	0.1406117	9.77E-06
A	G	0.03	-0.6322789	0.1406117	9.77E-06
C	T	0.03	-0.6322789	0.1406117	9.77E-06
C	A	0.03	-0.6322789	0.1406117	9.77E-06
G	C	0.03	-0.6322789	0.1406117	9.77E-06
C	T	0.04	-0.5412887	0.1198074	8.89E-06
G	A	0.04	-0.5412887	0.1198074	8.89E-06
G	A	0.28	-0.2403027	0.05059846	3.16E-06
G	A	0.02	-0.9596431	0.1831417	3.11E-07
G	A	0.01	-1.104194	0.2118992	3.58E-07
C	T	0.01	-0.9429159	0.2084015	8.64E-06
T	C	0.02	-0.7418758	0.1640836	8.76E-06
G	A	0.02	-1.04104	0.1938718	1.64E-07
A	G	0.02	-0.854589	0.1723786	1.21E-06
G	A	0.01	-1.099435	0.2327982	3.57E-06
T	C	0.25	-0.2425145	0.05356447	8.53E-06
G	T	0.22	-0.2535017	0.05432709	4.60E-06
T	C	0.13	-0.3429026	0.07098348	2.18E-06
C	T	0.19	0.2770299	0.06144802	9.28E-06
TAGGGAAA	T	0.04	-0.5775602	0.127363	8.26E-06
A	G	0.04	-0.5616517	0.1213306	5.44E-06
G	A	0.04	-0.5733248	0.1220026	3.97E-06
C	T	0.04	-0.5919489	0.1239428	2.80E-06
G	A	0.04	-0.5616517	0.1213306	5.44E-06
C	CAA	0.02	-0.7083582	0.1572237	9.40E-06
A	G	0.01	-1.142495	0.2100133	1.15E-07

T	C	0.04	-0.565403	0.1160872	1.81E-06
A	C	0.15	0.299704	0.06551179	6.92E-06
T	G	0.15	0.292453	0.0648872	9.33E-06
CTG	C	0.03	-0.6774657	0.1413285	2.58E-06
C	T	0.01	-1.090975	0.2342918	4.81E-06
T	C	0.01	-1.118284	0.2358371	3.27E-06
C	A	0.01	-1.060046	0.2216408	2.71E-06
T	C	0.01	-1.060046	0.2216408	2.71E-06
G	A	0.01	-1.060046	0.2216408	2.71E-06
C	T	0.01	-1.060046	0.2216408	2.71E-06
T	G	0.03	-0.6422204	0.1415204	8.15E-06
T	G	0.08	-0.4192096	0.09042977	5.28E-06
A	G	0.08	-0.4072693	0.08880743	6.59E-06
A	G	0.47	-0.2159568	0.04745192	7.69E-06
TGTC	T	0.14	-0.2950576	0.06503922	8.20E-06
G	A	0.14	-0.2980686	0.06518381	6.99E-06
G	A	0.07	-0.4572713	0.09572295	2.79E-06
GA	G	0.02	-0.9183502	0.1803087	6.33E-07
C	T	0.02	-0.8422461	0.1856985	8.23E-06
C	A	0.02	-0.895461	0.1854446	2.20E-06
T	G	0.09	-0.3845438	0.08381361	6.53E-06
A	AT	0.04	0.5521955	0.1221871	8.84E-06
A	C	0.03	-0.6638082	0.1476983	9.86E-06
G	A	0.02	-0.7816756	0.1716624	7.61E-06
GAAGAAAGAAAGA	G	0.08	-0.4442917	0.08971669	1.24E-06
C	T	0.22	-0.2698223	0.05657086	2.88E-06
C	T	0.22	-0.2749302	0.05654217	1.88E-06
C	A	0.22	-0.2740937	0.0562553	1.80E-06
C	T	0.22	-0.2725225	0.05653207	2.28E-06
G	A	0.45	-0.2222954	0.04824619	5.99E-06
G	C	0.42	-0.22167	0.04744748	4.49E-06
T	C	0.04	0.6370563	0.1294115	1.42E-06
T	TCACACA	0.05	-0.5319406	0.1096803	1.99E-06
A	G	0.43	-0.2042552	0.04504895	8.29E-06
C	A	0.03	0.6649208	0.1391839	2.78E-06
T	TTGTG	0.01	-0.9998389	0.2093853	2.81E-06
G	A	0.01	-0.9389351	0.2007101	4.37E-06
G	A	0.02	-0.7876326	0.1700907	5.40E-06
G	A	0.02	-0.905767	0.1976532	6.69E-06
C	T	0.02	-0.7763209	0.1636142	3.23E-06
C	T	0.02	-0.7763209	0.1636142	3.23E-06
C	T	0.02	-0.7763209	0.1636142	3.23E-06
C	T	0.31	0.2432176	0.05109148	3.01E-06
G	C	0.02	-0.7458343	0.1583104	3.76E-06
C	T	0.01	-1.037908	0.2294291	8.67E-06
A	G	0.01	-1.091976	0.2281409	2.67E-06
T	TTGTGTGTGTG	0.03	-0.6163627	0.136165	8.56E-06
GA	G	0.01	-1.043583	0.2155857	2.08E-06
G	T	0.02	-0.894899	0.189768	3.68E-06
A	C	0.02	-0.894899	0.189768	3.68E-06

T	C	0.01	-0.9651039	0.2140508	9.26E-06
AT	A	0.32	-0.2501658	0.05056943	1.27E-06
C	T	0.36	-0.2427695	0.04957471	1.60E-06
C	A	0.01	-1.304076	0.2265768	2.28E-08
C	CAT	0.02	-0.8488891	0.1885282	9.51E-06
CAA	C	0.01	-1.038912	0.1970395	2.65E-07
C	T	0.02	-0.8236871	0.1827729	9.35E-06
G	A	0.08	-0.3809946	0.08397	8.17E-06
C	CTG	0.02	-0.7421644	0.1636295	8.23E-06
G	T	0.08	-0.439822	0.08650807	6.61E-07
G	GTGGT	0.02	-0.8437702	0.1697894	1.14E-06
C	G	0.02	-0.7427805	0.1575757	3.71E-06
C	T	0.02	-0.9149492	0.1745282	3.07E-07
C	T	0.44	0.2071887	0.0452314	6.75E-06
T	C	0.11	-0.3388177	0.07484162	8.54E-06
T	C	0.01	-0.6821949	0.112356	4.25E-09
C	T	0.01	0.9229275	0.1263676	3.40E-12
T	G	0.01	0.9229275	0.1263676	3.40E-12
T	TC	0.01	0.7844701	0.1091943	7.01E-12
A	G	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
A	T	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
C	T	0.01	0.7844701	0.1091943	7.01E-12
C	T	0.01	0.7844701	0.1091943	7.01E-12
T	C	0.01	0.7844701	0.1091943	7.01E-12
C	G	0.01	0.7844701	0.1091943	7.01E-12
G	C	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
T	C	0.01	0.7844701	0.1091943	7.01E-12
AC	A	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
A	G	0.01	0.7844701	0.1091943	7.01E-12
C	T	0.01	0.7844701	0.1091943	7.01E-12
C	T	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.7844701	0.1091943	7.01E-12
G	A	0.01	0.747574	0.1140898	2.88E-10
G	A	0.01	0.7844701	0.1091943	7.01E-12
G	T	0.01	0.7844701	0.1091943	7.01E-12
A	T	0.01	0.7527309	0.1237195	3.92E-09
G	A	0.01	0.7844701	0.1091943	7.01E-12
A	G	0.01	0.7844701	0.1091943	7.01E-12
T	C	0.02	0.7289805	0.1071068	6.64E-11
A	G	0.02	0.7289805	0.1071068	6.64E-11
T	C	0.02	0.7289805	0.1071068	6.64E-11
C	G	0.02	0.7289805	0.1071068	6.64E-11
C	T	0.02	0.7289805	0.1071068	6.64E-11
C	T	0.01	0.7324094	0.1160125	1.11E-09
AG	A	0.02	0.7289805	0.1071068	6.64E-11

T	A	0.02	0.7289805	0.1071068	6.64E-11
A	G	0.02	0.7289805	0.1071068	6.64E-11
T	TG	0.01	0.7010825	0.1169915	6.44E-09
A	G	0.02	0.7783891	0.1008521	2.60E-13
A	AT	0.02	0.7289805	0.1071068	6.64E-11
C	A	0.01	-0.7308679	0.1196504	3.43E-09
A	AT	0.02	0.9747631	0.1587329	3.61E-09
T	C	0.04	0.2121779	0.0351893	5.32E-09
T	C	0.04	0.2237677	0.03579182	1.58E-09
G	A	0.05	-0.4594434	0.07363659	1.67E-09
T	A	0.01	0.7725271	0.1239764	1.74E-09
G	A	0.01	-1.188267	0.2638748	9.48E-06
TTC	T	0.01	-1.05556	0.2347167	9.73E-06
G	A	0.09	-0.4178174	0.09286192	9.64E-06
G	A	0.01	1.023166	0.2269306	9.25E-06
G	A	0.01	-1.078969	0.2297359	4.01E-06
G	A	0.03	-0.7443489	0.1637556	7.87E-06
C	T	0.15	-0.3571195	0.07337776	1.84E-06
GA	G	0.11	-0.3752427	0.08022694	4.37E-06
G	A	0.2	-0.2966836	0.06489241	7.00E-06
G	A	0.02	-1.001419	0.2110406	3.22E-06
C	G	0.23	0.2801316	0.06204057	8.99E-06
C	G	0.23	0.2801316	0.06204057	8.99E-06
GT	G	0.01	1.100626	0.2430978	8.52E-06
A	G	0.01	-1.100455	0.2325762	3.42E-06
G	C	0.01	-1.049966	0.2287592	6.47E-06
A	G	0.15	-0.3318874	0.07384674	9.85E-06
C	T	0.15	-0.3433141	0.07368718	4.75E-06
C	T	0.08	-0.4914117	0.09773983	8.63E-07
C	CT	0.08	-0.4306643	0.09299888	5.39E-06
G	A	0.03	0.741383	0.1587442	4.51E-06
G	A	0.03	0.6616023	0.1451216	7.42E-06
T	C	0.02	-0.9135179	0.1994086	6.72E-06
C	A	0.01	-1.219279	0.2582491	3.58E-06
C	A	0.01	-1.096988	0.2198338	1.03E-06
T	C	0.01	-1.096988	0.2198338	1.03E-06
T	A	0.01	-1.096988	0.2198338	1.03E-06
T	C	0.01	-1.101084	0.243709	8.88E-06
G	A	0.01	-1.101084	0.243709	8.88E-06
C	T	0.01	-1.101084	0.243709	8.88E-06
T	C	0.01	-1.101084	0.243709	8.88E-06
C	T	0.01	-1.138008	0.2514626	8.59E-06
C	T	0.02	-0.9252714	0.1937712	2.81E-06
C	T	0.24	0.2740973	0.05932901	5.66E-06
C	A	0.37	-0.2340248	0.05142716	7.69E-06
G	A	0.37	-0.2358333	0.05146813	6.69E-06
A	T	0.37	-0.2316878	0.05155832	9.88E-06
T	G	0.37	-0.2358333	0.05146813	6.69E-06
G	A	0.37	-0.2353465	0.05153646	7.17E-06
G	A	0.37	-0.2380292	0.05125594	5.08E-06

C	T	0.37	-0.2398032	0.0514332	4.68E-06
A	G	0.37	-0.2317361	0.05154743	9.80E-06
G	T	0.37	-0.2325527	0.0514713	8.88E-06
T	C	0.32	-0.2387657	0.05203238	6.50E-06
A	C	0.37	-0.231463	0.05151046	9.89E-06
C	G	0.36	-0.2311684	0.05097979	8.26E-06
C	T	0.36	-0.2479088	0.05178524	2.65E-06
C	T	0.36	-0.2396927	0.0518554	5.60E-06
C	T	0.35	-0.2456117	0.05181956	3.30E-06
G	A	0.36	-0.2323345	0.05105991	7.71E-06
T	C	0.36	-0.2468566	0.05183115	2.97E-06
G	A	0.36	-0.2479088	0.05178524	2.65E-06
G	A	0.36	-0.2479088	0.05178524	2.65E-06
T	C	0.36	-0.2548103	0.05158511	1.31E-06
T	C	0.36	-0.2510903	0.05161774	1.86E-06
T	G	0.31	-0.2626757	0.05336279	1.42E-06
G	A	0.36	-0.2502003	0.0517706	2.15E-06
G	T	0.36	-0.2458244	0.05189661	3.34E-06
G	C	0.36	-0.25343	0.05177901	1.62E-06
T	C	0.36	-0.2473886	0.05182884	2.83E-06
C	T	0.36	-0.251367	0.05174904	1.92E-06
A	T	0.36	-0.251367	0.05174904	1.92E-06
T	C	0.36	-0.251367	0.05174904	1.92E-06
T	A	0.36	-0.25638	0.05193001	1.32E-06
C	T	0.37	-0.2339685	0.05162614	8.35E-06
C	T	0.44	-0.2286181	0.049343	5.33E-06
C	T	0.36	-0.2559377	0.05201413	1.43E-06
C	T	0.35	-0.2521009	0.05113615	1.37E-06
T	TG	0.37	-0.2428272	0.05225762	5.02E-06
A	G	0.37	-0.2483113	0.05209624	2.92E-06
T	C	0.37	-0.2503774	0.05181318	2.16E-06
A	G	0.37	-0.2503774	0.05181318	2.16E-06
T	C	0.37	-0.2482574	0.05187795	2.68E-06
G	A	0.37	-0.246478	0.05196056	3.24E-06
G	A	0.37	-0.2456165	0.05205114	3.63E-06
A	G	0.37	-0.2503774	0.05181318	2.16E-06
C	T	0.37	-0.2503774	0.05181318	2.16E-06
A	G	0.37	-0.2569159	0.05178244	1.18E-06
C	T	0.37	-0.2503774	0.05181318	2.16E-06
T	G	0.37	-0.2407986	0.05203934	5.48E-06
A	C	0.37	-0.2407986	0.05203934	5.48E-06
C	T	0.37	-0.2404115	0.05199481	5.56E-06
G	C	0.37	-0.2445707	0.0518521	3.66E-06
T	G	0.37	-0.2404115	0.05199481	5.56E-06
G	A	0.37	-0.2336489	0.05196895	9.78E-06
C	A	0.02	0.8057813	0.1771536	7.77E-06
C	A	0.02	-0.7836699	0.173071	8.50E-06
T	C	0.02	-0.8997117	0.196544	6.83E-06
C	A	0.02	-0.9973067	0.2177465	6.75E-06
C	T	0.02	-0.8716674	0.1886849	5.66E-06

A	T	0.06	0.526518	0.1152716	7.14E-06
G	C	0.02	-0.9049517	0.1871474	2.13E-06
T	C	0.01	1.12613	0.2435535	5.56E-06
T	G	0.01	1.087361	0.2267522	2.56E-06
G	T	0.01	1.087361	0.2267522	2.56E-06
A	G	0.02	-0.7859015	0.1694209	5.20E-06
T	C	0.02	-0.8370493	0.1732244	2.16E-06
T	C	0.02	-0.8136255	0.1737117	4.25E-06
C	CT	0.2	-0.305625	0.06606966	5.51E-06
C	G	0.08	-0.4509396	0.09794371	6.07E-06
G	T	0.1	0.3962515	0.08776501	9.00E-06
T	A	0.04	-0.6444862	0.1413837	7.43E-06
G	T	0.13	0.3535033	0.07759744	7.53E-06
A	G	0.14	0.3470387	0.07678316	8.81E-06
C	T	0.13	0.378816	0.07787302	1.86E-06
C	T	0.13	0.378816	0.07787302	1.86E-06
G	ATGGATAGGTGGAT	0.02	0.7860291	0.1747034	9.64E-06
A	T	0.03	-0.7612236	0.1659786	6.57E-06
A	G	0.34	0.2501305	0.05543937	9.13E-06
G	T	0.02	-0.7935784	0.1756335	8.87E-06
AACTTCGAAACTGAC	A	0.02	-0.8231835	0.177198	5.04E-06
A	G	0.22	-0.290785	0.0637906	7.43E-06
T	C	0.01	-1.00864	0.2023464	1.06E-06
T	C	0.01	-1.00864	0.2023464	1.06E-06
CCACACACACA	C	0.01	-0.93198	0.2049948	7.84E-06
C	T	0.01	-1.014294	0.2070716	1.59E-06
A	G	0.04	0.7105311	0.1394506	6.25E-07
G	T	0.09	-0.4210709	0.09080941	5.24E-06
T	G	0.09	-0.4210709	0.09080941	5.24E-06
C	T	0.09	-0.4175242	0.09146359	7.22E-06
G	T	0.09	-0.4210709	0.09080941	5.24E-06
G	A	0.09	-0.4210709	0.09080941	5.24E-06
A	T	0.09	-0.4210709	0.09080941	5.24E-06
G	A	0.09	-0.4210709	0.09080941	5.24E-06
AAAC	A	0.09	-0.4316764	0.09100405	3.24E-06
G	A	0.09	-0.4597825	0.09137636	8.47E-07
G	A	0.11	-0.3908867	0.08569407	7.34E-06
C	CGT	0.02	-0.8247266	0.1755091	3.96E-06
GTGTGTGTGTGTGTG	A	0.05	0.5913675	0.12831	5.94E-06
T	C	0.06	0.5393606	0.1186415	7.85E-06
TA	T	0.06	0.5416364	0.1137749	3.00E-06
G	A	0.04	0.6124583	0.1329201	5.97E-06
G	A	0.01	1.07651	0.2376135	8.41E-06
A	G	0.01	1.07651	0.2376135	8.41E-06
T	A	0.01	1.030139	0.2239967	6.21E-06
A	G	0.01	-1.179746	0.2441724	2.16E-06
C	T	0.03	0.7993561	0.1607655	1.12E-06
T	C	0.02	0.8535377	0.174795	1.70E-06
T	C	0.03	0.8926397	0.1613735	7.22E-08
T	G	0.03	0.8311415	0.1644646	7.63E-07

G	C	0.02	0.7801029	0.1706135	6.99E-06
C	T	0.02	0.7651286	0.1683304	7.87E-06
G	C	0.02	0.7801029	0.1706135	6.99E-06
T	C	0.03	0.7441136	0.1645024	8.67E-06
T	C	0.03	0.7441136	0.1645024	8.67E-06
A	G	0.01	-1.193776	0.2649987	9.41E-06
G	T	0.03	-0.7430174	0.1615282	6.18E-06
C	A	0.03	-0.7430174	0.1615282	6.18E-06
G	A	0.03	-0.7430174	0.1615282	6.18E-06
A	G	0.03	-0.7430174	0.1615282	6.18E-06
T	C	0.03	-0.7430174	0.1615282	6.18E-06
T	G	0.03	-0.7430174	0.1615282	6.18E-06
T	G	0.03	-0.7430174	0.1615282	6.18E-06
G	GA	0.08	-0.4413489	0.09704705	7.79E-06
T	C	0.29	-0.2787111	0.05767912	2.16E-06
C	T	0.02	-0.9780413	0.2031484	2.34E-06
T	C	0.1	-0.3781887	0.08396476	9.44E-06
C	G	0.02	-0.9378636	0.199199	3.80E-06
G	A	0.01	-1.216736	0.2592404	4.07E-06
G	GCA	0.3	-0.2836909	0.06085402	4.69E-06
T	C	0.02	-0.9029858	0.2009654	9.90E-06
AG	A	0.06	0.6061693	0.1144741	2.36E-07
G	A	0.06	0.5983427	0.1133726	2.57E-07
A	G	0.06	0.5983427	0.1133726	2.57E-07
G	C	0.06	0.5983427	0.1133726	2.57E-07
A	C	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
C	A	0.06	0.5983427	0.1133726	2.57E-07
A	G	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
A	C	0.06	0.5153325	0.1125188	6.76E-06
C	T	0.06	0.5983427	0.1133726	2.57E-07
G	A	0.06	0.5983427	0.1133726	2.57E-07
T	C	0.05	0.6429751	0.1183609	1.19E-07
G	A	0.06	0.5983427	0.1133726	2.57E-07
G	C	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
T	A	0.06	0.5983427	0.1133726	2.57E-07
T	C	0.06	0.5983427	0.1133726	2.57E-07
A	G	0.06	0.5983427	0.1133726	2.57E-07
T	G	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
G	A	0.06	0.5983427	0.1133726	2.57E-07
G	A	0.06	0.5983427	0.1133726	2.57E-07
G	C	0.06	0.5983427	0.1133726	2.57E-07
GGTAGACCAGAA	G	0.05	0.6047467	0.1270197	2.99E-06
C	T	0.06	0.5983427	0.1133726	2.57E-07
T	C	0.06	0.6016864	0.1137591	2.43E-07
A	C	0.06	0.5983427	0.1133726	2.57E-07
T	C	0.06	0.5983427	0.1133726	2.57E-07

G	A	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
T	A	0.06	0.5983427	0.1133726	2.57E-07
A	T	0.06	0.5969489	0.1145332	3.55E-07
C	T	0.06	0.6020842	0.1142954	2.70E-07
A	T	0.06	0.5983427	0.1133726	2.57E-07
A	C	0.06	0.5983427	0.1133726	2.57E-07
C	A	0.06	0.5782423	0.1146572	8.02E-07
G	C	0.06	0.5983427	0.1133726	2.57E-07
T	C	0.06	0.5983427	0.1133726	2.57E-07
T	G	0.06	0.5983427	0.1133726	2.57E-07
A	G	0.06	0.592041	0.1137405	3.67E-07
CAT	C	0.06	0.6061693	0.1144741	2.36E-07
CT	C	0.06	0.6061693	0.1144741	2.36E-07
G	A	0.05	0.6230202	0.1186821	2.96E-07
C	T	0.06	0.6085574	0.1136801	1.77E-07
A	T	0.06	0.6057763	0.1137073	2.01E-07
C	T	0.06	0.5983427	0.1133726	2.57E-07
C	T	0.05	0.584994	0.130258	9.99E-06
C	T	0.06	0.6440512	0.1161827	6.79E-08
T	C	0.06	0.6038883	0.1150362	2.96E-07
G	A	0.05	0.6561905	0.1206469	1.15E-07
T	C	0.07	0.4844924	0.1044958	5.25E-06
A	G	0.05	0.51663	0.1148066	9.61E-06
T	C	0.05	0.5527166	0.1220825	8.52E-06
T	A	0.42	0.2441247	0.05401435	8.82E-06
A	G	0.01	0.6018054	0.09538532	1.14E-09
ATCTC	A	0.02	-0.3524579	0.05872257	6.24E-09
C	T	0.38	0.1509392	0.02331126	4.53E-10
G	T	0.38	0.139073	0.02310971	5.67E-09
G	A	0.02	0.3962534	0.06489863	3.49E-09
C	T	0.01	0.91049	0.1360073	1.27E-10
T	G	0.01	0.91049	0.1360073	1.27E-10
T	TC	0.01	0.787223	0.1174469	1.21E-10
A	G	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
A	T	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
C	T	0.01	0.787223	0.1174469	1.21E-10
C	T	0.01	0.787223	0.1174469	1.21E-10
T	C	0.01	0.787223	0.1174469	1.21E-10
C	G	0.01	0.787223	0.1174469	1.21E-10
G	C	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
T	C	0.01	0.787223	0.1174469	1.21E-10
AC	A	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
A	G	0.01	0.787223	0.1174469	1.21E-10
C	T	0.01	0.787223	0.1174469	1.21E-10

C	T	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
G	A	0.01	0.7731911	0.1219336	9.50E-10
G	A	0.01	0.787223	0.1174469	1.21E-10
G	T	0.01	0.787223	0.1174469	1.21E-10
A	T	0.01	0.7890633	0.1324261	7.73E-09
G	A	0.01	0.787223	0.1174469	1.21E-10
A	G	0.01	0.787223	0.1174469	1.21E-10
T	C	0.02	0.7285684	0.1149786	9.75E-10
A	G	0.02	0.7285684	0.1149786	9.75E-10
T	C	0.02	0.7285684	0.1149786	9.75E-10
C	G	0.02	0.7285684	0.1149786	9.75E-10
C	T	0.02	0.7285684	0.1149786	9.75E-10
C	T	0.01	0.7456272	0.1251411	7.74E-09
AG	A	0.02	0.7285684	0.1149786	9.75E-10
T	A	0.02	0.7285684	0.1149786	9.75E-10
A	G	0.02	0.7285684	0.1149786	9.75E-10
A	G	0.02	0.763624	0.1087735	1.87E-11
A	AT	0.02	0.7285684	0.1149786	9.75E-10
C	T	0.03	0.2445767	0.04107363	7.91E-09
T	G	0.5	0.0912714	0.01505923	4.44E-09
C	T	0.5	0.08864405	0.01494821	8.98E-09
G	C	0.5	0.08864405	0.01494821	8.98E-09
G	A	0.5	-0.0904102	0.015042	5.83E-09
T	C	0.5	-0.0914585	0.01508164	4.36E-09
G	A	0.5	-0.0910695	0.01505888	4.77E-09
A	G	0.5	-0.0910695	0.01505888	4.77E-09
G	A	0.5	-0.0917751	0.01500816	3.30E-09
G	A	0.5	-0.0914585	0.01508164	4.36E-09
G	A	0.5	0.0912714	0.01505923	4.44E-09
A	G	0.5	0.0912714	0.01505923	4.44E-09
CT	C	0.5	-0.0915359	0.01498715	3.44E-09
G	T	0.5	-0.0919659	0.01503061	3.24E-09
T	TC	0.5	-0.0911623	0.01496569	3.76E-09
C	T	0.5	-0.0922361	0.0149899	2.68E-09
G	T	0.5	-0.0928039	0.015	2.23E-09
C	G	0.41	-0.0889244	0.01502546	9.57E-09
T	C	0.48	-0.0982628	0.0146251	1.10E-10
A	G	0.5	-0.0914687	0.01501428	3.74E-09
G	A	0.5	0.0912714	0.01505923	4.44E-09
A	ATTC	0.5	-0.0922092	0.01493726	2.40E-09
AT	A	0.49	-0.090599	0.01496982	4.65E-09
G	A	0.5	-0.0923898	0.01498727	2.52E-09
G	A	0.5	-0.09113	0.0149732	3.87E-09
C	T	0.5	-0.0920021	0.01494626	2.65E-09
G	A	0.5	-0.0906171	0.01502325	5.19E-09
A	G	0.5	-0.0907217	0.01502326	5.00E-09
T	G	0.5	-0.0906171	0.01502325	5.19E-09
AATT	A	0.5	-0.0905745	0.01500199	5.04E-09
C	T	0.5	-0.0906171	0.01502325	5.19E-09

G	A	0.5	-0.090812	0.01502314	4.84E-09
A	G	0.5	-0.0916122	0.01499058	3.37E-09
G	A	0.5	-0.0922682	0.01496193	2.49E-09
G	A	0.5	-0.0906171	0.01502325	5.19E-09
G	C	0.5	-0.0906171	0.01502325	5.19E-09
G	A	0.5	-0.090812	0.01502314	4.84E-09
T	C	0.5	-0.0921558	0.01504439	3.12E-09
A	G	0.5	-0.0907601	0.01505146	5.25E-09
G	A	0.5	-0.0916749	0.01503188	3.61E-09
G	A	0.5	-0.0914585	0.01508164	4.36E-09
T	A	0.5	-0.090625	0.0150637	5.65E-09
T	C	0.5	-0.0909903	0.01503712	4.68E-09
A	T	0.5	-0.0923033	0.01505086	3.00E-09
G	A	0.5	-0.0910695	0.01505888	4.77E-09
T	C	0.5	-0.0934508	0.0149886	1.71E-09
G	C	0.5	-0.0910695	0.01505888	4.77E-09
T	C	0.5	-0.0910695	0.01505888	4.77E-09
G	C	0.5	-0.0898822	0.01503399	6.92E-09
T	C	0.5	-0.091407	0.01505889	4.22E-09
T	C	0.5	0.0912714	0.01505923	4.44E-09
C	T	0.5	0.0912714	0.01505923	4.44E-09
A	G	0.5	-0.0898712	0.01505234	7.23E-09
T	A	0.5	-0.0910695	0.01505888	4.77E-09
C	T	0.5	-0.0922912	0.01501024	2.75E-09
G	A	0.5	-0.0914585	0.01508164	4.36E-09
T	C	0.5	-0.0899538	0.01507267	7.33E-09
T	TCACA	0.5	-0.0910236	0.01503731	4.63E-09
C	G	0.5	-0.0895204	0.0150637	8.39E-09
A	G	0.5	-0.0910695	0.01505888	4.77E-09
T	G	0.5	-0.0895949	0.01504509	7.85E-09
C	T	0.5	0.0912714	0.01505923	4.44E-09
G	A	0.5	-0.0910695	0.01505888	4.77E-09
G	A	0.5	0.0912714	0.01505923	4.44E-09
G	C	0.5	-0.0914585	0.01508164	4.36E-09
T	C	0.5	-0.0910695	0.01505888	4.77E-09
G	A	0.5	-0.0910461	0.01500074	4.24E-09
T	C	0.5	-0.0899912	0.01506336	7.09E-09
G	A	0.5	-0.0914585	0.01508164	4.36E-09
A	G	0.5	-0.0898587	0.01506085	7.39E-09
G	T	0.5	-0.0910695	0.01505888	4.77E-09
C	T	0.5	0.0912714	0.01505923	4.44E-09
G	C	0.5	-0.0914585	0.01508164	4.36E-09
C	T	0.5	-0.0907198	0.01506215	5.45E-09
G	C	0.5	-0.0902714	0.0150731	6.55E-09
T	C	0.5	0.09089677	0.0150607	5.10E-09
C	T	0.5	0.08975572	0.01506789	7.78E-09
G	A	0.5	-0.0936725	0.01504004	1.77E-09
C	A	0.5	-0.0910695	0.01505888	4.77E-09
T	A	0.49	-0.0937649	0.01475948	8.86E-10
A	G	0.45	-0.0833172	0.0139307	6.84E-09

T	C	0.45	-0.0839734	0.01399382	6.14E-09
G	C	0.49	-0.08852	0.01489143	8.32E-09
T	C	0.48	-0.0888985	0.01466722	4.43E-09
T	C	0.5	0.08967739	0.01507224	8.08E-09
G	T	0.5	0.09006463	0.01509529	7.39E-09
C	A	0.5	0.09006463	0.01509529	7.39E-09
G	T	0.5	0.08988439	0.01507304	7.52E-09
G	A	0.5	-0.0914585	0.01508164	4.36E-09
G	A	0.5	0.0912714	0.01505923	4.44E-09
GTTAAT	G	0.5	-0.0903033	0.01503152	5.92E-09
T	C	0.49	-0.0903883	0.01489866	4.29E-09
C	T	0.5	0.09006463	0.01509529	7.39E-09
A	G	0.48	-0.0874667	0.01479474	9.89E-09
A	G	0.5	-0.0914585	0.01508164	4.36E-09
T	C	0.5	-0.0910695	0.01505888	4.77E-09
C	G	0.5	0.09148125	0.01504687	4.00E-09
A	G	0.5	-0.092839	0.01504072	2.41E-09
A	G	0.5	-0.0904502	0.01505695	5.93E-09
A	G	0.5	0.09068007	0.01507273	5.65E-09
A	G	0.5	0.09053659	0.01502475	5.36E-09
T	C	0.5	-0.089678	0.01503819	7.51E-09
G	A	0.5	0.08916218	0.01505929	9.44E-09
G	T	0.5	0.08909286	0.01503055	9.11E-09
G	A	0.5	0.08955636	0.01503046	7.72E-09
C	T	0.5	0.0892344	0.01495149	7.32E-09
T	A	0.5	0.0896144	0.014974	6.70E-09
G	A	0.5	-0.0894362	0.01493763	6.60E-09
T	C	0.5	-0.0881492	0.0149024	9.73E-09
A	G	0.5	-0.0887776	0.01493546	8.33E-09
A	G	0.5	0.0894386	0.0149523	6.81E-09
G	A	0.5	0.0892344	0.01495149	7.32E-09
A	G	0.5	0.0892344	0.01495149	7.32E-09
G	A	0.49	0.09108595	0.0150215	4.37E-09
C	T	0.5	0.09055804	0.01500829	5.14E-09
G	A	0.5	0.09058752	0.01498415	4.82E-09
G	A	0.5	0.09128487	0.01494277	3.42E-09
A	G	0.5	0.09033109	0.01500584	5.54E-09
G	A	0.5	0.08988201	0.01500891	6.56E-09
A	G	0.49	0.09109303	0.01502381	4.38E-09
C	T	0.49	0.09106449	0.01499516	4.16E-09
C	T	0.5	0.09053693	0.01498513	4.92E-09
G	A	0.5	0.09153357	0.01499801	3.53E-09
A	G	0.5	0.09207319	0.01498606	2.82E-09
T	C	0.5	0.0916754	0.01496289	3.10E-09
T	A	0.5	0.09131702	0.0149892	3.74E-09
C	T	0.5	0.09072821	0.01502941	5.06E-09
T	C	0.49	0.09123439	0.01501611	4.09E-09
C	T	0.5	0.09033109	0.01500584	5.54E-09
C	T	0.5	0.09047439	0.01502521	5.49E-09
A	C	0.5	0.0912644	0.01504494	4.31E-09

C	T	0.5	0.09072821	0.01502941	5.06E-09
A	G	0.5	0.0895659	0.01498915	7.04E-09
G	A	0.49	0.09109303	0.01502381	4.38E-09
T	C	0.5	0.09086369	0.01502123	4.73E-09
T	A	0.5	0.09100848	0.01500181	4.30E-09
A	G	0.5	0.09033109	0.01500584	5.54E-09
C	T	0.5	0.09033109	0.01500584	5.54E-09
G	A	0.5	0.0913602	0.0150156	3.91E-09
T	A	0.49	0.09094829	0.01503208	4.70E-09
G	A	0.49	0.09095646	0.01496949	4.08E-09
A	G	0.5	0.09033109	0.01500584	5.54E-09
A	G	0.5	0.09055804	0.01500829	5.14E-09
G	T	0.5	0.09055804	0.01500829	5.14E-09
T	C	0.5	0.0890913	0.01499654	8.48E-09
T	C	0.5	0.09086369	0.01502123	4.73E-09
T	C	0.49	0.09109303	0.01502381	4.38E-09
T	C	0.5	0.09086369	0.01502123	4.73E-09
G	C	0.5	0.09083448	0.01499249	4.49E-09
T	A	0.5	0.09033109	0.01500584	5.54E-09
A	AT	0.5	0.09209417	0.01498122	2.77E-09
C	G	0.49	0.09106449	0.01499516	4.16E-09
C	T	0.49	0.09109303	0.01502381	4.38E-09
T	C	0.49	0.09123439	0.01501611	4.09E-09
C	T	0.5	0.09055804	0.01500829	5.14E-09
C	T	0.49	0.09109303	0.01502381	4.38E-09
A	G	0.5	0.09033109	0.01500584	5.54E-09
G	A	0.5	0.09033109	0.01500584	5.54E-09
T	C	0.49	0.09106449	0.01499516	4.16E-09
A	C	0.5	0.09080685	0.01492852	3.94E-09
C	G	0.5	0.09086369	0.01502123	4.73E-09
A	C	0.5	0.09009066	0.01498203	5.74E-09
T	C	0.5	0.09012238	0.01496239	5.44E-09
A	G	0.5	0.09093699	0.0149794	4.20E-09
C	T	0.5	0.09086369	0.01502123	4.73E-09
T	G	0.5	0.09083448	0.01499249	4.49E-09
G	A	0.5	0.09033109	0.01500584	5.54E-09
A	G	0.49	0.09106449	0.01499516	4.16E-09
T	A	0.5	0.09033109	0.01500584	5.54E-09
A	G	0.49	0.09109303	0.01502381	4.38E-09
A	T	0.5	0.09074339	0.01496344	4.35E-09
T	C	0.5	0.09006792	0.01501157	6.17E-09
C	T	0.5	0.09083448	0.01499249	4.49E-09
T	C	0.5	0.09033109	0.01500584	5.54E-09
G	A	0.49	0.09123439	0.01501611	4.09E-09
T	AGCTAGTAAATGGCA	0.48	-0.0860201	0.01422991	4.84E-09
G	A	0.5	0.09072821	0.01502941	5.06E-09
T	A	0.5	0.0916754	0.01496289	3.10E-09
G	A	0.49	0.09106449	0.01499516	4.16E-09
G	A	0.5	0.09031233	0.01495729	5.02E-09
C	T	0.5	0.09055804	0.01500829	5.14E-09

T	A	0.5	0.09075856	0.01500958	4.79E-09
C	T	0.5	0.09072821	0.01502941	5.06E-09
A	T	0.5	0.09055804	0.01500829	5.14E-09
C	T	0.5	0.09423313	0.01499047	1.29E-09
A	G	0.49	0.09401703	0.01494128	1.24E-09
C	G	0.49	0.09401703	0.01494128	1.24E-09
T	C	0.49	0.09401703	0.01494128	1.24E-09
A	T	0.49	0.09118247	0.01497531	3.81E-09
G	A	0.49	0.09156964	0.01495269	3.15E-09
T	C	0.49	0.09360833	0.0149364	1.43E-09
C	T	0.49	0.09401703	0.01494128	1.24E-09
A	C	0.49	0.08927652	0.01495683	7.29E-09
A	C	0.49	0.09626785	0.01491332	4.98E-10
C	A	0.5	0.09112203	0.0148562	2.98E-09
T	A	0.5	0.09112203	0.0148562	2.98E-09
A	ATATAATTT	0.41	-0.0955793	0.01508498	9.74E-10
G	C	0.5	0.09103203	0.01489324	3.35E-09
CA	C	0.06	0.1823279	0.03063327	8.07E-09
CA	C	0.02	-0.4851867	0.08055392	6.72E-09
C	T	0.29	-0.0928813	0.01558671	7.69E-09
A	G	0.3	-0.0922907	0.01560101	9.70E-09
A	G	0.3	-0.0922907	0.01560101	9.70E-09
C	T	0.3	-0.0922907	0.01560101	9.70E-09
T	C	0.3	-0.0922907	0.01560101	9.70E-09
GGTGTGTGTGTGT	G	0.01	-0.9279183	0.1490271	1.79E-09
T	C	0.01	-0.6898746	0.1132973	4.23E-09
A	G	0.02	0.4498539	0.07535067	7.39E-09
T	C	0.01	-0.7460945	0.1224742	3.80E-09
C	T	0.01	-0.4417988	0.07395313	7.18E-09
A	G	0.02	-0.3785387	0.06284606	5.50E-09
G	T	0.02	-0.3785387	0.06284606	5.50E-09
C	T	0.02	-0.3865489	0.0644146	6.21E-09
C	A	0.01	-0.6592792	0.1110059	8.55E-09
C	G	0.02	-0.5682652	0.08852386	6.69E-10
C	G	0.02	-0.5682652	0.08852386	6.69E-10
A	G	0.02	-0.5682652	0.08852386	6.69E-10
C	T	0.02	-0.507749	0.08460593	6.57E-09
C	T	0.02	-0.5259205	0.08684393	4.91E-09
C	T	0.02	-0.5259205	0.08684393	4.91E-09
T	G	0.01	-0.6621044	0.1095327	5.21E-09
G	T	0.01	-0.6621044	0.1095327	5.21E-09
GA	G	0.01	-0.6621044	0.1095327	5.21E-09
T	C	0.01	-0.6621044	0.1095327	5.21E-09
T	C	0.28	-0.0714172	0.0118173	4.89E-09
A	G	0.28	-0.0714172	0.0118173	4.89E-09
T	C	0.27	-0.0716835	0.0118595	4.87E-09
A	G	0.27	-0.0726107	0.01197649	4.40E-09
T	C	0.28	-0.0714172	0.0118173	4.89E-09
T	C	0.28	-0.0707349	0.01184814	7.26E-09
A	G	0.28	-0.0714172	0.0118173	4.89E-09

C	T	0.28	-0.0714172	0.0118173	4.89E-09
G	A	0.28	-0.0709337	0.01189903	7.62E-09
T	TC	0.28	-0.0702108	0.01186125	9.54E-09
C	T	0.28	-0.0714172	0.0118173	4.89E-09
A	G	0.28	-0.0721616	0.01184785	3.78E-09
C	T	0.28	-0.0699361	0.01182458	9.79E-09
C	T	0.28	-0.0714172	0.0118173	4.89E-09
A	G	0.28	-0.0707973	0.01184569	7.01E-09
C	T	0.28	-0.0714172	0.0118173	4.89E-09
A	T	0.28	-0.0714172	0.0118173	4.89E-09
A	G	0.28	-0.0714172	0.0118173	4.89E-09
A	G	0.28	-0.0714172	0.0118173	4.89E-09
G	A	0.28	-0.0714172	0.0118173	4.89E-09
C	G	0.28	-0.0714172	0.0118173	4.89E-09
A	C	0.28	-0.0714172	0.0118173	4.89E-09
T	A	0.28	-0.0714172	0.0118173	4.89E-09
G	A	0.28	-0.073726	0.01186888	1.95E-09
G	T	0.28	-0.0714172	0.0118173	4.89E-09
T	G	0.28	-0.0707349	0.01184814	7.26E-09
C	T	0.28	-0.0699981	0.01181996	9.40E-09
T	C	0.28	-0.0714172	0.0118173	4.89E-09
T	G	0.28	-0.0714172	0.0118173	4.89E-09
CA	C	0.28	-0.0706783	0.01182664	7.03E-09
G	A	0.28	-0.0718594	0.0118175	3.99E-09
A	G	0.28	-0.0718594	0.0118175	3.99E-09
G	A	0.28	-0.0718594	0.0118175	3.99E-09
A	T	0.28	-0.0714172	0.0118173	4.89E-09
G	C	0.28	-0.0714172	0.0118173	4.89E-09
C	T	0.28	-0.0707349	0.01184814	7.26E-09
T	G	0.28	-0.072604	0.01184781	3.09E-09
C	G	0.03	0.4620725	0.07676376	5.83E-09
TA	T	0.01	-0.5035738	0.0834344	5.12E-09
A	G	0.02	-0.5600244	0.09156639	3.29E-09
C	CT	0.13	-0.2306873	0.03738767	2.44E-09
G	A	0.01	-0.3780324	0.06045971	1.80E-09
T	A	0.01	0.7456024	0.1240812	5.88E-09
G	A	0.01	-0.5070706	0.08279272	3.19E-09
C	T	0.01	-0.5070706	0.08279272	3.19E-09
C	A	0.08	0.2197666	0.04557119	2.25E-06
C	T	0.09	0.1978492	0.04192897	3.62E-06
C	T	0.09	0.2072359	0.04185418	1.24E-06
C	T	0.1	0.1998955	0.04143895	2.24E-06
A	C	0.11	0.1803781	0.03876988	4.88E-06
T	C	0.1	0.1998955	0.04143895	2.24E-06
G	T	0.09	0.195353	0.04187978	4.63E-06
A	G	0.1	0.1998955	0.04143895	2.24E-06
G	C	0.1	0.1998955	0.04143895	2.24E-06
G	A	0.1	0.1998955	0.04143895	2.24E-06
A	T	0.06	0.2421341	0.05129421	3.59E-06
C	A	0.05	0.2454849	0.0538932	7.54E-06

G	A	0.04	0.3115858	0.059009	2.54E-07
C	CG	0.04	0.3174694	0.06160473	4.72E-07
C	CTCTGTGTGTGTGTG	0.12	0.1779066	0.03794995	4.16E-06
A	G	0.07	0.227457	0.0470295	2.11E-06
T	C	0.07	0.227457	0.0470295	2.11E-06
C	A	0.07	0.2179831	0.04764378	6.89E-06
T	A	0.07	0.2222841	0.04782983	5.00E-06
A	C	0.07	0.2179831	0.04764378	6.89E-06
T	A	0.07	0.2179831	0.04764378	6.89E-06
C	A	0.07	0.2325163	0.04814767	2.19E-06
T	G	0.07	0.227457	0.0470295	2.11E-06
T	C	0.02	0.5366078	0.09709935	7.39E-08
G	A	0.02	0.5366078	0.09709935	7.39E-08
T	C	0.21	0.1359082	0.02972518	6.99E-06
G	GTGTTTT	0.08	0.202747	0.04479085	8.55E-06
C	A	0.01	0.530534	0.1150427	5.86E-06
A	G	0.11	0.1879407	0.04008592	4.15E-06
A	T	0.47	-0.1064751	0.02311573	6.01E-06
T	A	0.41	0.1245072	0.02474979	8.50E-07
T	A	0.38	0.1135105	0.02506256	8.45E-06
T	C	0.41	0.1200594	0.02457642	1.69E-06
T	C	0.38	0.1118188	0.0247842	9.12E-06
C	T	0.38	0.1120585	0.02488457	9.47E-06
CTCTT	C	0.37	0.1132051	0.02481285	7.30E-06
A	C	0.37	0.1140344	0.02479041	6.18E-06
T	C	0.37	0.1120445	0.02485067	9.24E-06
A	G	0.37	0.1135458	0.0247999	6.80E-06
C	A	0.37	0.1143357	0.02489429	6.38E-06
G	T	0.01	0.5501838	0.1174297	4.22E-06
CT	C	0.02	0.4678117	0.09372047	1.02E-06
AGT	A	0.1	0.2090653	0.04232	1.30E-06
CT	C	0.03	0.323041	0.07153688	8.96E-06
G	T	0.32	-0.1190906	0.02596215	6.54E-06
C	T	0.02	0.3917818	0.07879452	1.12E-06
A	T	0.03	0.372721	0.07784312	2.64E-06
G	A	0.03	0.372721	0.07784312	2.64E-06
C	T	0.03	0.372721	0.07784312	2.64E-06
A	G	0.03	0.372721	0.07784312	2.64E-06
A	AC	0.02	0.3629612	0.07911273	6.52E-06
A	G	0.02	0.3629612	0.07911273	6.52E-06
AAC	A	0.02	0.3629612	0.07911273	6.52E-06
C	T	0.02	0.3629612	0.07911273	6.52E-06
C	A	0.02	0.3827833	0.08018995	2.82E-06
A	G	0.02	0.3827833	0.08018995	2.82E-06
C	A	0.02	0.3625286	0.07896729	6.43E-06
A	C	0.02	0.4214956	0.08403804	9.13E-07
A	ACCC	0.02	0.3827833	0.08018995	2.82E-06
G	A	0.02	0.3827833	0.08018995	2.82E-06
A	G	0.02	0.4133904	0.09172098	9.31E-06
G	C	0.03	0.4231611	0.07599551	5.97E-08

C	T	0.05	0.2678909	0.05930813	8.91E-06
CGT	C	0.12	0.1698437	0.03676543	5.66E-06
T	C	0.34	0.1160852	0.02477532	4.21E-06
C	G	0.33	0.1130452	0.02516422	9.93E-06
T	C	0.09	0.1918535	0.04251634	9.09E-06
A	C	0.03	0.3287031	0.0699505	3.96E-06
A	C	0.03	0.3533644	0.07558722	4.42E-06
G	C	0.02	0.4375658	0.08780388	1.06E-06
G	C	0.01	0.5288658	0.1074424	1.42E-06
A	G	0.01	0.5288658	0.1074424	1.42E-06
G	A	0.01	0.5087968	0.111011	6.65E-06
G	GA	0.01	0.5346063	0.116467	6.45E-06
A	AGTGTGT	0.02	0.3822919	0.08156512	4.18E-06
C	A	0.03	0.3201238	0.07107635	9.44E-06
G	GAAGA	0.08	0.1990557	0.04360429	7.21E-06
C	G	0.02	0.3820999	0.08461181	8.95E-06
T	TCAGGAGTTCAAGAC	0.01	0.5213398	0.1113625	4.29E-06
A	G	0.14	-0.158023	0.03499345	8.96E-06
C	CGTGT	0.09	0.2084514	0.04418962	3.65E-06
TAAA	T	0.06	0.198999	0.04256722	4.42E-06
T	C	0.04	0.267419	0.05935578	9.38E-06
T	A	0.02	0.4222638	0.09288959	7.85E-06
G	T	0.02	0.434042	0.09604665	8.83E-06
A	G	0.01	0.5433582	0.1184177	6.50E-06
G	A	0.03	0.3314004	0.07225675	6.56E-06
T	G	0.4	0.1060099	0.02334236	8.00E-06
A	C	0.02	0.3936445	0.08727548	9.18E-06
C	CACAT	0.02	0.5101645	0.1026445	1.13E-06
C	T	0.02	0.4440611	0.09091347	1.69E-06
CTGTG	C	0.05	0.2562138	0.05632851	7.76E-06
C	A	0.01	0.5623145	0.1192023	3.65E-06
C	T	0.03	0.3294135	0.07316557	9.51E-06
A	T	0.03	0.3093207	0.06793492	7.60E-06
C	CA	0.01	0.5393838	0.1155834	4.58E-06
T	G	0.15	0.1582721	0.03328599	3.07E-06
T	C	0.15	0.1580156	0.03388873	4.66E-06
C	A	0.15	0.1607977	0.03391724	3.28E-06
C	T	0.15	0.149755	0.03291817	7.73E-06
C	G	0.16	0.1464545	0.03223237	7.92E-06
C	T	0.03	0.6665907	0.1122537	8.59E-09
G	A	0.03	0.8393666	0.1357445	2.35E-09
C	T	0.01	1.082082	0.1818165	8.24E-09
GT	G	0.02	0.9385842	0.1551309	4.74E-09
C	T	0.01	1.165517	0.192088	4.32E-09
A	G	0.02	0.930529	0.1502078	2.15E-09
ATT	A	0.01	1.165891	0.1906272	3.32E-09
G	A	0.02	0.985852	0.153142	5.57E-10
C	T	0.01	1.134719	0.1849775	2.98E-09
AAAAGAAAG	A	0.02	0.885296	0.1385175	7.16E-10
T	C	0.03	0.6392821	0.1026352	1.77E-09

T	C	0.03	0.6782589	0.1068858	9.25E-10
C	T	0.01	1.412145	0.2335062	4.77E-09
G	C	0.02	0.8816406	0.149077	9.87E-09
T	A	0.03	0.7320541	0.1232927	9.41E-09
G	A	0.04	0.6658792	0.112113	9.32E-09
G	A	0.04	0.6658792	0.112113	9.32E-09
TAA	T	0.05	0.5539384	0.09319151	9.09E-09
T	C	0.03	0.6933191	0.1116089	2.15E-09
T	C	0.03	0.6336764	0.104345	4.17E-09
T	C	0.04	0.6648224	0.1111743	8.15E-09
C	T	0.01	1.303729	0.2070356	1.21E-09
T	C	0.03	0.6979699	0.1153226	4.65E-09
T	C	0.03	0.8239736	0.138235	7.64E-09
T	TC	0.01	0.9690283	0.1633546	8.97E-09
T	C	0.03	0.62474	0.1034979	5.12E-09
T	C	0.03	0.6655657	0.1116956	7.70E-09
G	C	0.02	0.8901477	0.1446992	2.71E-09
T	C	0.03	0.5733152	0.09695694	9.85E-09
G	C	0.02	0.977595	0.1528301	6.93E-10
T	C	0.03	0.6253442	0.1050055	7.84E-09
T	C	0.03	0.6733379	0.1127092	7.17E-09
C	T	0.01	1.47939	0.2390942	2.22E-09
C	T	0.01	1.148246	0.1925052	7.84E-09
T	C	0.03	0.6534565	0.1050754	1.98E-09
AAAACTTCAT	A	0.02	0.9120422	0.1532163	7.97E-09
G	A	0.02	0.9120422	0.1532163	7.97E-09
C	A	0.02	0.9120422	0.1532163	7.97E-09
A	G	0.02	0.9120422	0.1532163	7.97E-09
G	C	0.02	0.9120422	0.1532163	7.97E-09
G	A	0.02	0.9120422	0.1532163	7.97E-09
T	TC	0.01	0.9794995	0.1642146	7.46E-09
T	C	0.03	0.6925877	0.1129768	3.04E-09
ATG	A	0.03	0.1884583	0.03083573	3.38E-09
C	T	0.01	0.9268819	0.1302714	1.06E-11
T	G	0.01	0.9268819	0.1302714	1.06E-11
T	TC	0.01	0.7863679	0.1126124	2.34E-11
A	G	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11
A	T	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11
C	T	0.01	0.7863679	0.1126124	2.34E-11
C	T	0.01	0.7863679	0.1126124	2.34E-11
T	C	0.01	0.7863679	0.1126124	2.34E-11
C	G	0.01	0.7863679	0.1126124	2.34E-11
G	C	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11
T	C	0.01	0.7863679	0.1126124	2.34E-11
AC	A	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11

A	G	0.01	0.7863679	0.1126124	2.34E-11
C	T	0.01	0.7863679	0.1126124	2.34E-11
C	T	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7863679	0.1126124	2.34E-11
G	A	0.01	0.7503104	0.1173648	7.10E-10
G	A	0.01	0.7863679	0.1126124	2.34E-11
G	T	0.01	0.7863679	0.1126124	2.34E-11
A	T	0.01	0.779108	0.1272097	3.15E-09
G	A	0.01	0.7863679	0.1126124	2.34E-11
A	G	0.01	0.7863679	0.1126124	2.34E-11
T	C	0.02	0.7318314	0.1103299	1.81E-10
A	G	0.02	0.7318314	0.1103299	1.81E-10
T	C	0.02	0.7318314	0.1103299	1.81E-10
C	G	0.02	0.7318314	0.1103299	1.81E-10
C	T	0.02	0.7318314	0.1103299	1.81E-10
C	T	0.01	0.7437874	0.1197972	1.98E-09
AG	A	0.02	0.7318314	0.1103299	1.81E-10
T	A	0.02	0.7318314	0.1103299	1.81E-10
A	G	0.02	0.7318314	0.1103299	1.81E-10
T	TG	0.01	0.7220035	0.1200592	5.74E-09
A	G	0.02	0.7622701	0.104256	3.23E-12
A	AT	0.02	0.7318314	0.1103299	1.81E-10
A	T	0.02	0.4686338	0.07891301	8.69E-09
T	TCAGAAG	0.12	0.2351686	0.0394066	7.57E-09
GGTGTGTGTGTGT	G	0.01	-1.009362	0.1531885	2.32E-10
T	C	0.01	-0.6704095	0.1121569	7.69E-09
G	'GTGTGTGTGTGTGTG	0.04	-0.2972099	0.0489202	4.12E-09
T	C	0.01	-0.7717757	0.1248038	2.68E-09
C	G	0.03	0.4768075	0.07714358	2.43E-09
C	A	0.01	0.6254666	0.1040859	6.16E-09
A	G	0.01	0.6254666	0.1040859	6.16E-09
T	C	0.01	0.6254666	0.1040859	6.16E-09
TG	T	0.01	0.7825475	0.1303878	6.11E-09
T	A	0.01	0.7781326	0.1242518	1.47E-09
G	C	0.01	0.6554715	0.1100825	8.04E-09
C	G	0.02	1.149199	0.1899178	5.96E-09
AACAG	A	0.02	1.149199	0.1899178	5.96E-09
T	C	0.02	1.149199	0.1899178	5.96E-09
C	T	0.02	1.149199	0.1899178	5.96E-09
G	A	0.02	1.149199	0.1899178	5.96E-09
G	A	0.02	1.149199	0.1899178	5.96E-09
T	A	0.02	1.169633	0.1845017	1.28E-09
T	C	0.02	1.038726	0.1703161	4.63E-09
G	A	0.05	-0.4529933	0.07640977	9.24E-09
G	A	0.05	-0.4755529	0.07856914	4.98E-09
T	A	0.01	0.8600871	0.1433234	6.26E-09
T	A	0.01	0.9241966	0.1449366	7.97E-10
G	A	0.01	0.9241966	0.1449366	7.97E-10
C	T	0.01	0.9241966	0.1449366	7.97E-10
C	A	0.01	0.9241966	0.1449366	7.97E-10

CAA	C	0.01	0.9241966	0.1449366	7.97E-10
A	G	0.01	0.9241966	0.1449366	7.97E-10
G	A	0.01	0.9241966	0.1449366	7.97E-10
C	A	0.01	0.9241966	0.1449366	7.97E-10
T	C	0.01	0.8997833	0.1476467	3.78E-09
G	A	0.01	0.9241966	0.1449366	7.97E-10
T	C	0.01	0.9241966	0.1449366	7.97E-10
G	C	0.01	0.9241966	0.1449366	7.97E-10
TG	T	0.01	0.9241966	0.1449366	7.97E-10
G	A	0.01	0.9241966	0.1449366	7.97E-10
T	TAAAACA	0.01	0.9241966	0.1449366	7.97E-10
A	G	0.01	0.9241966	0.1449366	7.97E-10
C	T	0.01	0.9241966	0.1449366	7.97E-10
T	TAA	0.01	0.9241966	0.1449366	7.97E-10
C	T	0.01	0.9241966	0.1449366	7.97E-10
A	G	0.01	0.9241966	0.1449366	7.97E-10
T	C	0.01	0.9241966	0.1449366	7.97E-10
G	T	0.01	0.9241966	0.1449366	7.97E-10
C	T	0.02	-0.9016203	0.1959566	6.15E-06
C	G	0.01	-1.099045	0.2136453	4.94E-07
G	A	0.02	-0.9625195	0.2091098	6.10E-06
A	ATGTG	0.01	-1.145476	0.2217495	4.46E-07
C	T	0.01	-1.218247	0.2513364	2.02E-06
C	T	0.01	-1.145218	0.251787	7.77E-06
A	ATGTGTGTG	0.02	-1.021177	0.1938234	2.69E-07
A	G	0.01	-1.208429	0.2505643	2.25E-06
A	G	0.04	-0.5572449	0.123753	9.49E-06
T	C	0.01	-0.9525067	0.1994879	2.81E-06
C	A	0.01	-0.9831864	0.218172	9.35E-06
AT	A	0.03	-0.6584128	0.141649	4.99E-06
GC	G	0.02	-0.7708298	0.168426	6.86E-06
G	A	0.07	-0.4838815	0.1030579	4.04E-06
G	GGT	0.08	-0.4483778	0.09681825	5.38E-06
T	C	0.03	-0.7514025	0.144618	3.85E-07
G	A	0.03	-0.6807127	0.1407187	2.11E-06
C	CT	0.02	-0.8670407	0.1866162	5.03E-06
A	T	0.06	-0.500504	0.1101433	7.92E-06
C	A	0.24	0.2715608	0.05854636	5.21E-06
C	G	0.38	0.2622191	0.05428107	2.17E-06
G	C	0.44	0.2427417	0.05154	3.78E-06
A	G	0.44	0.2396137	0.05095723	3.91E-06
A	C	0.37	0.2598452	0.0538922	2.27E-06
T	C	0.45	0.2332375	0.05017007	4.97E-06
G	A	0.02	-0.9693223	0.2107956	6.23E-06
T	C	0.02	-0.911117	0.1948328	4.39E-06
C	G	0.02	-0.911117	0.1948328	4.39E-06
C	T	0.02	-0.911117	0.1948328	4.39E-06
T	G	0.03	-0.6547729	0.1415946	5.55E-06
GTTTTA	G	0.08	-0.4074764	0.08487749	2.50E-06
A	G	0.01	-1.110998	0.2370166	4.18E-06

G	GA	0.11	-0.3324467	0.07095463	4.22E-06
T	C	0.02	-0.8751187	0.1897755	5.88E-06
G	A	0.02	-0.8751187	0.1897755	5.88E-06
C	T	0.02	-0.8936308	0.1966664	7.93E-06
G	A	0.01	-1.08919	0.2344053	5.02E-06
A	T	0.01	-1.08919	0.2344053	5.02E-06
A	C	0.01	-1.139785	0.240133	3.20E-06
C	T	0.02	-0.8566569	0.1862944	6.23E-06
T	C	0.02	-0.8566569	0.1862944	6.23E-06
G	A	0.03	-0.7954199	0.1484985	1.74E-07
G	A	0.03	-0.6408932	0.1382509	5.27E-06
T	C	0.02	-0.8646403	0.1699586	6.50E-07
T	G	0.04	-0.6150858	0.1360396	8.75E-06
A	T	0.03	-0.7418364	0.1515605	1.62E-06
T	C	0.03	-0.7418364	0.1515605	1.62E-06
G	A	0.01	-1.062544	0.2293812	5.36E-06
A	T	0.01	-1.062544	0.2293812	5.36E-06
A	AT	0.01	-1.062544	0.2293812	5.36E-06
T	C	0.02	-0.9723689	0.2080025	4.43E-06
T	G	0.01	-1.064	0.2225707	2.74E-06
C	A	0.01	-1.064	0.2225707	2.74E-06
T	G	0.01	-1.067143	0.2276954	4.19E-06
A	G	0.01	-1.05882	0.2335038	8.26E-06
A	G	0.01	-1.064	0.2225707	2.74E-06
T	TG	0.01	-1.064	0.2225707	2.74E-06
G	A	0.01	-1.064	0.2225707	2.74E-06
T	A	0.02	-0.8649402	0.190541	8.09E-06
C	T	0.14	0.3354114	0.07351254	7.30E-06
C	G	0.25	-0.2746874	0.06033196	7.62E-06
T	C	0.14	-0.38866	0.07570861	5.20E-07
C	T	0.14	-0.3873622	0.07609486	6.40E-07
G	A	0.01	-1.093151	0.216664	7.94E-07
T	C	0.01	-1.10284	0.2446234	9.27E-06
T	C	0.01	-1.10284	0.2446234	9.27E-06
C	G	0.01	-1.10284	0.2446234	9.27E-06
CAG	C	0.01	-1.084187	0.2390739	8.25E-06
G	A	0.02	-0.9184449	0.1987852	5.65E-06
AT	A	0.01	-1.101594	0.2236979	1.41E-06
G	GATAC	0.02	-0.9011292	0.1945674	5.38E-06
G	A	0.03	-0.688741	0.1506586	7.02E-06
A	G	0.03	-0.688741	0.1506586	7.02E-06
T	C	0.03	-0.688741	0.1506586	7.02E-06
A	G	0.03	-0.688741	0.1506586	7.02E-06
C	T	0.03	-0.688741	0.1506586	7.02E-06
C	T	0.03	-0.688741	0.1506586	7.02E-06
C	CA	0.03	-0.688741	0.1506586	7.02E-06
G	A	0.03	-0.688741	0.1506586	7.02E-06
C	G	0.03	-0.6360048	0.130876	1.90E-06
C	T	0.03	-0.688741	0.1506586	7.02E-06
C	T	0.03	-0.7255261	0.1523144	2.96E-06

G	C	0.02	-0.9243404	0.201024	6.24E-06
ACCATCCAT	A	0.02	-0.7634674	0.1681754	8.08E-06
C	CTCCTTCCTT	0.01	-1.00772	0.2176824	5.43E-06
C	T	0.02	-0.8480638	0.1875186	8.71E-06
T	C	0.01	-1.038323	0.2279096	7.52E-06
G	A	0.01	-1.031504	0.2174647	3.25E-06
G	T	0.04	-0.5763441	0.1282227	9.83E-06
C	T	0.15	0.3237542	0.07136377	8.19E-06
AG	A	0.02	-0.7916512	0.1707023	5.23E-06
T	C	0.03	-0.790948	0.1592989	1.16E-06
G	C	0.02	-0.7916512	0.1707023	5.23E-06
CAT	C	0.03	-0.8441785	0.1583236	1.97E-07
T	C	0.03	-0.790948	0.1592989	1.16E-06
A	T	0.03	-0.790948	0.1592989	1.16E-06
T	C	0.02	-0.8091164	0.1680693	2.35E-06
A	G	0.02	-0.8190995	0.1782929	6.35E-06
G	C	0.02	-0.8769885	0.1839829	2.92E-06
G	A	0.02	-0.7793273	0.1705113	7.05E-06
A	G	0.02	-0.8190995	0.1782929	6.35E-06
T	C	0.02	-0.8190995	0.1782929	6.35E-06
T	C	0.02	-0.8777311	0.1936472	8.33E-06
A	T	0.01	-1.183617	0.235712	8.90E-07
T	C	0.01	-1.222445	0.2352394	3.83E-07
T	TA	0.04	-0.5856889	0.1294354	8.62E-06
C	T	0.1	-0.4320656	0.08553606	7.72E-07
T	C	0.03	-0.7157031	0.1561152	6.63E-06
A	G	0.03	-0.7001938	0.1462227	2.64E-06
T	G	0.04	-0.6500385	0.1388116	4.27E-06
G	C	0.02	-1.047767	0.2037437	4.98E-07
A	T	0.02	-1.013929	0.2086844	1.91E-06
T	C	0.47	-0.2355196	0.05034215	4.35E-06
C	.GTGTGTGTGTGTGTG	0.01	-1.105815	0.2208056	9.48E-07
A	AT	0.02	-0.981781	0.2006842	1.64E-06
T	TTTTGTTTGTGTTG	0.06	-0.505867	0.1012077	9.93E-07
G	A	0.43	0.2247736	0.04982786	9.16E-06
G	A	0.4	0.228232	0.04994002	7.06E-06
C	G	0.42	0.2269013	0.04981875	7.57E-06
T	A	0.42	0.223214	0.04968641	9.94E-06
G	A	0.35	0.2582372	0.05276357	1.62E-06
G	A	0.33	0.2505309	0.05333218	3.99E-06
A	G	0.34	0.2446498	0.0531497	6.10E-06
A	G	0.33	0.2510024	0.05343375	4.00E-06
A	G	0.34	0.2502706	0.05274597	3.22E-06
CAG	C	0.01	-1.151982	0.2252924	5.74E-07
CT	C	0.17	-0.3139628	0.06741208	4.79E-06
CTGTTATGTTAG	C	0.17	-0.309238	0.0678191	7.39E-06
A	AT	0.02	-0.8829817	0.1854269	2.98E-06
C	T	0.38	0.2270299	0.05041272	9.47E-06
C	T	0.4	0.2342415	0.05036082	4.92E-06
T	C	0.42	0.2569086	0.05030282	5.91E-07

T	C	0.41	0.2368852	0.05044518	4.02E-06
A	T	0.41	0.2523028	0.05054236	1.02E-06
C	G	0.4	0.2546767	0.04975637	5.60E-07
C	T	0.41	0.2493997	0.04936249	7.68E-07
A	G	0.43	0.2323601	0.05020704	5.46E-06
A	G	0.43	0.2394587	0.05007182	2.72E-06
G	C	0.43	0.2425771	0.05011081	2.08E-06
T	G	0.44	0.242068	0.050236	2.30E-06
A	G	0.43	0.2293133	0.05033683	7.53E-06
A	G	0.43	0.2432048	0.04995383	1.82E-06
C	A	0.43	0.2452804	0.04970695	1.34E-06
C	A	0.36	0.2424859	0.05185353	4.39E-06
C	A	0.01	-1.152886	0.2362519	1.73E-06
C	T	0.01	-1.121659	0.2445041	6.54E-06
G	A	0.08	-0.4106439	0.09032357	7.84E-06
G	A	0.3	-0.2550842	0.0558819	7.23E-06
A	AC	0.25	-0.2839368	0.06026616	3.75E-06
C	T	0.29	-0.2678596	0.05637804	3.13E-06
G	A	0.23	-0.2850462	0.05878565	2.00E-06
G	A	0.28	-0.2563581	0.05645368	8.03E-06
T	C	0.39	-0.2398071	0.0524767	7.07E-06
A	G	0.37	-0.2466054	0.05375343	6.53E-06
CGTGTGT	C	0.34	-0.2641994	0.05830457	8.38E-06
G	A	0.02	-0.7280907	0.160939	8.65E-06
G	A	0.01	-1.103729	0.2434391	8.29E-06
A	G	0.02	-0.890524	0.196928	8.73E-06
G	A	0.02	-0.890524	0.196928	8.73E-06
C	T	0.01	-1.074974	0.235583	7.29E-06
A	AT	0.11	-0.379203	0.08030823	3.58E-06
AT	A	0.11	-0.3667365	0.07949262	5.83E-06
G	GC	0.11	-0.3667365	0.07949262	5.83E-06
T	C	0.12	-0.3630599	0.07938892	6.97E-06
G	C	0.02	-0.8683518	0.1904982	7.44E-06
T	G	0.01	0.9158341	0.1542708	9.65E-09
T	C	0.01	-0.7168239	0.1175777	3.71E-09
A	G	0.02	-0.395699	0.06545912	4.90E-09
G	T	0.02	-0.395699	0.06545912	4.90E-09
C	T	0.02	-0.4177125	0.06711399	1.84E-09
C	A	0.01	-0.6996851	0.1147368	3.62E-09
A	C	0.01	-0.7575582	0.1254808	5.42E-09
G	A	0.02	-0.592948	0.0994166	8.01E-09
A	T	0.02	0.4684189	0.07824322	6.71E-09
G	A	0.01	-0.5810351	0.09755233	9.16E-09
G	A	0.01	-0.5810351	0.09755233	9.16E-09
C	G	0.02	-0.3616928	0.06076323	8.14E-09
G	A	0.02	-0.6165221	0.1028239	6.96E-09
AAGAT	A	0.04	-0.2890642	0.04488089	5.45E-10
C	A	0.02	-0.4684767	0.0768344	3.93E-09
C	G	0.17	-0.170274	0.02650184	6.01E-10
T	C	0.17	-0.1642569	0.02641052	1.89E-09

A	G	0.17	-0.159995	0.02648535	5.01E-09
T	C	0.02	-0.5409301	0.09091737	8.18E-09
G	A	0.02	-0.5507106	0.09274993	8.72E-09
C	T	0.02	-0.5409301	0.09091737	8.18E-09
G	A	0.02	-0.5409301	0.09091737	8.18E-09
C	A	0.01	-0.6800068	0.1143497	8.31E-09
T	C	0.01	-0.7010801	0.1104514	9.27E-10
A	G	0.01	-0.7105224	0.1164487	3.60E-09
T	C	0.01	-0.7010801	0.1104514	9.27E-10
T	A	0.02	0.5424665	0.09065227	8.34E-09
A	G	0.02	0.7045898	0.1134066	1.94E-09
G	A	0.02	-0.7004736	0.1177239	9.23E-09
A	G	0.02	-0.7004736	0.1177239	9.23E-09
G	A	0.03	-0.4470845	0.07197981	2.38E-09
G	A	0.02	-0.5117076	0.08401081	4.54E-09
A	G	0.03	-0.3975883	0.06637302	6.51E-09
C	T	0.03	-0.4075803	0.06743326	4.86E-09
C	T	0.1	-0.2538289	0.04230461	6.18E-09
G	A	0.11	-0.2466018	0.04142298	7.94E-09
G	A	0.1	-0.2585745	0.04342935	7.91E-09
A	G	0.09	-0.2543794	0.04220607	5.41E-09
A	G	0.01	-0.8809717	0.1361348	4.56E-10
C	T	0.02	-0.7667756	0.1268946	5.40E-09
A	G	0.02	-0.7565735	0.1271324	8.79E-09
C	T	0.02	-0.7565735	0.1271324	8.79E-09
A	T	0.01	0.8547339	0.1398977	3.91E-09
C	A	0.05	-0.5470226	0.1190191	6.65E-06
A	G	0.25	0.303003	0.06576881	6.33E-06
A	G	0.27	0.3050461	0.06171299	1.39E-06
T	TAC	0.39	0.2871897	0.06328721	8.58E-06
T	C	0.05	-0.635856	0.138301	6.60E-06
G	GT	0.11	-0.4535704	0.09541598	3.30E-06
G	A	0.01	-1.17105	0.2391139	1.71E-06
C	A	0.03	-0.8886417	0.1742844	6.69E-07
T	C	0.1	-0.4313069	0.09499709	8.49E-06
T	C	0.11	-0.4256643	0.09309311	7.38E-06
A	G	0.11	-0.4251467	0.09177684	5.67E-06
A	T	0.11	-0.4251467	0.09177684	5.67E-06
CCTT	C	0.1	-0.4307336	0.09453014	7.91E-06
C	T	0.04	-0.7054343	0.1513418	4.99E-06
C	G	0.23	0.3035604	0.06721757	9.43E-06
C	G	0.23	0.3034925	0.0672188	9.47E-06
T	C	0.23	0.3035066	0.06723335	9.51E-06
GGTGT	G	0.03	0.8003422	0.1756523	7.91E-06
C	T	0.43	0.2596428	0.05740533	9.15E-06
T	C	0.06	-0.5457857	0.1206303	9.09E-06
T	TACACACAC	0.1	0.4482841	0.09695497	5.89E-06
A	G	0.49	-0.2442094	0.05418978	9.83E-06
C	A	0.04	0.6976764	0.1525752	7.37E-06
A	G	0.02	-1.057722	0.2258206	4.51E-06

G	A	0.02	-1.077754	0.2209517	1.88E-06
A	ATCTC	0.28	-0.2995298	0.06311221	3.41E-06
G	A	0.17	0.3471031	0.07506884	5.88E-06
C	G	0.17	0.3522569	0.07565327	5.10E-06
A	T	0.21	0.3187023	0.06644608	2.72E-06
C	T	0.11	0.4117511	0.09098172	9.05E-06
CT	C	0.08	0.460981	0.1013639	8.22E-06
A	G	0.2	-0.3980551	0.06770062	1.37E-08
T	C	0.02	-0.8442825	0.1839291	6.82E-06
C	T	0.05	0.5608257	0.1244733	9.87E-06
TG	T	0.13	0.3969393	0.08608847	6.23E-06
T	C	0.34	0.2797248	0.0613438	7.79E-06
T	TACAC	0.01	-1.362651	0.2644334	5.17E-07
T	A	0.09	-0.4720995	0.1008025	4.52E-06
A	G	0.03	0.7119109	0.1555799	7.27E-06
T	TAC	0.07	-0.5281184	0.1100987	2.71E-06
T	C	0.12	0.3907605	0.08653863	9.46E-06
G	A	0.25	-0.3202611	0.06746943	3.40E-06
C	T	0.47	0.2547004	0.05507953	5.87E-06
A	G	0.48	0.2536801	0.05532022	6.96E-06
C	G	0.49	0.2510133	0.05523616	8.34E-06
T	C	0.49	0.2510133	0.05523616	8.34E-06
T	C	0.49	0.2555031	0.05520996	5.78E-06
T	C	0.49	0.2521933	0.05532582	7.85E-06
C	T	0.03	0.7338448	0.1619869	8.87E-06
C	G	0.05	-0.5675771	0.1248753	8.31E-06
A	G	0.21	-0.3110453	0.0648617	2.73E-06
T	C	0.06	-0.5523546	0.1157396	3.03E-06
T	C	0.09	-0.455619	0.09538388	2.97E-06
C	T	0.04	-0.6354588	0.1389583	7.36E-06
A	G	0.01	-1.129202	0.2396925	3.99E-06
C	T	0.05	0.6395483	0.1286387	1.22E-06
C	A	0.37	-0.256923	0.05610511	7.16E-06
G	A	0.02	-1.055408	0.2090978	8.53E-07
GC	G	0.02	-1.068335	0.2188979	1.85E-06
T	C	0.02	-1.033382	0.2206664	4.53E-06
A	T	0.02	-0.9659558	0.2027282	3.14E-06
G	A	0.01	-1.264795	0.2672149	3.61E-06
CA	C	0.02	-0.8764118	0.1896831	5.97E-06
G	A	0.2	-0.3381919	0.06911346	1.75E-06
G	A	0.2	-0.3393439	0.06956936	1.88E-06
G	A	0.21	-0.3598485	0.06837112	3.04E-07
C	G	0.18	-0.3711376	0.07324752	7.78E-07
T	C	0.21	-0.35049	0.06845568	6.05E-07
C	T	0.21	-0.3394651	0.06855251	1.33E-06
G	A	0.21	-0.3567281	0.06840744	3.85E-07
C	T	0.21	-0.35049	0.06845568	6.05E-07
CT	C	0.21	-0.3576048	0.06808186	3.20E-07
A	T	0.35	-0.2683654	0.05697366	4.01E-06
C	T	0.35	-0.2581676	0.0570445	9.04E-06

T	C	0.35	-0.2643286	0.05716489	5.88E-06
C	A	0.43	-0.2476933	0.05118888	2.24E-06
C	T	0.02	0.8223059	0.1824229	9.78E-06
G	A	0.12	-0.3675498	0.0763953	2.54E-06
G	A	0.01	-1.092475	0.242571	9.95E-06
G	A	0.41	-0.2717517	0.05887832	6.10E-06
T	G	0.28	-0.275395	0.05479079	9.42E-07
G	A	0.02	-0.507798	0.08441306	6.77E-09
A	G	0.18	-0.1376572	0.0229742	7.60E-09
T	C	0.08	-0.2321048	0.03876734	7.85E-09
T	C	0.08	-0.2319876	0.03892314	9.05E-09
G	C	0.08	-0.2346831	0.03898069	6.58E-09
C	T	0.07	-0.2625906	0.04149444	1.26E-09
G	T	0.07	-0.2412059	0.0394303	3.94E-09
G	A	0.07	-0.2445072	0.03949475	2.65E-09
CTG	C	0.14	-0.2758564	0.04448791	2.49E-09
C	A	0.04	0.4068696	0.06778155	7.67E-09
T	C	0.04	0.3920055	0.06498622	6.57E-09
C	T	0.04	0.3920055	0.06498622	6.57E-09
C	T	0.04	0.3920055	0.06498622	6.57E-09
C	A	0.04	0.3920055	0.06498622	6.57E-09
A	G	0.04	0.3920055	0.06498622	6.57E-09
G	A	0.01	-0.6631992	0.109559	5.49E-09
A	T	0.04	-0.3647293	0.06094025	7.88E-09
C	G	0.02	-0.7811492	0.1300502	7.23E-09
C	T	0.06	-0.2177664	0.03511516	2.48E-09
GA	G	0.41	0.1129926	0.01900339	9.68E-09
A	G	0.02	-0.7200374	0.118128	4.90E-09
G	A	0.01	-0.7385391	0.119299	2.64E-09
G	A	0.02	-0.6059791	0.1017301	9.38E-09
GGGGT	G	0.02	-0.5993664	0.1004456	8.91E-09
T	C	0.01	-1.044401	0.1583313	3.47E-10
G	GGA	0.01	-1.127298	0.1805326	2.07E-09
C	T	0.02	-0.9604118	0.1560045	3.31E-09
T	TAC	0.01	-0.9477568	0.1481005	9.07E-10
A	G	0.01	-0.8297492	0.1306726	1.19E-09
T	G	0.02	-0.536291	0.08980906	8.48E-09
A	G	0.2	-0.1582094	0.0254932	2.81E-09
G	A	0.01	-0.8495137	0.1371122	2.70E-09
G	C	0.21	-0.2161587	0.03523355	3.54E-09
C	T	0.18	-0.2410579	0.03709509	4.87E-10
ATTC	A	0.17	-0.2327123	0.03723811	1.91E-09
A	G	0.18	-0.2447478	0.03655933	1.62E-10
A	T	0.18	-0.2397166	0.03655755	3.51E-10
T	C	0.18	-0.2319692	0.03691642	1.59E-09
G	A	0.18	-0.2301147	0.03722041	2.74E-09
G	T	0.17	-0.2306392	0.03796891	4.90E-09
A	T	0.17	-0.2261882	0.03800343	9.37E-09
G	C	0.18	-0.2412908	0.03677239	3.42E-10
A	G	0.17	-0.2322216	0.03820936	4.81E-09

TATTG	T	0.17	-0.2276736	0.03828888	9.65E-09
C	A	0.17	-0.2379371	0.03786733	1.59E-09
G	A	0.18	-0.2412908	0.03677239	3.42E-10
G	A	0.17	-0.2363236	0.03763409	1.62E-09
G	A	0.21	-0.2191621	0.03520373	2.18E-09
A	G	0.21	-0.2104854	0.03527401	8.64E-09
A	G	0.18	-0.2397166	0.03655755	3.51E-10
C	T	0.17	-0.2433744	0.03787854	7.31E-10
C	G	0.18	-0.2397166	0.03655755	3.51E-10
T	G	0.21	-0.2174087	0.03524828	2.97E-09
A	T	0.2	-0.2170676	0.03626214	7.82E-09
G	A	0.18	-0.2397166	0.03655755	3.51E-10
T	C	0.21	-0.2170251	0.0352317	3.10E-09
C	T	0.2	-0.216237	0.03604608	7.31E-09
G	A	0.18	-0.2390338	0.03660264	4.08E-10
G	A	0.17	-0.2519892	0.03750901	1.42E-10
A	G	0.21	-0.2182971	0.03528903	2.69E-09
T	A	0.22	-0.1894903	0.03138935	6.01E-09
A	G	0.22	-0.1880075	0.03134044	7.34E-09
A	G	0.23	-0.1869454	0.03118972	7.54E-09
G	A	0.02	-1.063465	0.2235475	3.05E-06
T	C	0.4	0.2411136	0.05301983	7.82E-06
TCACAA	T	0.42	0.2360671	0.05250627	9.80E-06
A	G	0.41	0.2492849	0.05286966	3.70E-06
A	C	0.4	0.241851	0.05291675	7.07E-06
C	T	0.41	0.2547014	0.05278827	2.24E-06
A	G	0.41	0.253317	0.0528977	2.64E-06
C	T	0.41	0.2465732	0.05294031	4.79E-06
C	T	0.41	0.2465732	0.05294031	4.79E-06
G	A	0.41	0.249828	0.0529415	3.63E-06
C	T	0.41	0.2560596	0.05261938	1.85E-06
T	G	0.41	0.2465732	0.05294031	4.79E-06
A	AG	0.41	0.2417932	0.05282087	6.85E-06
C	T	0.41	0.2547014	0.05278827	2.24E-06
G	A	0.41	0.2471878	0.05302182	4.70E-06
G	C	0.41	0.2661763	0.05215336	6.03E-07
G	A	0.42	0.2388457	0.05269108	8.34E-06
T	A	0.42	0.2397391	0.05278251	8.01E-06
T	C	0.42	0.2394991	0.05315332	9.39E-06
C	T	0.42	0.2394991	0.05315332	9.39E-06
C	G	0.42	0.2437039	0.05287571	5.95E-06
G	A	0.42	0.253019	0.05317606	3.04E-06
C	T	0.42	0.2445831	0.05316916	6.20E-06
C	T	0.34	-0.2501066	0.05517325	8.33E-06
C	T	0.35	-0.2437983	0.05266484	5.44E-06
C	T	0.08	0.4779153	0.1038867	6.19E-06
C	T	0.08	0.5053567	0.1064045	3.16E-06
C	T	0.08	0.5190367	0.1049863	1.29E-06
G	GACAC	0.03	-0.7861855	0.1646964	2.83E-06
T	A	0.01	1.191285	0.2552233	4.58E-06

ATATGTGTGTG	A	0.02	-0.8670333	0.1924747	9.44E-06
A	AAAACATAACT	0.02	-0.8821816	0.1890271	4.59E-06
CGTGTGT	C	0.04	0.6744686	0.1404333	2.48E-06
CGT	C	0.01	1.147259	0.2508029	6.94E-06
C	A	0.03	0.7166082	0.1543559	5.13E-06
G	T	0.03	0.7069753	0.1533741	5.94E-06
G	A	0.31	-0.2727223	0.05788797	3.76E-06
A	G	0.32	-0.2787642	0.05766382	2.14E-06
T	G	0.31	-0.2991192	0.05802158	4.70E-07
T	G	0.3	-0.2688638	0.05943234	8.68E-06
A	G	0.3	-0.2687074	0.05965092	9.44E-06
C	A	0.06	-0.5708466	0.1157593	1.37E-06
T	C	0.05	-0.5351421	0.1181913	8.53E-06
C	T	0.12	-0.4042592	0.08735276	5.47E-06
C	T	0.12	-0.3896157	0.08580211	8.05E-06
C	A	0.01	1.060038	0.2294514	5.67E-06
T	C	0.29	-0.2640973	0.05873514	9.78E-06
T	C	0.28	-0.2706381	0.05900924	6.58E-06
T	TACAC	0.46	-0.228125	0.05042699	8.68E-06
C	T	0.03	-0.754767	0.1671043	8.95E-06
T	C	0.12	-0.3952968	0.08175671	2.14E-06
C	A	0.02	0.8940807	0.1947598	6.46E-06
TA	T	0.01	-1.172717	0.245639	2.83E-06
C	G	0.35	-0.2563621	0.05621815	7.40E-06
G	A	0.01	-1.20779	0.2582745	4.40E-06
A	G	0.01	1.047776	0.2315498	8.63E-06
A	G	0.02	-1.037224	0.1989156	3.53E-07
G	T	0.09	-0.4725579	0.0931149	6.92E-07
T	G	0.09	-0.4725579	0.0931149	6.92E-07
C	T	0.09	-0.4693848	0.09380762	9.71E-07
G	T	0.09	-0.4725579	0.0931149	6.92E-07
G	A	0.13	-0.3643916	0.07881685	5.59E-06
G	A	0.09	-0.4725579	0.0931149	6.92E-07
A	T	0.09	-0.4725579	0.0931149	6.92E-07
A	G	0.09	-0.4400174	0.09506782	5.46E-06
G	A	0.09	-0.4725579	0.0931149	6.92E-07
AAAC	A	0.09	-0.476185	0.09337005	6.14E-07
G	A	0.08	-0.4959356	0.09378581	2.46E-07
G	A	0.09	-0.4725579	0.0931149	6.92E-07
AAC	A	0.11	0.4011533	0.08782389	7.15E-06
A	AAAAGAAAG	0.05	-0.5916921	0.1271928	4.92E-06
C	T	0.04	0.6216611	0.1382333	9.75E-06
TACAC	T	0.01	-1.236795	0.2485123	1.10E-06
T	TAC	0.11	-0.4228962	0.08963856	3.65E-06
G	A	0.1	0.4147853	0.09135898	8.08E-06
G	C	0.44	-0.2468526	0.05457643	8.71E-06
A	G	0.04	0.6023145	0.1294714	4.91E-06
G	T	0.5	-0.2405351	0.05322939	8.87E-06
G	A	0.5	0.2505169	0.05332856	4.00E-06
A	G	0.5	-0.2615632	0.05326643	1.51E-06

C	T	0.49	0.2399193	0.05310701	8.92E-06
T	A	0.06	0.5039281	0.1113154	8.56E-06
T	G	0.04	0.6510494	0.1266153	5.01E-07
C	A	0.02	1.001916	0.2188001	6.80E-06
G	A	0.03	-0.6929362	0.1532067	8.71E-06
C	T	0.02	-0.8865387	0.1913527	5.35E-06
G	A	0.02	-1.027178	0.2233678	6.24E-06
G	A	0.02	-0.9939586	0.205057	2.02E-06
C	G	0.15	-0.3299115	0.07298562	8.82E-06
T	A	0.06	0.2819083	0.04716644	7.25E-09
C	T	0.01	0.9703983	0.1383948	2.01E-11
T	G	0.01	0.9703983	0.1383948	2.01E-11
T	TC	0.01	0.819626	0.1196817	5.27E-11
A	G	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
A	T	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
C	T	0.01	0.819626	0.1196817	5.27E-11
C	T	0.01	0.819626	0.1196817	5.27E-11
T	C	0.01	0.819626	0.1196817	5.27E-11
C	G	0.01	0.819626	0.1196817	5.27E-11
G	C	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
T	C	0.01	0.819626	0.1196817	5.27E-11
AC	A	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
A	G	0.01	0.819626	0.1196817	5.27E-11
C	T	0.01	0.819626	0.1196817	5.27E-11
C	T	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.819626	0.1196817	5.27E-11
G	A	0.01	0.7836988	0.1245611	1.27E-09
G	A	0.01	0.819626	0.1196817	5.27E-11
G	T	0.01	0.819626	0.1196817	5.27E-11
A	T	0.01	0.8225301	0.1350248	3.81E-09
G	A	0.01	0.819626	0.1196817	5.27E-11
A	G	0.01	0.819626	0.1196817	5.27E-11
T	C	0.02	0.7515857	0.1172859	6.61E-10
A	G	0.02	0.7515857	0.1172859	6.61E-10
T	C	0.02	0.7515857	0.1172859	6.61E-10
C	G	0.02	0.7515857	0.1172859	6.61E-10
C	T	0.02	0.7515857	0.1172859	6.61E-10
C	T	0.01	0.7558929	0.1276088	9.42E-09
AG	A	0.02	0.7515857	0.1172859	6.61E-10
T	A	0.02	0.7515857	0.1172859	6.61E-10
A	G	0.02	0.7515857	0.1172859	6.61E-10
A	G	0.02	0.7834981	0.1109279	1.48E-11
A	AT	0.02	0.7515857	0.1172859	6.61E-10
C	T	0.01	0.9493385	0.1591604	7.56E-09
C	T	0.03	-0.369946	0.05816137	8.63E-10

A	G	0.33	-0.2076858	0.03466477	6.95E-09
C	G	0.02	0.5846142	0.09686021	5.40E-09
T	G	0.04	0.4736796	0.07695321	2.82E-09
A	G	0.02	0.5596464	0.08729303	6.65E-10
G	T	0.01	-1.191193	0.2623081	8.01E-06
CAAACAAAACA	C	0.14	0.3979826	0.07434672	1.77E-07
C	T	0.13	0.3377756	0.07517523	9.89E-06
CA	C	0.49	-0.240458	0.05213206	5.84E-06
C	T	0.03	-0.7552444	0.1659762	7.70E-06
C	G	0.05	-0.5628918	0.1207439	4.68E-06
G	A	0.18	0.300421	0.06670759	9.45E-06
C	T	0.15	0.3368668	0.07435006	8.39E-06
G	A	0.14	0.3444276	0.07631762	9.07E-06
T	TAA	0.15	0.3338437	0.07410526	9.39E-06
G	A	0.15	0.347421	0.07479555	5.05E-06
C	G	0.16	0.3255977	0.07179174	8.22E-06
C	T	0.15	0.3602316	0.07423147	1.96E-06
AT	A	0.15	0.3343403	0.07441517	9.90E-06
ATTATTTATTTATTT/	C	0.03	-0.708006	0.157376	9.65E-06
C	T	0.04	-0.6166735	0.132958	5.21E-06
G	A	0.04	-0.6166735	0.132958	5.21E-06
G	TACACACACACACACA	0.03	-0.6610863	0.1462797	8.82E-06
G	A	0.37	0.248305	0.05414005	6.56E-06
C	T	0.37	0.248305	0.05414005	6.56E-06
T	C	0.37	0.2483714	0.05429179	6.91E-06
T	C	0.01	-1.249246	0.2651652	3.75E-06
C	T	0.01	-1.240143	0.2651163	4.36E-06
C	T	0.01	-1.166923	0.2457527	3.17E-06
T	TTCTC	0.02	-0.7925788	0.1716237	5.70E-06
AG	A	0.49	0.2382131	0.05160946	5.76E-06
C	CA	0.48	0.2425345	0.05163604	4.00E-06
T	C	0.48	0.2343148	0.0516381	8.14E-06
C	CA	0.48	0.2398806	0.05152406	4.81E-06
A	G	0.48	0.2349067	0.05160181	7.63E-06
GA	G	0.38	-0.2629713	0.05502157	2.75E-06
A	G	0.1	-0.425789	0.09312889	6.99E-06
A	G	0.02	-0.8039865	0.1756047	6.80E-06
C	T	0.05	-0.5704812	0.12358	5.74E-06
G	C	0.25	0.2667827	0.05854859	7.49E-06
G	T	0.23	0.2850056	0.06085898	4.26E-06
C	T	0.23	0.2791539	0.06087375	6.58E-06
A	G	0.23	0.2777059	0.06044639	6.34E-06
T	C	0.24	0.2863636	0.06013954	2.98E-06
C	T	0.26	0.2584639	0.05744936	9.64E-06
T	C	0.21	0.2967058	0.06541199	8.20E-06
G	A	0.21	0.2954286	0.06536574	8.81E-06
C	T	0.18	0.3201343	0.0678483	3.63E-06
T	TTTC	0.2	0.3060605	0.0673116	7.81E-06
A	C	0.21	0.2987118	0.06526564	6.84E-06
C	CAT	0.21	0.3171509	0.06838651	5.22E-06

T	A	0.07	0.4938244	0.1063297	5.07E-06
T	G	0.03	-0.7034047	0.1455315	2.14E-06
C	A	0.03	-0.7531074	0.1478994	6.34E-07
C	G	0.09	0.4330311	0.08902122	1.86E-06
C	T	0.12	0.3950932	0.08055829	1.54E-06
A	T	0.16	0.3251456	0.07178185	8.43E-06
G	A	0.13	0.3532245	0.07806237	8.61E-06
A	AT	0.09	0.4263757	0.09186872	5.14E-06
A	G	0.16	0.3251456	0.07178185	8.43E-06
T	C	0.16	0.3251456	0.07178185	8.43E-06
A	G	0.16	0.3251456	0.07178185	8.43E-06
G	A	0.16	0.3251456	0.07178185	8.43E-06
T	C	0.16	0.3251456	0.07178185	8.43E-06
G	A	0.09	0.4330311	0.08902122	1.86E-06
C	T	0.09	0.4330311	0.08902122	1.86E-06
T	C	0.09	0.4330311	0.08902122	1.86E-06
T	C	0.15	0.3285259	0.07222228	7.75E-06
C	T	0.09	0.4358107	0.08878107	1.51E-06
A	G	0.1	0.4842206	0.0902823	1.68E-07
T	C	0.12	0.3847915	0.08298105	5.23E-06
T	C	0.12	0.3811611	0.08309105	6.54E-06
G	A	0.1	0.4842206	0.0902823	1.68E-07
G	A	0.1	0.4842206	0.0902823	1.68E-07
G	A	0.07	0.5153397	0.1018538	7.41E-07
G	A	0.09	0.4922531	0.09070879	1.22E-07
A	G	0.08	0.4459861	0.09595669	4.99E-06
A	G	0.02	-0.8220843	0.1809196	7.92E-06
G	A	0.06	-0.5080521	0.1090269	4.73E-06
CA	C	0.21	0.3059159	0.06624998	5.71E-06
G	A	0.38	0.2509993	0.05526012	7.98E-06
C	T	0.38	0.2512266	0.05521705	7.71E-06
C	T	0.06	-0.5218132	0.1138072	6.60E-06
C	T	0.03	-0.7074581	0.1493928	3.36E-06
G	T	0.21	-0.2924221	0.06466777	8.72E-06
G	A	0.33	0.2648431	0.05636642	3.97E-06
C	T	0.01	-1.08656	0.241334	9.51E-06
A	T	0.01	-1.08656	0.241334	9.51E-06
C	T	0.01	-1.212916	0.2628778	5.80E-06
A	G	0.01	-1.212916	0.2628778	5.80E-06
G	A	0.1	0.4270079	0.09000639	3.23E-06
TG	T	0.37	-0.2619202	0.05428734	2.23E-06
T	C	0.05	-0.5192761	0.1154409	9.68E-06
G	T	0.05	-0.5651139	0.1145875	1.36E-06
T	A	0.08	-0.4375366	0.09515082	6.22E-06
G	T	0.13	-0.3535985	0.07851641	9.46E-06
C	G	0.19	0.2969343	0.06588882	9.33E-06
C	CAA	0.18	0.3108546	0.06724123	5.57E-06
C	G	0.18	0.3070068	0.06720936	7.12E-06
G	A	0.18	0.3092392	0.06792022	7.61E-06
T	G	0.19	0.3109912	0.06697135	5.08E-06

G	A	0.18	0.305253	0.06738353	8.41E-06
A	T	0.34	0.2481113	0.0541174	6.61E-06
C	T	0.29	-0.2712308	0.05832224	4.93E-06
C	T	0.28	-0.3051826	0.05873787	3.84E-07
A	G	0.43	0.2541313	0.05284572	2.40E-06
C	T	0.42	0.2545708	0.05310421	2.57E-06
G	A	0.01	-1.158517	0.2539436	7.31E-06
CA	C	0.02	-0.8555785	0.1848073	5.41E-06
CA	C	0.07	-0.4753419	0.1013344	4.11E-06
G	A	0.47	0.2418371	0.05288022	6.95E-06
G	A	0.06	-0.5040309	0.1069101	3.69E-06
C	A	0.01	-1.015651	0.2235086	7.91E-06
G	A	0.04	-0.6672933	0.1416692	3.77E-06
A	G	0.01	-0.6735521	0.1053588	7.24E-10
G	C	0.01	-0.7365747	0.1084679	7.44E-11
G	A	0.08	-0.2560806	0.04311699	8.56E-09
C	T	0.01	0.8063214	0.1253475	5.69E-10
T	G	0.01	0.8063214	0.1253475	5.69E-10
T	TC	0.01	0.6792469	0.108305	1.40E-09
A	G	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
A	T	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
C	T	0.01	0.6792469	0.108305	1.40E-09
C	T	0.01	0.6792469	0.108305	1.40E-09
T	C	0.01	0.6792469	0.108305	1.40E-09
C	G	0.01	0.6792469	0.108305	1.40E-09
G	C	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
T	C	0.01	0.6792469	0.108305	1.40E-09
AC	A	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
A	G	0.01	0.6792469	0.108305	1.40E-09
C	T	0.01	0.6792469	0.108305	1.40E-09
C	T	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
G	T	0.01	0.6792469	0.108305	1.40E-09
G	A	0.01	0.6792469	0.108305	1.40E-09
A	G	0.01	0.6792469	0.108305	1.40E-09
A	G	0.02	0.6534809	0.1003031	3.57E-10
G	A	0.08	-0.2728218	0.04465679	3.41E-09
T	A	0.08	-0.2631893	0.0434384	4.48E-09
G	A	0.08	-0.2736428	0.04570459	6.61E-09
C	T	0.02	-0.8256246	0.1385176	7.87E-09
G	A	0.02	-0.3447565	0.05761444	6.74E-09
A	T	0.01	0.8261521	0.1298558	8.87E-10
C	T	0.01	0.7801541	0.1313455	8.88E-09
T	C	0.01	0.7801541	0.1313455	8.88E-09

T	C	0.01	0.7801541	0.1313455	8.88E-09
G	A	0.01	0.7801541	0.1313455	8.88E-09
C	A	0.01	0.7801541	0.1313455	8.88E-09
G	A	0.01	0.8542973	0.1395025	3.29E-09
A	G	0.03	0.6007945	0.09977385	5.49E-09
C	G	0.39	0.1630142	0.026969	5.57E-09
T	C	0.39	0.161001	0.02704682	9.06E-09
C	T	0.39	0.161001	0.02704682	9.06E-09
A	G	0.39	0.162375	0.02699341	6.50E-09
C	G	0.39	0.161001	0.02704682	9.06E-09
C	A	0.39	0.162375	0.02699341	6.50E-09
GTGTCTATA	G	0.01	-0.5716412	0.09311322	2.94E-09
C	T	0.01	-0.7800412	0.1304957	7.45E-09
T	TACACAC	0.09	0.2346762	0.03909575	6.12E-09
T	A	0.02	0.3709244	0.06242443	9.22E-09
A	T	0.02	0.3709244	0.06242443	9.22E-09
TA	T	0.05	-0.4060215	0.06514623	2.05E-09
C	T	0.02	-0.7334387	0.1224221	6.82E-09
CTT	C	0.01	-0.7544755	0.1218018	2.32E-09
C	CGTGTGTGT	0.01	-0.5035235	0.07933656	9.19E-10
C	T	0.02	-0.7890699	0.1331673	9.48E-09
G	A	0.12	-0.12666	0.02134339	8.98E-09
C	A	0.12	-0.1275918	0.02137377	7.44E-09
C	T	0.12	-0.12666	0.02134339	8.98E-09
C	T	0.12	-0.12666	0.02134339	8.98E-09
T	C	0.12	-0.12666	0.02134339	8.98E-09
G	A	0.12	-0.12666	0.02134339	8.98E-09
G	GTCTATCTATCTA	0.22	0.1487062	0.0238756	1.78E-09
C	T	0.01	0.914053	0.1507403	4.38E-09
T	G	0.01	0.914053	0.1507403	4.38E-09
T	TC	0.01	0.7865553	0.1300927	4.82E-09
A	G	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
A	T	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
C	T	0.01	0.7865553	0.1300927	4.82E-09
C	T	0.01	0.7865553	0.1300927	4.82E-09
T	C	0.01	0.7865553	0.1300927	4.82E-09
C	G	0.01	0.7865553	0.1300927	4.82E-09
G	C	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
T	C	0.01	0.7865553	0.1300927	4.82E-09
AC	A	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
A	G	0.01	0.7865553	0.1300927	4.82E-09
C	T	0.01	0.7865553	0.1300927	4.82E-09
C	T	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09

G	T	0.01	0.7865553	0.1300927	4.82E-09
G	A	0.01	0.7865553	0.1300927	4.82E-09
A	G	0.01	0.7865553	0.1300927	4.82E-09
A	G	0.02	0.7292938	0.1207322	4.97E-09
T	C	0.01	-0.8716211	0.1430267	3.96E-09
T	G	0.01	-0.9494811	0.1378264	4.52E-11
G	T	0.01	-0.9494811	0.1378264	4.52E-11
GA	G	0.01	-0.9494811	0.1378264	4.52E-11
T	C	0.01	-0.9494811	0.1378264	4.52E-11
A	G	0.02	-0.803552	0.1299257	2.42E-09
T	C	0.45	0.1388768	0.02348001	9.80E-09
T	G	0.01	-1.036521	0.1724017	5.96E-09
G	T	0.01	-1.036521	0.1724017	5.96E-09
GA	G	0.01	-1.036521	0.1724017	5.96E-09
T	C	0.01	-1.036521	0.1724017	5.96E-09
C	T	0.06	-0.2666338	0.04499285	9.18E-09
G	A	0.02	0.5275144	0.08669064	3.90E-09
C	T	0.01	0.874085	0.1461703	6.91E-09
A	G	0.02	-0.7796172	0.1205566	4.67E-10
C	G	0.02	-0.7535267	0.1235486	3.61E-09
T	C	0.02	-0.810479	0.1258305	5.40E-10
G	T	0.02	0.520682	0.08627574	6.01E-09
C	T	0.04	-0.5357599	0.08782175	3.60E-09
G	A	0.04	0.3154505	0.06825292	5.60E-06
A	G	0.29	0.150905	0.02966023	6.47E-07
T	A	0.28	0.1420587	0.02997541	3.30E-06
A	G	0.28	0.1440409	0.02997881	2.45E-06
T	C	0.28	0.1358195	0.03011816	9.21E-06
ATTTCCTTC	A	0.28	0.1393722	0.03055845	7.35E-06
T	A	0.28	0.1408468	0.03019676	4.63E-06
T	C	0.37	0.124404	0.02706183	6.26E-06
C	T	0.37	0.1243874	0.02706178	6.27E-06
C	T	0.37	0.1231636	0.02709325	7.85E-06
A	G	0.37	0.124404	0.02706183	6.26E-06
A	G	0.34	0.1366556	0.02718991	8.69E-07
G	A	0.34	0.1353578	0.02721682	1.12E-06
C	T	0.37	0.1231636	0.02709325	7.85E-06
G	A	0.37	0.1226708	0.02704506	8.21E-06
C	T	0.37	0.1219698	0.02711873	9.70E-06
AT	A	0.37	0.125298	0.02719846	5.99E-06
G	T	0.37	0.1242017	0.02707445	6.53E-06
A	T	0.37	0.1273862	0.02710717	3.96E-06
A	G	0.37	0.1261498	0.02713942	4.98E-06
T	C	0.37	0.1221321	0.02702273	8.81E-06
T	C	0.37	0.1291164	0.02707114	2.87E-06
C	G	0.37	0.1262702	0.0270829	4.67E-06
G	A	0.02	0.4371533	0.09539834	6.68E-06
G	C	0.25	0.1363938	0.03027509	9.39E-06
C	CT	0.19	-0.1369422	0.02925979	4.31E-06
C	T	0.15	-0.1708459	0.03668739	4.79E-06

G	A	0.14	-0.1670976	0.03710377	9.45E-06
G	T	0.14	-0.1704404	0.03726432	6.94E-06
T	C	0.14	-0.1684452	0.03702656	7.73E-06
C	A	0.03	0.3335207	0.07076262	3.71E-06
T	C	0.31	-0.1283586	0.02733529	4.02E-06
A	G	0.05	-0.2810948	0.06053412	5.08E-06
A	C	0.37	0.122284	0.02651571	5.86E-06
C	G	0.1	0.2017883	0.04444393	8.04E-06
G	A	0.12	0.1603919	0.03567019	9.75E-06
A	G	0.42	-0.1237979	0.02510855	1.36E-06
C	CT	0.28	-0.1342828	0.02815467	2.88E-06
C	T	0.34	0.1271922	0.02728078	4.67E-06
C	T	0.02	0.3969783	0.08583571	5.53E-06
CAA	C	0.06	0.2188313	0.04872487	9.98E-06
G	A	0.08	0.2082167	0.0446223	4.59E-06
A	T	0.49	0.1194559	0.02650734	9.33E-06
G	A	0.48	0.127867	0.02666088	2.55E-06
T	C	0.48	0.1248984	0.02666384	4.24E-06
G	C	0.48	0.1199868	0.02662143	9.31E-06
T	C	0.48	0.1213949	0.02657724	7.13E-06
T	A	0.48	0.1204838	0.02662179	8.58E-06
C	T	0.48	0.1248026	0.02652623	3.86E-06
T	C	0.48	0.1225155	0.0266381	6.20E-06
G	T	0.48	0.1226344	0.02701525	8.07E-06
T	G	0.29	0.1260423	0.02604158	2.08E-06
GC	G	0.26	-0.1341955	0.0296457	8.54E-06
C	CTGTGTG	0.02	0.4590467	0.09807418	4.30E-06
T	C	0.43	0.1257591	0.02621298	2.53E-06
A	G	0.43	0.1217412	0.02628999	5.39E-06
T	TA	0.43	0.1196249	0.02603972	6.34E-06
T	C	0.43	0.1220006	0.02619258	4.77E-06
T	C	0.43	0.1229007	0.02624283	4.25E-06
T	C	0.43	0.1204525	0.02622536	6.37E-06
A	AGATGAATG	0.32	0.1377686	0.02865062	2.40E-06
T	A	0.41	0.1233964	0.02642473	4.52E-06
G	A	0.41	0.1247154	0.02650361	3.84E-06
C	G	0.44	-0.1294521	0.02567953	8.09E-07
G	C	0.19	0.1602604	0.03302007	1.95E-06
G	A	0.19	0.1643878	0.03356169	1.59E-06
G	A	0.19	0.1514758	0.03327616	7.64E-06
G	A	0.19	0.1614509	0.0335987	2.44E-06
G	T	0.19	0.1653474	0.03333465	1.19E-06
A	G	0.19	0.1645751	0.03356513	1.55E-06
G	A	0.2	0.1573965	0.03283826	2.58E-06
C	T	0.19	0.1572049	0.03365253	4.49E-06
G	A	0.19	0.1572049	0.03365253	4.49E-06
C	G	0.15	0.1765977	0.03555463	1.15E-06
C	T	0.17	-0.1559196	0.03408322	6.91E-06
C	CT	0.1	-0.1929919	0.0425869	8.35E-06
TTTTTA	T	0.04	0.3164919	0.07042009	9.84E-06

C	A	0.04	0.3186852	0.06891396	5.54E-06
C	G	0.44	0.1338767	0.02947178	7.97E-06
A	G	0.11	-0.1916139	0.04225719	8.25E-06
T	G	0.01	1.005422	0.1687779	8.78E-09
T	C	0.02	-0.8153477	0.1347034	4.76E-09
C	T	0.01	1.004073	0.1485567	8.89E-11
T	G	0.01	1.004073	0.1485567	8.89E-11
T	TC	0.01	0.8547522	0.1283501	1.58E-10
A	G	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
A	T	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
C	T	0.01	0.8547522	0.1283501	1.58E-10
C	T	0.01	0.8547522	0.1283501	1.58E-10
T	C	0.01	0.8547522	0.1283501	1.58E-10
C	G	0.01	0.8547522	0.1283501	1.58E-10
G	C	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
T	C	0.01	0.8547522	0.1283501	1.58E-10
AC	A	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
A	G	0.01	0.8547522	0.1283501	1.58E-10
C	T	0.01	0.8547522	0.1283501	1.58E-10
C	T	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8225682	0.1338862	2.86E-09
G	A	0.01	0.8547522	0.1283501	1.58E-10
G	T	0.01	0.8547522	0.1283501	1.58E-10
G	A	0.01	0.8547522	0.1283501	1.58E-10
A	G	0.01	0.8547522	0.1283501	1.58E-10
T	C	0.02	0.7991579	0.1257793	8.97E-10
A	G	0.02	0.7991579	0.1257793	8.97E-10
T	C	0.02	0.7991579	0.1257793	8.97E-10
C	G	0.02	0.7991579	0.1257793	8.97E-10
C	T	0.02	0.7991579	0.1257793	8.97E-10
C	T	0.01	0.8191642	0.1361136	5.66E-09
AG	A	0.02	0.7991579	0.1257793	8.97E-10
T	A	0.02	0.7991579	0.1257793	8.97E-10
A	G	0.02	0.7991579	0.1257793	8.97E-10
A	G	0.02	0.8466826	0.1186519	9.57E-12
A	AT	0.02	0.7991579	0.1257793	8.97E-10
C	T	0.02	-0.4996041	0.08277572	5.20E-09
T	A	0.01	-0.7840913	0.1288793	4.04E-09
C	CA	0.29	-0.16432	0.02524036	3.74E-10
C	T	0.28	-0.1555637	0.02588096	5.93E-09
T	C	0.23	-0.1774613	0.02651753	1.32E-10
T	C	0.23	-0.1751211	0.02629719	1.60E-10
A	G	0.24	-0.1543981	0.02561204	5.40E-09
T	C	0.25	-0.1593768	0.02482812	6.26E-10

C	T	0.23	-0.1806367	0.02650436	6.46E-11
A	G	0.23	-0.1791128	0.02625422	6.20E-11
C	G	0.23	-0.1707976	0.02616784	3.40E-10
T	G	0.27	-0.1613611	0.02577116	1.51E-09
G	C	0.26	-0.1628324	0.02585468	1.23E-09
GGTGTGTGTGTGT	G	0.01	-1.054831	0.1774133	8.37E-09
C	T	0.02	0.5840645	0.09581059	3.90E-09
A	G	0.02	0.5840645	0.09581059	3.90E-09
C	G	0.02	0.5840645	0.09581059	3.90E-09
A	G	0.02	0.7096288	0.1153488	2.88E-09
T	A	0.01	0.7661864	0.128836	8.31E-09
T	C	0.01	-0.830684	0.1392387	7.55E-09
C	T	0.12	0.2775857	0.04521847	3.46E-09
C	T	0.12	0.2734679	0.04433072	2.95E-09
T	C	0.12	0.2734679	0.04433072	2.95E-09
C	T	0.12	0.2779569	0.04472195	2.30E-09
G	C	0.01	0.8854651	0.1444491	3.18E-09
C	T	0.01	0.7496662	0.1210331	2.29E-09
G	C	0.01	0.7064829	0.1160479	4.07E-09
G	A	0.01	0.6631844	0.1075745	3.11E-09
T	C	0.01	0.6631844	0.1075745	3.11E-09
G	A	0.01	0.6073901	0.09712756	1.57E-09
C	T	0.01	0.6302107	0.1041357	4.75E-09
GT	G	0.02	0.5945572	0.09295838	7.36E-10
C	G	0.01	0.5758594	0.09361505	3.14E-09
G	A	0.01	0.6700323	0.112196	7.27E-09
T	C	0.01	0.7628057	0.1253174	3.95E-09
T	C	0.01	0.7628057	0.1253174	3.95E-09
G	A	0.01	0.6825909	0.1100506	2.09E-09
T	C	0.01	0.8528573	0.1403892	4.16E-09
TTTTC	T	0.03	0.4029303	0.06625549	4.14E-09
GGTGTGTGTGTGT	G	0.01	-1.129498	0.1835884	2.72E-09
G	T	0.01	0.6549917	0.1051414	1.82E-09
G	A	0.02	0.7704722	0.1266231	4.00E-09
A	G	0.01	0.9292292	0.1404424	2.14E-10
C	T	0.01	0.8078592	0.1354638	7.87E-09
G	A	0.21	0.1400111	0.02361079	9.85E-09
G	A	0.21	0.1400111	0.02361079	9.85E-09
T	C	0.38	0.2025792	0.03240841	1.78E-09
GT	G	0.01	0.6034653	0.09799293	3.19E-09
C	CAT	0.01	0.6621336	0.1108851	7.41E-09
T	TA	0.02	0.4807922	0.08039558	7.06E-09
C	T	0.01	0.6695249	0.1094444	3.47E-09
C	A	0.02	0.6406503	0.1016565	1.45E-09
G	A	0.02	0.6406503	0.1016565	1.45E-09
T	TCAAA	0.02	0.5928776	0.09909006	8.02E-09
T	C	0.01	0.6444707	0.1084835	9.27E-09
T	C	0.01	0.6444707	0.1084835	9.27E-09
A	T	0.02	0.556595	0.09231179	5.46E-09
G	A	0.02	0.5380446	0.09077021	9.43E-09

T	C	0.02	0.5380446	0.09077021	9.43E-09
G	A	0.05	-0.4661833	0.07878554	9.84E-09
GCAAT	G	0.02	-0.7573784	0.1277744	9.80E-09
T	C	0.01	-0.9736704	0.1539145	1.13E-09
C	T	0.03	0.50713	0.08283878	3.42E-09
C	G	0.03	0.5313397	0.08378937	1.03E-09
G	A	0.01	0.5731313	0.1170408	1.60E-06
G	A	0.2	-0.1516477	0.03284267	5.72E-06
G	A	0.2	-0.1473856	0.03261907	8.86E-06
C	T	0.2	-0.1488404	0.03244705	6.54E-06
C	T	0.19	-0.1533673	0.03292231	4.76E-06
A	G	0.49	0.1060286	0.02320553	7.08E-06
A	C	0.02	0.4814999	0.09938346	2.03E-06
G	C	0.02	0.4666199	0.1031323	8.62E-06
T	C	0.02	0.4263076	0.09054423	3.80E-06
T	C	0.02	0.4263076	0.09054423	3.80E-06
G	A	0.05	0.2619633	0.05737236	7.18E-06
T	G	0.05	0.2627541	0.05790356	8.13E-06
C	CATAA	0.04	0.3090927	0.06332428	1.72E-06
A	G	0.33	-0.12132	0.02599069	4.56E-06
G	A	0.39	-0.1065678	0.02369738	9.73E-06
T	C	0.02	0.4590138	0.1009394	7.80E-06
G	A	0.08	0.2023022	0.0447726	8.86E-06
A	G	0.12	0.1596025	0.03486232	6.81E-06
C	A	0.13	0.1769604	0.03936325	9.79E-06
G	A	0.11	0.1808743	0.04017932	9.53E-06
A	ATT	0.02	0.4811612	0.1019016	3.57E-06
GAGGAAGGA	G	0.03	0.3606122	0.07865708	6.61E-06
C	T	0.01	0.5129196	0.1114474	6.11E-06
A	G	0.01	0.5129196	0.1114474	6.11E-06
C	CA	0.05	0.2595249	0.05762457	9.45E-06
C	CTCTT	0.05	0.2330131	0.04832152	2.26E-06
T	C	0.01	0.5553421	0.1223948	8.15E-06
A	G	0.27	-0.1324942	0.02753192	2.36E-06
G	A	0.02	0.4778424	0.09950522	2.47E-06
G	A	0.19	0.1430489	0.03138246	7.43E-06
A	AGTGTGTGTGTGT	0.13	-0.1826939	0.03878316	3.76E-06
AACACACAC	A	0.03	0.3216069	0.07101073	8.45E-06
G	T	0.46	0.1070493	0.02347095	7.34E-06
C	T	0.47	0.1072357	0.02351414	7.36E-06
G	T	0.41	-0.1134897	0.02501274	8.15E-06
A	T	0.42	-0.1158221	0.02278881	6.64E-07
T	TCACA	0.01	0.4882289	0.1065116	6.64E-06
CT	C	0.04	0.3041185	0.06216433	1.63E-06
A	G	0.04	0.3060974	0.06472431	3.45E-06
G	A	0.04	0.3060974	0.06472431	3.45E-06
T	A	0.04	0.3060974	0.06472431	3.45E-06
A	G	0.04	0.3060974	0.06472431	3.45E-06
C	T	0.04	0.2970909	0.06536717	7.88E-06
A	G	0.04	0.2970909	0.06536717	7.88E-06

T	C	0.04	0.2970909	0.06536717	7.88E-06
G	A	0.04	0.3044142	0.06565312	5.24E-06
C	T	0.04	0.2970909	0.06536717	7.88E-06
G	T	0.04	0.2970909	0.06536717	7.88E-06
A	T	0.04	0.2970909	0.06536717	7.88E-06
A	G	0.07	0.254185	0.0488216	3.65E-07
G	T	0.33	-0.1236577	0.0262567	3.78E-06
A	G	0.39	0.1179665	0.0239316	1.37E-06
CCTTTT	C	0.02	0.4204869	0.09112095	5.79E-06
C	T	0.01	0.5672925	0.1188677	2.84E-06
A	G	0.01	0.4896176	0.1077136	7.86E-06
C	T	0.21	0.1501947	0.03161553	3.13E-06
C	T	0.21	0.14392	0.03120134	5.84E-06
A	C	0.18	0.1493332	0.03286369	7.91E-06
C	A	0.36	0.1162543	0.02560469	8.04E-06
G	A	0.4	-0.1156758	0.02558948	8.78E-06
CTT	C	0.03	0.2832147	0.06092383	4.97E-06
C	T	0.3	-0.1185045	0.02614774	8.34E-06
G	GGCTGGCAGAGGGCA	0.21	0.1628032	0.03213353	7.17E-07
C	G	0.2	-0.1415635	0.03150551	9.89E-06
A	G	0.2	-0.1429716	0.03167409	9.04E-06
T	G	0.2	-0.1423538	0.03135041	8.03E-06
C	T	0.2	-0.1449242	0.03161436	6.63E-06
A	G	0.07	0.246103	0.05144826	2.70E-06
T	C	0.06	-0.2656598	0.05602958	3.27E-06
A	G	0.1	-0.1944183	0.04306696	9.02E-06
A	T	0.31	-0.1476669	0.02877467	5.23E-07
T	C	0.1	-0.2113849	0.04454814	3.21E-06
G	A	0.02	0.4182861	0.09176299	7.43E-06
C	A	0.11	-0.2248186	0.04445317	7.48E-07
A	G	0.19	-0.1506388	0.0335184	9.85E-06
A	C	0.19	-0.1527447	0.03354981	7.61E-06
A	G	0.33	-0.1344305	0.02953911	7.68E-06
C	A	0.23	0.1403601	0.03108422	8.97E-06
T	C	0.31	-0.1277307	0.02748853	5.01E-06
C	T	0.2	0.1539288	0.03321663	5.30E-06
T	C	0.45	0.11963	0.02575627	5.06E-06
T	C	0.4	0.1170828	0.02508984	4.59E-06
C	T	0.31	0.1273921	0.02805153	8.01E-06
A	G	0.37	0.123591	0.02732993	8.71E-06
C	T	0.45	0.1232404	0.02709273	7.75E-06
A	G	0.36	-0.1259133	0.02737856	6.20E-06
G	A	0.38	0.1214623	0.02681129	8.41E-06
T	C	0.03	-0.3623767	0.07788993	4.89E-06
C	T	0.03	-0.3699185	0.08170785	8.52E-06
G	A	0.03	-0.3629368	0.07825915	5.22E-06
T	A	0.25	-0.2597432	0.04298229	5.76E-09
A	C	0.25	-0.2603247	0.0434284	7.46E-09
G	A	0.25	-0.2647573	0.04357493	4.84E-09
CT	C	0.25	-0.268922	0.04395777	3.87E-09

TTTTGTGTGTGTGTG	T	0.17	-0.2978638	0.04955942	6.86E-09
T	C	0.27	-0.2600726	0.04247927	3.78E-09
A	G	0.27	-0.2600726	0.04247927	3.78E-09
G	A	0.26	-0.2628666	0.04282764	3.48E-09
T	G	0.26	-0.2564894	0.04274661	7.23E-09
T	C	0.27	-0.2600726	0.04247927	3.78E-09
C	G	0.27	-0.2602166	0.04247046	3.68E-09
G	A	0.27	-0.2642335	0.04266018	2.57E-09
C	G	0.26	-0.2595584	0.04286337	5.40E-09
A	C	0.26	-0.2582568	0.04291556	6.59E-09
G	A	0.26	-0.2551862	0.04269125	8.16E-09
A	G	0.02	0.7767998	0.1219842	8.60E-10
A	G	0.02	0.8112296	0.1341559	5.01E-09
GT	G	0.01	0.6955051	0.1145817	4.65E-09
C	T	0.07	0.2990875	0.04792252	1.75E-09
A	G	0.02	0.7529361	0.1239692	4.61E-09
C	G	0.02	0.7529361	0.1239692	4.61E-09
G	A	0.02	0.7529361	0.1239692	4.61E-09
G	A	0.02	0.7529361	0.1239692	4.61E-09
C	T	0.02	0.7529361	0.1239692	4.61E-09
G	A	0.02	0.7529361	0.1239692	4.61E-09
T	TC	0.05	0.5868421	0.09688247	4.73E-09
T	C	0.26	0.2876119	0.04855558	9.72E-09
G	A	0.02	0.7408687	0.1250048	9.66E-09
CA	C	0.01	0.6689699	0.1094544	3.57E-09
T	A	0.03	0.6584027	0.1063113	2.38E-09
C	A	0.02	-0.7222776	0.1121945	5.82E-10
C	T	0.03	-0.3915485	0.0716054	9.93E-08
T	C	0.11	-0.1856474	0.03929743	3.53E-06
CTT	C	0.1	-0.1943497	0.04118894	3.63E-06
T	C	0.11	-0.1889278	0.04017804	3.90E-06
G	A	0.02	-0.4454359	0.09562341	4.76E-06
A	G	0.05	-0.2772635	0.05936934	4.51E-06
A	C	0.05	-0.2772635	0.05936934	4.51E-06
C	T	0.05	-0.271507	0.05980155	8.05E-06
C	T	0.05	-0.2834693	0.06046568	4.16E-06
C	T	0.05	-0.2772635	0.05936934	4.51E-06
A	T	0.05	-0.2772635	0.05936934	4.51E-06
TGGGGCTATTGAGC	T	0.05	-0.2684843	0.05908244	7.91E-06
A	G	0.19	-0.1508132	0.03345582	9.28E-06
A	T	0.19	-0.1508132	0.03345582	9.28E-06
C	T	0.2	-0.1546315	0.03314606	4.61E-06
C	T	0.2	-0.1534737	0.03309864	5.24E-06
G	A	0.2	-0.1534737	0.03309864	5.24E-06
G	A	0.2	-0.1491917	0.03287469	8.12E-06
G	A	0.15	-0.1612833	0.0345382	4.52E-06
G	A	0.15	0.1653244	0.03542984	4.59E-06
C	A	0.03	-0.3382929	0.07372074	6.49E-06
A	G	0.4	0.122597	0.02726574	9.75E-06
G	T	0.39	-0.1173826	0.02560894	6.64E-06

A	G	0.39	-0.1158681	0.02564975	8.90E-06
T	G	0.35	-0.1225519	0.02673715	6.64E-06
A	G	0.39	-0.1158681	0.02564975	8.90E-06
C	T	0.39	-0.1174789	0.02561001	6.54E-06
A	G	0.39	-0.1155926	0.02570573	9.74E-06
A	AT	0.38	-0.1195162	0.02557154	4.44E-06
G	T	0.16	0.1591661	0.03523085	8.88E-06
T	C	0.38	0.1219427	0.02643961	5.85E-06
C	T	0.03	-0.3464109	0.0748783	5.49E-06
C	CA	0.02	-0.3808629	0.0847856	9.94E-06
T	A	0.37	-0.1193661	0.0263747	8.58E-06
A	G	0.21	-0.146928	0.03200081	6.42E-06
T	C	0.19	-0.1551264	0.03242238	2.68E-06
C	T	0.2	-0.149597	0.03181172	3.90E-06
G	C	0.22	-0.1460771	0.02958432	1.32E-06
C	T	0.21	-0.1496538	0.03099708	2.20E-06
C	T	0.22	-0.1399245	0.03037159	5.98E-06
T	C	0.22	-0.143416	0.03086876	5.03E-06
G	C	0.22	-0.1410091	0.03088865	7.21E-06
T	C	0.22	-0.1408879	0.0308928	7.36E-06
T	C	0.22	-0.1449976	0.03028877	2.65E-06
T	C	0.22	-0.148397	0.03098779	2.63E-06
T	C	0.22	-0.1467412	0.03072443	2.79E-06
T	C	0.12	-0.1873161	0.04151702	9.12E-06
G	A	0.06	-0.2552757	0.05582509	6.97E-06
G	A	0.23	0.1428554	0.03073686	4.99E-06
G	C	0.23	0.1428554	0.03073686	4.99E-06
G	A	0.34	-0.1411584	0.02669002	2.43E-07
G	T	0.06	0.2497907	0.05540168	9.24E-06
A	G	0.01	-0.7773898	0.1301516	8.78E-09
GAA	G	0.02	-0.6181754	0.1009906	3.20E-09
C	T	0.02	0.9911341	0.1664658	9.70E-09
A	AATAAC	0.01	-0.7533976	0.1259795	6.88E-09
G	T	0.01	0.7838186	0.1297634	5.04E-09
G	A	0.02	-0.477258	0.1054894	8.63E-06
C	T	0.02	-0.477258	0.1054894	8.63E-06
CT	C	0.01	-0.51398	0.1101581	4.60E-06
C	T	0.02	-0.4426323	0.09526577	5.02E-06
G	A	0.02	-0.4870558	0.1054846	5.72E-06
A	AACAC	0.04	0.296907	0.06392491	5.06E-06
T	C	0.32	0.1403147	0.02754882	6.30E-07
T	TA	0.28	0.1393382	0.02888135	2.23E-06
T	A	0.39	0.1311305	0.02651167	1.27E-06
A	G	0.45	0.1184822	0.02496336	3.20E-06
A	G	0.44	0.1137637	0.02500714	7.73E-06
A	T	0.44	0.1179302	0.02495179	3.50E-06
T	C	0.34	0.1444018	0.0269556	1.73E-07
G	A	0.34	0.1382686	0.02694809	5.26E-07
A	G	0.34	0.1327371	0.02718655	1.71E-06
C	G	0.33	0.1279239	0.02749105	4.87E-06

C	T	0.44	0.1151316	0.02519468	7.07E-06
C	T	0.44	0.1167162	0.02515761	5.18E-06
A	T	0.34	0.1294206	0.02720833	3.05E-06
A	G	0.44	0.1140865	0.02506436	7.65E-06
T	C	0.44	0.1163398	0.025208	5.77E-06
G	A	0.44	0.1134384	0.02516665	9.29E-06
C	T	0.34	0.1321689	0.0272553	1.99E-06
C	T	0.44	0.1141291	0.0253	9.15E-06
C	T	0.33	0.1324711	0.02747137	2.26E-06
A	G	0.34	0.1365413	0.02733049	1.00E-06
T	A	0.42	0.1186302	0.02526363	4.02E-06
G	GA	0.43	0.1159784	0.02539709	7.16E-06
C	T	0.41	0.1159235	0.0257088	9.23E-06
G	A	0.41	0.119483	0.025812	5.43E-06
C	T	0.41	0.1200901	0.02586287	5.09E-06
C	T	0.41	0.1300695	0.02549447	6.05E-07
A	G	0.31	-0.1235103	0.02748272	9.85E-06
T	TTTTTTC	0.01	-0.5169099	0.1092098	3.39E-06
G	A	0.06	-0.2682629	0.05528856	1.97E-06
G	GGTGT	0.04	-0.2963314	0.06496779	7.34E-06
C	T	0.09	-0.2227078	0.04589503	1.96E-06
A	C	0.37	-0.1228768	0.02649612	5.22E-06
A	T	0.37	-0.1208234	0.02654323	7.64E-06
C	G	0.37	-0.1226851	0.0265512	5.63E-06
T	A	0.38	-0.1274414	0.02624825	1.94E-06
G	C	0.37	-0.1271444	0.02645824	2.44E-06
C	A	0.37	-0.1282864	0.02632601	1.78E-06
C	T	0.42	-0.1226103	0.02655564	5.72E-06
T	A	0.41	0.1164606	0.02513977	5.34E-06
GTTC	G	0.36	-0.123947	0.02663476	4.86E-06
T	C	0.01	-0.5406823	0.1170966	5.72E-06
G	GTT	0.14	-0.1559988	0.03259062	2.66E-06
T	C	0.11	-0.1834892	0.03956546	5.22E-06
CAGG	C	0.04	-0.3187879	0.06672121	2.77E-06
T	C	0.04	-0.3055737	0.06625257	5.85E-06
G	C	0.09	-0.2091502	0.04389662	2.94E-06
C	A	0.02	-0.4787014	0.0994016	2.32E-06
C	T	0.04	-0.3098187	0.06869406	9.19E-06
T	C	0.1	0.2009435	0.04119295	1.74E-06
C	G	0.05	-0.2617426	0.05796388	8.97E-06
T	TGA	0.05	-0.2811686	0.06251965	9.72E-06
C	A	0.35	-0.132601	0.0270285	1.53E-06
A	G	0.42	-0.1197033	0.02631298	7.73E-06
T	C	0.42	-0.1184809	0.02625202	9.06E-06
G	C	0.42	-0.1184809	0.02625202	9.06E-06
T	A	0.32	-0.1282756	0.02790172	6.25E-06
G	C	0.32	-0.127253	0.02798496	7.80E-06
G	A	0.32	-0.1278368	0.0275309	5.09E-06
CA	C	0.48	0.1085317	0.02319187	4.32E-06
C	G	0.16	0.1706078	0.03483364	1.59E-06

C	CTGTGTGTG	0.07	-0.3175136	0.05316227	8.37E-09
C	T	0.02	0.9152729	0.1534053	8.54E-09
C	CA	0.02	-0.8036457	0.1748496	6.53E-06
C	T	0.02	-0.9209663	0.2022679	7.88E-06
A	C	0.03	0.7925151	0.1705916	5.24E-06
G	A	0.02	-0.8343257	0.1827612	7.48E-06
C	T	0.01	-1.057457	0.2305466	6.80E-06
C	T	0.01	-1.286764	0.2433619	2.62E-07
T	G	0.01	-1.398667	0.2504763	5.99E-08
T	G	0.02	-0.8647024	0.1895779	7.61E-06
G	A	0.01	-1.31004	0.2432702	1.62E-07
A	G	0.09	-0.4254238	0.09364576	8.25E-06
GA	G	0.02	1.051446	0.2246109	4.47E-06
T	TGTGTGA	0.01	1.207673	0.2527558	2.89E-06
T	G	0.02	-0.9486253	0.1955564	2.07E-06
G	A	0.03	-0.840094	0.1755795	2.81E-06
C	T	0.02	-0.8861047	0.196894	9.93E-06
G	T	0.02	-0.9102542	0.202104	9.78E-06
C	G	0.02	-0.9102542	0.202104	9.78E-06
G	A	0.02	-0.9102542	0.202104	9.78E-06
TA	T	0.05	-0.5720542	0.1263574	8.83E-06
G	A	0.03	0.6775108	0.1495656	8.73E-06
G	A	0.04	0.6736335	0.1459241	5.97E-06
T	C	0.01	1.081282	0.2343359	6.03E-06
A	C	0.42	0.2763209	0.05673042	1.89E-06
C	T	0.02	-0.8057653	0.1741985	5.73E-06
A	G	0.02	-1.001828	0.2006043	1.07E-06
G	C	0.02	1.007647	0.2017676	1.07E-06
T	C	0.02	1.007647	0.2017676	1.07E-06
G	T	0.02	1.071408	0.2061902	4.08E-07
T	C	0.02	1.071408	0.2061902	4.08E-07
G	T	0.02	1.071408	0.2061902	4.08E-07
C	G	0.02	1.071408	0.2061902	4.08E-07
T	C	0.02	1.071408	0.2061902	4.08E-07
G	A	0.02	1.071408	0.2061902	4.08E-07
TAGTC	T	0.02	1.071408	0.2061902	4.08E-07
T	C	0.02	1.006576	0.2096524	2.60E-06
C	T	0.02	1.071408	0.2061902	4.08E-07
T	TC	0.02	1.007647	0.2017676	1.07E-06
T	A	0.02	1.071408	0.2061902	4.08E-07
C	T	0.02	1.071408	0.2061902	4.08E-07
A	G	0.02	0.9253243	0.2027935	7.56E-06
C	T	0.03	0.7670298	0.1671835	6.77E-06
TTTTCTTTC	T	0.03	-0.7064815	0.1541986	6.96E-06
C	A	0.37	-0.2730487	0.05626148	2.05E-06
C	T	0.02	1.006143	0.2095411	2.60E-06
C	CA	0.02	1.022106	0.2124856	2.50E-06
T	C	0.02	0.9502438	0.2028201	4.40E-06
A	G	0.02	0.9502438	0.2028201	4.40E-06
G	A	0.02	0.9502438	0.2028201	4.40E-06

G	A	0.02	0.971419	0.2076107	4.52E-06
G	A	0.02	-1.031541	0.2018711	6.17E-07
G	A	0.02	-0.9846492	0.1909623	4.95E-07
G	A	0.3	-0.2750986	0.06028903	7.55E-06
AC	A	0.02	0.9628918	0.208477	5.91E-06
C	T	0.02	-0.9495045	0.2109438	9.89E-06
T	TG	0.02	-1.027347	0.2110599	1.92E-06
AT	A	0.08	-0.4812938	0.1035333	5.17E-06
C	CTATG	0.09	-0.5519844	0.09412506	1.41E-08
A	G	0.02	-0.9814161	0.2163566	8.50E-06
G	A	0.02	-0.965798	0.2130771	8.63E-06
C	T	0.04	0.6486664	0.1412035	6.59E-06
C	T	0.04	0.6486664	0.1412035	6.59E-06
T	C	0.2	-0.317586	0.068808	5.99E-06
G	A	0.16	-0.3425021	0.07509214	7.62E-06
C	T	0.01	-1.171554	0.252137	5.22E-06
GT	G	0.17	0.3543087	0.07029754	8.59E-07
GTGGATGGATGGA	G	0.01	-1.089988	0.2356716	5.74E-06
C	A	0.06	-0.5338852	0.1179697	8.89E-06
G	A	0.22	0.3032594	0.06398028	3.44E-06
C	A	0.21	0.2925221	0.06404789	7.41E-06
T	C	0.19	-0.3270082	0.06966684	4.23E-06
A	G	0.19	-0.3149587	0.06877057	7.01E-06
GGAGTA	G	0.2	-0.3163941	0.0659821	2.68E-06
G	C	0.19	-0.3167428	0.06963341	8.04E-06
G	A	0.08	-0.4641287	0.1031293	9.92E-06
T	C	0.02	0.8856593	0.1929377	6.70E-06
T	C	0.27	0.2892274	0.06246589	5.62E-06
A	G	0.27	0.2892274	0.06246589	5.62E-06
G	A	0.27	0.2946689	0.06287404	4.37E-06
T	G	0.27	0.2858457	0.06282247	7.99E-06
T	C	0.27	0.2892274	0.06246589	5.62E-06
C	G	0.27	0.2905193	0.06244914	5.09E-06
G	A	0.27	0.2967164	0.0626521	3.50E-06
C	G	0.27	0.2888667	0.06291922	6.68E-06
G	A	0.26	0.2863864	0.06264214	7.27E-06
C	CTTG	0.27	0.2935316	0.06275425	4.55E-06
T	C	0.28	0.2821741	0.06228629	8.72E-06
A	G	0.28	0.2809118	0.06226071	9.44E-06
G	A	0.28	0.2821741	0.06228629	8.72E-06
G	A	0.28	0.2821741	0.06228629	8.72E-06
A	T	0.21	0.3394238	0.06904992	1.54E-06
G	A	0.2	0.329288	0.06934433	3.30E-06
T	TG	0.21	0.3476776	0.06927686	9.51E-07
T	A	0.21	0.3350303	0.06913672	2.12E-06
T	C	0.21	0.3255904	0.06906352	3.86E-06
G	A	0.21	0.330387	0.06869316	2.50E-06
C	T	0.21	0.330387	0.06869316	2.50E-06
A	AT	0.21	0.3292462	0.06872084	2.73E-06
C	G	0.2	0.3201454	0.07006198	7.34E-06

T	C	0.2	0.320725	0.07003385	7.02E-06
G	A	0.2	0.3309333	0.07005966	3.70E-06
C	G	0.2	0.3309333	0.07005966	3.70E-06
T	C	0.01	-1.357331	0.2572565	2.77E-07
A	T	0.05	-0.6007848	0.1332467	9.57E-06
G	A	0.15	0.3403584	0.0751036	8.66E-06
G	A	0.05	-0.6206125	0.1293627	2.65E-06
T	TTGTG	0.01	1.14904	0.2471476	5.16E-06
G	A	0.17	0.3265154	0.07158047	7.60E-06
C	T	0.03	-0.849582	0.1748768	2.01E-06
CTGCT	C	0.02	-0.8902024	0.1884644	3.70E-06
A	AGGAGGAGGAGGAG	0.01	1.086511	0.2182521	1.15E-06
A	T	0.04	0.6699371	0.1382115	2.11E-06
A	C	0.04	0.6742839	0.1409561	2.82E-06
C	G	0.04	0.7587585	0.1484089	6.09E-07
C	T	0.06	-0.5326525	0.116418	7.15E-06
G	A	0.06	-0.5326525	0.116418	7.15E-06
G	A	0.03	-0.7195523	0.157506	7.38E-06
T	TA	0.08	0.4667896	0.1037323	9.95E-06
G	C	0.03	-0.8144199	0.1763248	5.90E-06
G	C	0.03	-0.8144199	0.1763248	5.90E-06
A	G	0.09	-0.4495822	0.09763533	6.29E-06
C	CTATG	0.09	-0.3559405	0.05979423	8.87E-09
G	GT	0.09	-0.4246156	0.06951359	4.03E-09
C	CTATG	0.09	-0.4347867	0.06900486	1.36E-09
C	T	0.01	-1.094317	0.184358	9.69E-09
C	CTATG	0.09	-0.5450803	0.0845632	8.15E-10
C	T	0.01	-1.036782	0.1721903	6.16E-09
C	CTATG	0.09	-0.4125114	0.06770591	5.02E-09
GT	G	0.05	-0.7683643	0.1242294	3.54E-09
C	CTATG	0.09	-0.3893399	0.06128348	1.02E-09
T	G	0.01	-1.037556	0.1716943	5.65E-09
T	G	0.01	-0.9169734	0.1534096	7.81E-09
C	CTATG	0.09	-0.3460158	0.05775521	7.26E-09
C	CTATG	0.09	-0.4948942	0.07579767	4.26E-10
GT	G	0.05	-0.521819	0.08759795	8.96E-09
T	G	0.01	-1.008163	0.1666438	5.47E-09
G	A	0.01	-0.9748844	0.1616031	5.99E-09
C	CTATG	0.1	-0.3939661	0.06313093	2.50E-09
G	A	0.03	-0.3099508	0.06414211	2.15E-06
A	T	0.03	-0.3066808	0.06740453	7.71E-06
A	G	0.03	-0.3099508	0.06414211	2.15E-06
T	C	0.03	-0.3066808	0.06740453	7.71E-06
AT	A	0.04	-0.2477845	0.05320255	4.78E-06
G	A	0.32	-0.1050943	0.02192466	2.58E-06
T	C	0.01	-0.4201451	0.08923615	3.80E-06
T	C	0.02	-0.4115535	0.08433612	1.73E-06
T	G	0.01	-0.4829301	0.09970479	2.04E-06
C	A	0.01	-0.4829301	0.09970479	2.04E-06
G	A	0.02	-0.4373978	0.08610212	6.72E-07

T	C	0.01	-0.5028288	0.09656527	3.63E-07
G	A	0.01	-0.5028288	0.09656527	3.63E-07
C	CT	0.01	-0.6053061	0.09844866	2.75E-09
C	T	0.01	-0.4808603	0.0916566	3.00E-07
G	A	0.01	-0.4808603	0.0916566	3.00E-07
A	G	0.26	-0.1136217	0.02513925	8.81E-06
G	A	0.24	-0.1166047	0.0254239	6.56E-06
T	C	0.26	-0.1136217	0.02513925	8.81E-06
A	G	0.26	-0.1136217	0.02513925	8.81E-06
T	C	0.01	-0.4901858	0.1061285	5.68E-06
G	A	0.01	-0.4575082	0.09957634	6.33E-06
GAC	G	0.1	0.1664912	0.03656172	7.58E-06
T	G	0.05	-0.2154531	0.04656671	5.48E-06
GTTTTA	G	0.08	-0.16573	0.03586749	5.63E-06
A	ATG	0.32	-0.1052359	0.02339386	9.67E-06
G	A	0.28	-0.11445	0.02400815	2.91E-06
G	A	0.32	-0.1061119	0.02335738	7.95E-06
C	T	0.02	-0.3548653	0.0753494	3.78E-06
C	T	0.12	0.1587999	0.03444407	5.90E-06
C	T	0.09	-0.168005	0.03614569	4.98E-06
A	G	0.01	-0.4702172	0.09399237	9.71E-07
G	T	0.03	-0.292202	0.0581581	8.76E-07
T	C	0.03	-0.2826106	0.0565866	1.01E-06
A	G	0.02	-0.3691189	0.07098691	3.76E-07
C	T	0.08	-0.1919063	0.03942229	1.83E-06
G	A	0.04	-0.2518972	0.05397795	4.58E-06
T	C	0.01	-0.452073	0.09915546	7.40E-06
T	TCAGAAG	0.12	-0.1517851	0.03203658	3.32E-06
G	T	0.02	-0.3942953	0.07905622	1.04E-06
T	C	0.02	-0.3991506	0.07501772	2.08E-07
G	A	0.03	-0.2848307	0.06109416	4.68E-06
A	AT	0.03	-0.2848307	0.06109416	4.68E-06
G	C	0.03	-0.2848307	0.06109416	4.68E-06
G	A	0.03	-0.2848307	0.06109416	4.68E-06
T	C	0.03	-0.2848307	0.06109416	4.68E-06
A	G	0.06	-0.2142553	0.04295959	1.04E-06
G	A	0.06	-0.2274705	0.04380917	3.90E-07
G	A	0.03	-0.2848307	0.06109416	4.68E-06
G	A	0.03	-0.2848307	0.06109416	4.68E-06
A	AT	0.03	-0.2848307	0.06109416	4.68E-06
G	A	0.06	-0.2178025	0.04366035	1.04E-06
G	A	0.06	-0.1929842	0.04203461	6.43E-06
C	T	0.04	-0.2881181	0.05757634	9.64E-07
T	C	0.06	-0.2274705	0.04380917	3.90E-07
T	C	0.03	-0.2848307	0.06109416	4.68E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
A	G	0.06	-0.2266621	0.04458939	6.61E-07
T	A	0.03	-0.287633	0.06325349	7.80E-06
A	G	0.06	-0.2266621	0.04458939	6.61E-07
C	T	0.03	-0.287633	0.06325349	7.80E-06

T	C	0.03	-0.287633	0.06325349	7.80E-06
T	C	0.06	-0.2095899	0.04353014	2.34E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
T	C	0.06	-0.1990704	0.04286387	5.07E-06
A	G	0.03	-0.287633	0.06325349	7.80E-06
C	T	0.03	-0.287633	0.06325349	7.80E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
G	A	0.03	-0.3114183	0.06460004	2.27E-06
C	CA	0.03	-0.2907069	0.05937636	1.60E-06
C	CTGCTGGGGT	0.03	-0.2791528	0.06007171	5.01E-06
G	A	0.02	-0.393717	0.0748893	2.84E-07
C	T	0.03	-0.287633	0.06325349	7.80E-06
C	T	0.06	-0.2266621	0.04458939	6.61E-07
G	A	0.03	-0.2907069	0.05937636	1.60E-06
A	G	0.06	-0.2266621	0.04458939	6.61E-07
G	A	0.03	-0.287633	0.06325349	7.80E-06
T	G	0.03	-0.287633	0.06325349	7.80E-06
C	T	0.03	-0.3009775	0.05977069	8.31E-07
G	A	0.03	-0.2876823	0.0618997	4.99E-06
T	C	0.06	-0.2125563	0.04370193	1.86E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
G	C	0.03	-0.2907069	0.05937636	1.60E-06
A	G	0.06	-0.2044249	0.04507075	8.21E-06
G	C	0.03	-0.2907069	0.05937636	1.60E-06
T	C	0.03	-0.2907069	0.05937636	1.60E-06
A	G	0.06	-0.2166556	0.0444286	1.76E-06
G	C	0.03	-0.287633	0.06325349	7.80E-06
G	C	0.03	-0.2907069	0.05937636	1.60E-06
A	C	0.03	-0.2907069	0.05937636	1.60E-06
C	T	0.03	-0.2907069	0.05937636	1.60E-06
T	C	0.06	-0.2031016	0.04354915	4.64E-06
G	A	0.03	-0.287633	0.06325349	7.80E-06
G	A	0.03	-0.2784161	0.06144182	8.37E-06
C	G	0.07	-0.1981897	0.04311257	6.26E-06
T	A	0.07	-0.1941313	0.042963	8.85E-06
C	T	0.03	-0.2784161	0.06144182	8.37E-06
G	A	0.07	-0.1941313	0.042963	8.85E-06
C	T	0.07	-0.1941313	0.042963	8.85E-06
C	T	0.07	-0.1941313	0.042963	8.85E-06
T	C	0.03	-0.2784161	0.06144182	8.37E-06
C	T	0.03	-0.2784161	0.06144182	8.37E-06
G	C	0.06	-0.2082053	0.04457711	4.50E-06
A	C	0.06	-0.2123209	0.04477969	3.27E-06
T	C	0.02	-0.3294719	0.06884601	2.67E-06
G	A	0.02	-0.3438251	0.06973144	1.36E-06
T	C	0.02	-0.3276743	0.06702376	1.66E-06
C	T	0.02	-0.3276743	0.06702376	1.66E-06
G	A	0.02	-0.3276743	0.06702376	1.66E-06
A	G	0.03	-0.3144517	0.06626048	3.20E-06

G	C	0.02	-0.3276743	0.06702376	1.66E-06
T	C	0.02	-0.3276743	0.06702376	1.66E-06
G	A	0.02	-0.3460222	0.07410779	4.53E-06
G	A	0.02	-0.3276743	0.06702376	1.66E-06
C	CT	0.02	-0.3276743	0.06702376	1.66E-06
A	G	0.02	-0.3276743	0.06702376	1.66E-06
A	G	0.06	-0.2112925	0.04683931	9.15E-06
G	GA	0.15	-0.126619	0.02807981	9.22E-06
C	T	0.01	-0.4203107	0.08967901	4.19E-06
G	C	0.02	-0.3899221	0.08381116	4.89E-06
CCAG	C	0.02	-0.3338121	0.07098591	3.90E-06
T	A	0.02	-0.4206381	0.08353588	8.31E-07
T	TACATACAC	0.04	-0.275669	0.05556989	1.18E-06
C	T	0.05	-0.2428326	0.04895872	1.19E-06
G	GTGTTTTGTTT	0.02	-0.3869114	0.08373968	5.64E-06
C	CT	0.15	-0.1325431	0.02859411	5.28E-06
T	C	0.04	-0.2591761	0.05637811	6.26E-06
C	G	0.26	-0.111245	0.02453128	8.24E-06
G	A	0.3	-0.1062797	0.02287183	5.01E-06
.TCCTGCCATCCTGTCC	C	0.02	-0.4018628	0.07787885	4.57E-07
G	A	0.01	-0.5241448	0.1049787	1.02E-06
A	ATGTGTGTGTG	0.01	-0.4847962	0.1020874	3.16E-06
C	T	0.01	-0.477237	0.09157214	3.55E-07
A	G	0.05	-0.2416963	0.0495821	1.77E-06
G	T	0.1	-0.1579087	0.03439025	6.41E-06
GA	G	0.01	-0.5061786	0.1058715	2.73E-06
G	A	0.01	-0.4668234	0.1024491	7.49E-06
TA	T	0.02	-0.4142312	0.08536497	1.96E-06
A	G	0.01	-0.4522844	0.0943146	2.55E-06
C	T	0.02	-0.4428152	0.08564192	4.34E-07
C	T	0.06	-0.2117847	0.04577693	5.49E-06
G	A	0.05	-0.2208171	0.04822467	6.78E-06
A	C	0.05	-0.2208171	0.04822467	6.78E-06
G	T	0.04	-0.2380025	0.05231043	7.71E-06
C	A	0.05	-0.2208171	0.04822467	6.78E-06
T	TAC	0.06	-0.2044045	0.04541785	9.58E-06
G	C	0.02	-0.4170779	0.08736705	2.82E-06
C	A	0.02	-0.3306984	0.0691456	2.71E-06
C	T	0.45	0.09418061	0.02063918	7.27E-06
C	CGTGTGT	0.02	-0.381759	0.0838546	7.62E-06
G	A	0.01	-0.5039673	0.09917631	6.67E-07
T	TCACA	0.01	-0.4523346	0.09151439	1.29E-06
T	A	0.01	-0.5285059	0.1050147	8.42E-07
A	C	0.01	-0.5285059	0.1050147	8.42E-07
A	C	0.06	-0.1727134	0.03840388	9.72E-06
AAC	A	0.36	0.09897482	0.02187387	8.61E-06
C	T	0.01	-0.6855953	0.1130097	5.47E-09
G	C	0.01	-0.6855953	0.1130097	5.47E-09
A	AG	0.01	-0.6855953	0.1130097	5.47E-09
A	G	0.45	0.1807507	0.03030905	9.26E-09

A	G	0.1	-0.4394247	0.0731787	7.46E-09
A	C	0.03	-0.2932255	0.04920821	9.61E-09
G	A	0.03	-0.3093595	0.05098812	5.44E-09
C	A	0.02	-0.6974984	0.1091193	9.41E-10
AT	A	0.01	-1.325289	0.2190636	8.29E-09
C	T	0.04	-0.5506578	0.09212667	8.73E-09
GC	G	0.04	-0.5551042	0.09279605	8.51E-09
A	G	0.04	-0.5506578	0.09212667	8.73E-09
A	C	0.14	-0.1723672	0.03810423	8.66E-06
A	T	0.14	-0.1754862	0.03812912	6.11E-06
G	C	0.28	0.1323999	0.02847618	4.95E-06
C	T	0.19	0.1473456	0.0327219	9.48E-06
C	T	0.17	-0.1506784	0.03330592	8.64E-06
A	G	0.05	0.2534968	0.0564222	9.91E-06
C	A	0.14	0.1743013	0.0367465	3.24E-06
G	A	0.09	0.2034338	0.04524424	9.76E-06
T	C	0.36	0.1214415	0.02554626	3.09E-06
C	T	0.32	0.121149	0.02675391	8.48E-06
G	T	0.4	0.1206996	0.0249052	2.02E-06
T	C	0.42	0.1223028	0.0246323	1.16E-06
A	AG	0.42	0.1108846	0.02463102	9.52E-06
T	TTG	0.15	-0.1854486	0.03902106	3.11E-06
G	A	0.25	-0.1362997	0.02999429	7.91E-06
A	G	0.39	-0.1270303	0.02673124	3.11E-06
G	A	0.03	0.3345264	0.07399032	8.75E-06
T	A	0.02	-0.3884842	0.08354009	4.93E-06
T	C	0.02	-0.3663463	0.08140006	9.58E-06
C	T	0.02	-0.3706923	0.08139839	7.57E-06
T	A	0.03	-0.3750834	0.08034737	4.55E-06
A	G	0.02	-0.3706923	0.08139839	7.57E-06
A	G	0.29	-0.1275487	0.02836605	9.75E-06
C	CCCACCTTTTACCAT/	0.32	-0.1235292	0.02684081	6.11E-06
C	T	0.28	-0.128903	0.02844416	8.35E-06
T	C	0.28	-0.129481	0.02836014	7.19E-06
A	G	0.28	-0.128903	0.02844416	8.35E-06
C	T	0.29	-0.1312728	0.02713299	2.10E-06
C	G	0.33	-0.1287872	0.02772918	5.06E-06
AACAC	A	0.25	0.1436381	0.03187226	9.32E-06
C	T	0.18	-0.1526134	0.0334602	7.34E-06
C	T	0.17	-0.1535776	0.03325231	5.69E-06
A	G	0.12	-0.1807121	0.03924686	6.05E-06
CT	C	0.06	-0.2658933	0.05341894	1.09E-06
G	A	0.05	-0.2730143	0.05820259	4.11E-06
C	T	0.14	0.1754649	0.03734118	3.96E-06
T	C	0.07	0.2482343	0.05115174	1.96E-06
G	GTTT	0.08	-0.1937912	0.04248465	7.33E-06
C	G	0.32	-0.1238964	0.02734578	8.39E-06
T	C	0.07	-0.2272374	0.05054769	9.79E-06
T	C	0.01	-0.7555995	0.125796	6.14E-09
C	T	0.16	-0.1663212	0.02782999	7.74E-09

C	T	0.16	-0.1663212	0.02782999	7.74E-09
T	C	0.01	-0.767786	0.1251214	3.50E-09
G	C	0.03	-0.4851996	0.07908934	3.73E-09
C	CT	0.02	-0.5812244	0.09247575	1.32E-09
C	T	0.02	0.9891117	0.2096138	3.62E-06
C	T	0.11	0.4014572	0.08060809	1.08E-06
G	GT	0.01	1.107822	0.225968	1.56E-06
G	A	0.11	0.3760039	0.08206021	6.69E-06
A	G	0.48	0.2352452	0.05185705	8.19E-06
AT	A	0.02	1.001183	0.1973055	6.91E-07
G	A	0.49	-0.2622673	0.05265482	1.08E-06
G	C	0.01	1.104524	0.2447032	9.05E-06
G	A	0.01	1.159319	0.2300593	8.17E-07
C	T	0.01	1.200728	0.2419945	1.18E-06
CA	C	0.35	0.2555327	0.05608957	7.52E-06
C	T	0.15	0.3651691	0.07477866	1.70E-06
C	TGTGTGTGTGTGTGG	0.01	1.216299	0.2436667	1.02E-06
TAAACAAAC	T	0.06	0.5354132	0.1131396	3.41E-06
CAT	C	0.17	0.321304	0.07053193	7.53E-06
G	A	0.07	-0.5120401	0.1076778	3.07E-06
G	A	0.06	0.5334878	0.1104362	2.17E-06
T	TAAA	0.11	0.4101255	0.08409298	1.75E-06
C	T	0.02	-0.9010155	0.1982288	7.87E-06
C	A	0.01	0.9729713	0.2073346	4.08E-06
G	A	0.33	-0.2610341	0.05739097	7.77E-06
A	AACACACAC	0.08	0.4757361	0.0985623	2.21E-06
C	T	0.11	0.3944098	0.08532592	5.59E-06
G	A	0.11	0.3831473	0.0852133	9.76E-06
G	A	0.11	0.3831473	0.0852133	9.76E-06
G	A	0.11	0.3831473	0.0852133	9.76E-06
C	T	0.04	0.6261187	0.1348619	5.11E-06
A	G	0.06	-0.4964375	0.1086623	7.10E-06
C	T	0.06	-0.4964375	0.1086623	7.10E-06
ATGAT	A	0.07	-0.46113	0.09921425	4.99E-06
C	T	0.06	-0.4921853	0.1081035	7.61E-06
A	AC	0.1	0.3957229	0.08676759	7.35E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	G	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
AAAAC	A	0.05	0.5751054	0.1277942	9.60E-06
AAAATAAATAAAT	A	0.04	0.5886583	0.1291056	7.39E-06
T	G	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
CAGA	C	0.05	0.5751054	0.1277942	9.60E-06
C	G	0.04	0.6014976	0.1309461	6.36E-06
C	T	0.05	0.5822214	0.1287828	8.76E-06

T	G	0.05	0.5829111	0.1282195	7.84E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
T	A	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
C	G	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5815577	0.1282074	8.20E-06
A	G	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
A	T	0.05	0.5971682	0.1281747	4.75E-06
T	A	0.05	0.5751054	0.1277942	9.60E-06
A	C	0.05	0.5751054	0.1277942	9.60E-06
ACT	A	0.05	0.5751054	0.1277942	9.60E-06
T	A	0.05	0.5751054	0.1277942	9.60E-06
A	C	0.05	0.5751054	0.1277942	9.60E-06
A	C	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
A	G	0.05	0.5751054	0.1277942	9.60E-06
G	C	0.05	0.5751054	0.1277942	9.60E-06
A	C	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
TA	T	0.05	0.5839943	0.1288005	8.27E-06
A	T	0.04	0.6327053	0.1299985	1.84E-06
A	G	0.05	0.5839943	0.1288005	8.27E-06
G	GT	0.05	0.6011593	0.1276987	3.81E-06
C	T	0.05	0.5751054	0.1277942	9.60E-06
G	T	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5839943	0.1288005	8.27E-06
G	A	0.05	0.6153597	0.1291534	2.94E-06
C	T	0.05	0.5839349	0.1283064	7.67E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
C	T	0.04	0.6201373	0.1320559	4.02E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
G	A	0.05	0.5751054	0.1277942	9.60E-06
CT	C	0.05	0.5751054	0.1277942	9.60E-06
C	G	0.02	0.8240722	0.1684776	1.64E-06
T	ACATAGATAGATAGA	0.02	0.9495593	0.2039714	4.82E-06
G	GTGTTTTGTTT	0.07	0.4572491	0.1014173	9.25E-06
AT	A	0.02	0.7491795	0.1224247	3.33E-09
T	A	0.04	0.5695545	0.09071683	1.35E-09
A	G	0.02	0.7608037	0.1271399	6.74E-09
C	G	0.44	-0.2254622	0.03554258	9.71E-10
T	C	0.08	0.3101712	0.05128165	5.14E-09
AT	A	0.02	0.6344701	0.1050181	5.02E-09
T	G	0.01	0.8905205	0.1504199	9.48E-09
C	T	0.01	0.8413352	0.1417815	8.80E-09
C	A	0.02	-0.6582436	0.1097344	6.25E-09

TACACACACACACAC	T	0.02	0.569616	0.09625569	9.59E-09
C	T	0.02	-0.5667622	0.09455874	6.48E-09
C	A	0.05	-0.35201	0.05827563	5.97E-09
G	GGA	0.01	-0.9500132	0.1576692	5.67E-09
GA	G	0.01	-0.7237458	0.1125011	6.65E-10
T	C	0.01	-0.7237458	0.1125011	6.65E-10
A	G	0.01	-0.7237458	0.1125011	6.65E-10
A	C	0.01	-0.9435545	0.1593636	9.54E-09
A	G	0.01	-0.9435545	0.1593636	9.54E-09
C	A	0.01	-0.9435545	0.1593636	9.54E-09
A	AAAAT	0.01	1.11238	0.2369264	4.20E-06
G	GTC	0.42	0.2829864	0.05945714	3.14E-06
G	A	0.02	0.8831575	0.1828233	2.27E-06
T	C	0.18	-0.3186106	0.07026568	8.55E-06
C	T	0.18	-0.322945	0.07060492	7.19E-06
T	C	0.18	-0.3293048	0.06974015	3.72E-06
A	G	0.18	-0.3318604	0.06939484	2.83E-06
A	C	0.13	-0.4420465	0.08751314	8.14E-07
G	A	0.07	0.4987888	0.1088966	6.99E-06
ATATGTATGTATG	A	0.02	0.8536497	0.180679	3.68E-06
TACACACAC	T	0.06	0.5426459	0.1169324	5.35E-06
T	C	0.38	0.2435809	0.05353315	7.98E-06
T	C	0.37	0.2450833	0.05409182	8.68E-06
A	T	0.03	-0.6884741	0.1520529	8.80E-06
ATC	A	0.03	-0.7441953	0.1600026	5.11E-06
T	TA	0.1	-0.5097695	0.09098433	5.43E-08
C	G	0.02	-0.9494262	0.2097031	8.81E-06
G	A	0.03	0.7732235	0.1680679	6.39E-06
A	G	0.25	0.2763597	0.06135279	9.74E-06
C	T	0.03	-0.7294157	0.1529576	3.01E-06
T	A	0.07	-0.5023623	0.1096753	6.99E-06
TAC	T	0.2	0.3317024	0.07240291	6.96E-06
G	A	0.01	-1.243318	0.251728	1.38E-06
G	A	0.01	-1.243318	0.251728	1.38E-06
C	A	0.1	0.4881421	0.0944627	4.67E-07
A	G	0.06	0.5277751	0.1139925	5.61E-06
C	T	0.05	0.567802	0.1243617	7.45E-06
A	T	0.05	0.567802	0.1243617	7.45E-06
G	A	0.05	0.5668103	0.1252091	8.83E-06
C	T	0.05	0.5668103	0.1252091	8.83E-06
T	C	0.05	0.5668103	0.1252091	8.83E-06
C	T	0.05	0.5668103	0.1252091	8.83E-06
CTTT	C	0.05	0.5668103	0.1252091	8.83E-06
A	G	0.05	0.5668103	0.1252091	8.83E-06
AT	A	0.05	0.5668103	0.1252091	8.83E-06
A	G	0.05	0.6106518	0.1213344	8.88E-07
G	A	0.05	0.5763104	0.1182346	1.86E-06
C	T	0.05	0.5433636	0.1179123	6.18E-06
GTGTT	G	0.05	-0.6256984	0.1313151	3.07E-06
T	TTG	0.06	0.6635506	0.1146572	2.10E-08

G	C	0.13	0.396936	0.07929302	1.01E-06
C	T	0.13	0.396936	0.07929302	1.01E-06
C	T	0.12	0.3821128	0.07789248	1.61E-06
G	A	0.12	0.3821128	0.07789248	1.61E-06
CA	C	0.12	0.3817945	0.07776558	1.58E-06
C	T	0.12	0.3821128	0.07789248	1.61E-06
C	T	0.12	0.3821128	0.07789248	1.61E-06
C	T	0.12	0.3821128	0.07789248	1.61E-06
T	C	0.12	0.3821128	0.07789248	1.61E-06
A	C	0.12	0.3821128	0.07789248	1.61E-06
A	G	0.12	0.3821128	0.07789248	1.61E-06
A	T	0.12	0.3821128	0.07789248	1.61E-06
A	C	0.12	0.3821128	0.07789248	1.61E-06
G	A	0.12	0.3821128	0.07789248	1.61E-06
AAC	A	0.12	0.3865185	0.07868533	1.56E-06
A	T	0.12	0.3821128	0.07789248	1.61E-06
C	T	0.11	0.3884781	0.08100042	2.66E-06
G	C	0.12	0.3817124	0.07851644	1.97E-06
C	T	0.12	0.3817124	0.07851644	1.97E-06
T	C	0.12	0.3817124	0.07851644	1.97E-06
C	T	0.12	0.3817124	0.07851644	1.97E-06
G	A	0.12	0.3817124	0.07851644	1.97E-06
C	T	0.12	0.386893	0.07862123	1.50E-06
T	C	0.12	0.3817124	0.07851644	1.97E-06
A	T	0.12	0.3821128	0.07789248	1.61E-06
T	C	0.03	0.7809207	0.1522923	5.66E-07
G	A	0.12	0.3709489	0.07853146	3.69E-06
CATAAAT	C	0.12	0.3709489	0.07853146	3.69E-06
T	A	0.12	0.3780526	0.07861804	2.51E-06
G	C	0.12	0.3667094	0.07851365	4.68E-06
C	T	0.13	0.3637094	0.07762096	4.38E-06
T	C	0.13	0.3637094	0.07762096	4.38E-06
C	G	0.12	0.3640046	0.0787316	5.78E-06
C	T	0.13	0.3637094	0.07762096	4.38E-06
T	C	0.15	0.3668642	0.07245446	7.68E-07
G	A	0.15	0.3668642	0.07245446	7.68E-07
C	A	0.15	0.353489	0.07247306	1.83E-06
C	T	0.15	0.3590624	0.07230762	1.22E-06
C	G	0.15	0.3590624	0.07230762	1.22E-06
A	G	0.15	0.3581813	0.07278681	1.50E-06
T	C	0.15	0.3590624	0.07230762	1.22E-06
G	C	0.15	0.3590624	0.07230762	1.22E-06
T	C	0.15	0.3590624	0.07230762	1.22E-06
A	G	0.15	0.3590624	0.07230762	1.22E-06
C	T	0.15	0.3545922	0.07242291	1.68E-06
A	G	0.15	0.3590624	0.07230762	1.22E-06
T	A	0.15	0.3761636	0.07278033	4.65E-07
C	T	0.17	0.3318628	0.06889651	2.42E-06
C	T	0.17	0.3309968	0.06906027	2.70E-06
A	T	0.22	0.3163951	0.06436917	1.54E-06

T	G	0.17	0.3497359	0.06895847	7.39E-07
T	C	0.21	0.3202823	0.06573201	1.87E-06
C	T	0.21	0.3014118	0.06619947	7.88E-06
G	A	0.17	0.3576992	0.06983206	5.81E-07
G	T	0.17	0.3576992	0.06983206	5.81E-07
T	C	0.22	0.2914074	0.06405625	8.01E-06
G	A	0.18	0.3102251	0.06796229	7.49E-06
G	T	0.18	0.3102251	0.06796229	7.49E-06
G	A	0.16	0.3519573	0.07254869	2.07E-06
T	A	0.15	0.3603329	0.07521204	2.72E-06
T	C	0.16	0.3513515	0.07195951	1.79E-06
CGTGT	C	0.12	0.39689	0.08485166	4.54E-06
T	C	0.03	0.7622574	0.1652063	6.03E-06
C	T	0.03	-0.8113425	0.1693398	2.72E-06
T	G	0.02	1.015164	0.2212683	6.76E-06
CG	C	0.25	0.2903071	0.06194464	4.36E-06
C	T	0.25	0.2927482	0.06051053	2.20E-06
G	A	0.25	0.2927482	0.06051053	2.20E-06
T	C	0.25	0.2833485	0.0603489	4.20E-06
C	G	0.2	0.3042364	0.06754457	9.75E-06
A	T	0.17	0.3231396	0.06974273	5.53E-06
T	G	0.2	0.3038513	0.06752969	9.95E-06
AT	A	0.02	-0.8246298	0.1832208	9.90E-06
C	T	0.25	0.3045247	0.0651989	4.68E-06
G	A	0.38	-0.2457832	0.05348345	6.54E-06
A	C	0.02	-0.7796703	0.1244287	1.78E-09
T	TTG	0.07	0.327357	0.05485375	9.11E-09
T	TTG	0.06	0.419705	0.06696841	1.63E-09
ATATGTATGTATG	A	0.02	0.6177947	0.1030638	7.56E-09
T	TTG	0.06	0.4499542	0.07491856	6.70E-09
T	TTG	0.06	0.5140355	0.08563724	6.78E-09
C	T	0.2	0.3016977	0.06519357	5.48E-06
A	T	0.2	0.3124123	0.06542266	2.81E-06
C	A	0.21	0.2908658	0.06410973	8.20E-06
C	G	0.31	0.2776148	0.05918695	4.14E-06
AG	A	0.31	0.2840435	0.05944267	2.77E-06
G	T	0.32	0.3050548	0.05710037	1.88E-07
A	T	0.31	0.2776148	0.05918695	4.14E-06
T	C	0.31	0.2738994	0.05906389	5.25E-06
A	T	0.32	0.2697337	0.05824636	5.41E-06
C	T	0.31	0.2738994	0.05906389	5.25E-06
C	T	0.31	0.2721572	0.0591183	6.11E-06
G	A	0.31	0.2776148	0.05918695	4.14E-06
G	T	0.42	0.243935	0.05388326	8.56E-06
G	A	0.31	0.2658434	0.0586979	8.49E-06
C	T	0.31	0.2685108	0.05862649	6.78E-06
G	T	0.31	0.2730178	0.05866916	4.89E-06
A	G	0.41	0.2646285	0.0550974	2.48E-06
A	G	0.31	0.2837216	0.05937731	2.78E-06
C	T	0.31	0.2657038	0.05868086	8.53E-06

A	T	0.32	0.2884973	0.05853945	1.39E-06
T	C	0.31	0.2802338	0.05974312	4.13E-06
T	C	0.4	0.2564919	0.05491197	4.52E-06
G	A	0.25	0.3000922	0.06304548	3.02E-06
T	C	0.26	0.295041	0.06091439	2.06E-06
C	A	0.02	0.9176146	0.1992772	6.08E-06
C	T	0.02	0.9176146	0.1992772	6.08E-06
G	A	0.02	0.8925906	0.1961926	7.76E-06
C	CTGG	0.03	0.8258939	0.1694378	1.78E-06
G	A	0.02	0.8509593	0.1771045	2.46E-06
C	T	0.02	0.8773899	0.1836625	2.79E-06
G	A	0.48	-0.242118	0.0536462	9.10E-06
G	GC	0.1	0.4388401	0.09508132	5.79E-06
CATA	C	0.08	0.4458088	0.09648148	5.66E-06
G	A	0.08	0.4449486	0.09542823	4.69E-06
A	C	0.1	-0.4407312	0.08893131	1.22E-06
G	A	0.34	-0.2654969	0.05696434	4.73E-06
G	T	0.01	1.258814	0.2619392	2.45E-06
G	A	0.28	-0.2745738	0.06081199	9.02E-06
C	CGTGTGTGT	0.02	-0.809451	0.1796301	9.38E-06
T	C	0.25	0.3066772	0.06549794	4.29E-06
G	A	0.24	0.314384	0.0657039	2.69E-06
C	T	0.22	0.2946554	0.06465424	7.49E-06
C	T	0.22	0.2946554	0.06465424	7.49E-06
G	A	0.22	0.3083481	0.0651943	3.46E-06
T	C	0.22	0.298427	0.06492873	6.31E-06
T	G	0.22	0.2962737	0.06465007	6.70E-06
A	G	0.22	0.2939403	0.06511872	9.07E-06
T	A	0.22	0.3089217	0.06482605	2.94E-06
C	G	0.21	0.3025622	0.06482205	4.59E-06
A	G	0.02	1.156175	0.2133538	1.28E-07
A	C	0.05	-0.6116169	0.1306815	4.33E-06
C	A	0.05	-0.6116169	0.1306815	4.33E-06
T	G	0.05	-0.6116169	0.1306815	4.33E-06
T	C	0.05	-0.6116169	0.1306815	4.33E-06
G	GA	0.05	-0.596899	0.1298308	6.27E-06
A	G	0.05	-0.6116169	0.1306815	4.33E-06
T	C	0.05	-0.6116169	0.1306815	4.33E-06
C	T	0.05	-0.6116169	0.1306815	4.33E-06
G	A	0.05	-0.6116169	0.1306815	4.33E-06
C	A	0.04	-0.6279444	0.1316761	2.90E-06
T	C	0.05	-0.6116169	0.1306815	4.33E-06
G	A	0.05	-0.6116169	0.1306815	4.33E-06
C	T	0.05	-0.6116169	0.1306815	4.33E-06
G	GT	0.03	-0.8185646	0.1707681	2.59E-06
C	T	0.05	-0.6116169	0.1306815	4.33E-06
A	C	0.05	-0.6116169	0.1306815	4.33E-06
T	C	0.05	-0.6116169	0.1306815	4.33E-06
C	T	0.05	-0.6116169	0.1306815	4.33E-06
C	G	0.05	-0.6116169	0.1306815	4.33E-06

A	G	0.04	-0.5997361	0.1311961	7.05E-06
G	T	0.05	-0.5831226	0.1251072	4.72E-06
G	GACAC	0.04	-0.631698	0.1289505	1.59E-06
T	C	0.04	-0.6092492	0.1312118	5.12E-06
A	G	0.05	-0.5608588	0.1203088	4.71E-06
T	C	0.05	-0.5608588	0.1203088	4.71E-06
C	T	0.05	-0.5608588	0.1203088	4.71E-06
C	A	0.05	-0.555297	0.1219092	7.57E-06
T	C	0.05	-0.5608588	0.1203088	4.71E-06
C	T	0.04	0.6968993	0.1487069	4.21E-06
C	T	0.09	0.4509652	0.09654691	4.52E-06
C	G	0.47	0.2493863	0.05382685	5.35E-06
G	A	0.47	0.2466436	0.05392701	6.97E-06
A	G	0.47	0.2531671	0.05407434	4.30E-06
A	G	0.46	0.256392	0.0537808	2.92E-06
A	C	0.45	0.2442282	0.05350752	7.27E-06
A	AT	0.47	0.2475347	0.05399126	6.64E-06
G	C	0.47	0.2626955	0.0539681	1.84E-06
C	A	0.47	0.265468	0.05399926	1.47E-06
T	C	0.47	0.265468	0.05399926	1.47E-06
G	T	0.47	0.265468	0.05399926	1.47E-06
A	G	0.47	0.265468	0.05399926	1.47E-06
A	G	0.47	0.265468	0.05399926	1.47E-06
T	A	0.47	0.265468	0.05399926	1.47E-06
A	G	0.1	0.4093491	0.08882932	5.98E-06
C	T	0.04	0.725529	0.1449726	9.68E-07
G	A	0.28	-0.2418439	0.05310207	7.59E-06
TA	T	0.03	0.7288701	0.1609352	8.49E-06
:TAAATAAATAAATAA	C	0.02	0.7911665	0.1749468	8.74E-06
C	T	0.03	0.7657077	0.1677582	7.27E-06
G	A	0.07	0.491078	0.1083598	8.38E-06
T	C	0.01	1.371252	0.2276089	5.47E-09
GT	G	0.01	1.338286	0.267134	9.45E-07
T	C	0.38	-0.2536744	0.05578929	7.84E-06
G	T	0.38	-0.2554697	0.05587742	7.03E-06
A	AC	0.38	-0.2557384	0.05584109	6.79E-06
CA	C	0.1	-0.3968745	0.08794723	9.12E-06
C	T	0.49	-0.2417471	0.05329214	8.22E-06
G	A	0.04	0.615173	0.136478	9.33E-06
A	T	0.01	-1.146957	0.2496332	6.36E-06
T	G	0.43	-0.2963958	0.05657473	3.13E-07
A	G	0.34	0.2374889	0.05075408	4.35E-06
T	A	0.21	0.3043228	0.06341736	2.53E-06
A	C	0.05	0.5576885	0.119441	4.55E-06
G	T	0.05	0.5426157	0.1188306	7.20E-06
T	G	0.05	0.5426157	0.1188306	7.20E-06
TA	T	0.05	0.5426157	0.1188306	7.20E-06
T	C	0.05	0.5426157	0.1188306	7.20E-06
C	T	0.05	0.5426157	0.1188306	7.20E-06
A	C	0.05	0.5426157	0.1188306	7.20E-06

TTG	T	0.25	0.2985802	0.0647353	5.87E-06
TACAC	T	0.12	-0.396156	0.08592503	5.92E-06
TA	T	0.05	-0.5920702	0.1288386	6.33E-06
T	C	0.2	0.3022084	0.06699743	9.20E-06
T	G	0.14	0.3987432	0.07971434	9.80E-07
A	T	0.39	-0.2580995	0.05380191	2.55E-06
C	T	0.25	-0.2999299	0.06280531	2.81E-06
A	G	0.26	-0.3117367	0.0608843	5.58E-07
C	G	0.26	-0.3147549	0.06086344	4.35E-07
C	G	0.26	-0.3147549	0.06086344	4.35E-07
T	C	0.26	-0.3138237	0.06087502	4.71E-07
A	G	0.26	-0.3164883	0.06053293	3.30E-07
A	G	0.01	1.118893	0.2360219	3.30E-06
T	C	0.01	1.018181	0.2241568	8.01E-06
G	A	0.01	1.118893	0.2360219	3.30E-06
T	A	0.01	1.118893	0.2360219	3.30E-06
C	T	0.01	1.130538	0.2489196	8.03E-06
T	G	0.01	1.084971	0.2414122	9.89E-06
T	C	0.02	1.004701	0.2145781	4.29E-06
C	T	0.02	1.072728	0.2193358	1.65E-06
A	AT	0.02	1.072728	0.2193358	1.65E-06
T	C	0.02	1.004701	0.2145781	4.29E-06
T	C	0.02	1.004701	0.2145781	4.29E-06
T	C	0.02	1.004701	0.2145781	4.29E-06
C	A	0.01	1.078141	0.2273619	3.28E-06
A	G	0.01	1.079117	0.2343436	6.07E-06
C	G	0.01	1.079117	0.2343436	6.07E-06
G	A	0.39	0.2664868	0.0558434	2.86E-06
A	ATTT	0.06	0.5447006	0.1108623	1.49E-06
C	A	0.33	0.2677498	0.05565356	2.39E-06
C	T	0.31	0.2953949	0.05655063	3.38E-07
A	G	0.01	1.104288	0.2455263	9.74E-06
G	A	0.29	-0.3052831	0.05678048	1.59E-07
T	C	0.21	-0.2979971	0.06579398	8.48E-06
C	T	0.02	0.9984206	0.2102937	3.19E-06
C	T	0.01	1.103158	0.2289023	2.30E-06
T	TACACACAC	0.03	-0.6201468	0.1048181	9.77E-09
T	C	0.01	0.8148919	0.1289721	1.09E-09
T	C	0.01	0.9004427	0.147264	3.37E-09
T	C	0.01	0.9143567	0.1348098	7.76E-11
G	A	0.02	-0.6906355	0.1163865	9.45E-09
G	T	0.32	0.1934803	0.03150378	2.94E-09
T	C	0.01	0.9044676	0.149637	4.93E-09
T	C	0.01	0.9068469	0.146299	2.13E-09
T	C	0.01	0.8354633	0.1361911	3.33E-09
T	C	0.01	0.9092424	0.1437203	1.04E-09
T	C	0.02	0.7095034	0.1121682	1.21E-09
G	A	0.22	0.2163012	0.03509485	2.57E-09
C	G	0.16	0.237481	0.03968855	6.83E-09
T	C	0.01	0.9414659	0.1523023	2.32E-09

T	C	0.02	0.7516962	0.1255655	7.14E-09
A	G	0.02	0.6814826	0.1110734	2.99E-09
A	C	0.01	0.9095195	0.1526438	7.82E-09
T	C	0.01	0.9095195	0.1526438	7.82E-09
C	T	0.01	0.9095195	0.1526438	7.82E-09
T	A	0.01	0.9095195	0.1526438	7.82E-09
T	G	0.01	0.9095195	0.1526438	7.82E-09
G	C	0.01	0.9095195	0.1526438	7.82E-09
A	G	0.01	0.9095195	0.1526438	7.82E-09
C	T	0.01	0.9039094	0.1476281	3.22E-09
T	G	0.01	0.9007132	0.143072	1.24E-09
A	G	0.02	0.710863	0.1195249	8.28E-09
T	C	0.01	0.7611761	0.1282513	8.84E-09
T	C	0.02	0.7539451	0.1225923	3.06E-09
T	C	0.01	0.871457	0.1370802	8.82E-10
T	C	0.02	0.8118145	0.127398	8.19E-10
T	C	0.01	0.9063015	0.1440252	1.26E-09
T	C	0.01	0.9413082	0.1496418	1.28E-09
T	TC	0.01	0.744791	0.1188268	1.43E-09
A	G	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
A	T	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
C	T	0.01	0.744791	0.1188268	1.43E-09
C	T	0.01	0.744791	0.1188268	1.43E-09
T	C	0.01	0.744791	0.1188268	1.43E-09
C	G	0.01	0.744791	0.1188268	1.43E-09
G	C	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
T	C	0.01	0.744791	0.1188268	1.43E-09
AC	A	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
A	G	0.01	0.744791	0.1188268	1.43E-09
C	T	0.01	0.744791	0.1188268	1.43E-09
C	T	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
G	T	0.01	0.744791	0.1188268	1.43E-09
G	A	0.01	0.744791	0.1188268	1.43E-09
A	G	0.01	0.744791	0.1188268	1.43E-09
A	G	0.02	0.7341003	0.1097091	1.30E-10
A	T	0.02	0.510837	0.08555631	7.32E-09
G	A	0.03	-0.334421	0.05582725	6.53E-09
G	A	0.03	-0.3497344	0.0570123	2.99E-09
G	T	0.03	-0.3497344	0.0570123	2.99E-09
G	A	0.03	-0.3497344	0.0570123	2.99E-09
T	C	0.23	-0.1408059	0.02343626	5.95E-09
T	C	0.23	-0.1398374	0.02324291	5.69E-09
T	C	0.25	-0.1380865	0.02191982	1.20E-09

C	T	0.23	-0.1429017	0.02342764	3.62E-09
A	G	0.23	-0.1392785	0.02324723	6.51E-09
G	A	0.01	0.4244379	0.07148073	8.75E-09
G	A	0.01	0.4244379	0.07148073	8.75E-09
A	G	0.01	0.4244379	0.07148073	8.75E-09
G	A	0.01	0.4244379	0.07148073	8.75E-09
TA	T	0.05	-0.3662898	0.06155245	9.27E-09
C	T	0.02	-0.7291494	0.12032	4.71E-09
C	T	0.01	0.9835322	0.1566743	1.38E-09
T	G	0.01	0.9835322	0.1566743	1.38E-09
A	G	0.02	0.7721299	0.1286276	6.17E-09
A	G	0.06	0.3852169	0.06060123	8.89E-10
C	T	0.04	0.4031856	0.06238589	5.31E-10
C	T	0.02	0.5680359	0.0951174	7.77E-09
G	T	0.01	0.8949445	0.1509341	9.13E-09
C	G	0.03	0.6373929	0.1073722	8.88E-09
T	A	0.03	0.6373929	0.1073722	8.88E-09
G	A	0.09	0.3243657	0.0543935	8.05E-09
G	T	0.01	0.7676493	0.1278682	6.14E-09
T	C	0.02	-0.7365614	0.1195984	2.65E-09
A	T	0.02	-0.7365614	0.1195984	2.65E-09
G	T	0.02	-0.7365614	0.1195984	2.65E-09
T	C	0.02	-0.7146485	0.1181291	4.79E-09
GGTGTGTGTGTGT	G	0.01	-1.130066	0.149547	7.38E-13
T	A	0.01	0.9317635	0.1551317	6.06E-09
G	A	0.08	0.2367981	0.05077749	4.65E-06
G	C	0.08	0.2367981	0.05077749	4.65E-06
A	G	0.08	0.2367981	0.05077749	4.65E-06
TTAGA	T	0.07	0.2346044	0.05166288	8.02E-06
T	A	0.08	0.2367981	0.05077749	4.65E-06
C	CAG	0.07	0.2389732	0.05219414	6.79E-06
G	A	0.08	0.2367981	0.05077749	4.65E-06
A	G	0.08	0.2367981	0.05077749	4.65E-06
G	A	0.08	0.2367981	0.05077749	4.65E-06
G	A	0.08	0.2367981	0.05077749	4.65E-06
C	T	0.08	0.2367981	0.05077749	4.65E-06
C	T	0.08	0.2367981	0.05077749	4.65E-06
A	G	0.08	0.2367981	0.05077749	4.65E-06
G	A	0.08	0.2367981	0.05077749	4.65E-06
A	T	0.08	0.2367981	0.05077749	4.65E-06
G	C	0.08	0.2367981	0.05077749	4.65E-06
T	C	0.08	0.2367981	0.05077749	4.65E-06
A	G	0.02	-0.477063	0.1055219	8.76E-06
G	C	0.02	-0.477063	0.1055219	8.76E-06
T	A	0.02	-0.4794271	0.1009185	3.13E-06
T	A	0.02	-0.477063	0.1055219	8.76E-06
A	T	0.19	0.1586394	0.03353216	3.43E-06
G	GT	0.13	-0.1890967	0.03891117	1.90E-06
CTGTGTGTG	C	0.11	-0.2077162	0.04397186	3.54E-06
C	CA	0.08	-0.2106107	0.04686472	9.86E-06

A	ATGTGTGTGTGTG	0.07	-0.2475164	0.05393113	6.47E-06
T	G	0.13	-0.1778804	0.0394936	9.43E-06
G	A	0.2	0.1517133	0.03350817	8.50E-06
A	G	0.37	-0.133223	0.02773128	2.45E-06
G	T	0.36	-0.1280614	0.0279334	6.62E-06
A	G	0.37	-0.1360924	0.02763828	1.41E-06
C	A	0.36	-0.1283465	0.0278803	6.08E-06
T	G	0.36	-0.1275753	0.02825923	9.01E-06
G	A	0.08	-0.2116169	0.04640734	7.38E-06
T	C	0.08	-0.2123318	0.04703422	9.01E-06
C	A	0.08	-0.2130138	0.0469057	8.01E-06
C	T	0.08	-0.2212519	0.04764625	5.08E-06
T	C	0.08	-0.2188128	0.04780633	6.84E-06
AGTGTGTGT	A	0.11	-0.2035815	0.04466465	7.44E-06
C	T	0.13	-0.1770007	0.0382268	5.40E-06
G	A	0.19	0.1700279	0.03374543	8.19E-07
GAACA	G	0.25	0.1437333	0.02975249	2.17E-06
C	T	0.25	0.138155	0.02977214	5.16E-06
T	C	0.25	0.138155	0.02977214	5.16E-06
A	T	0.25	0.138155	0.02977214	5.16E-06
G	A	0.24	0.1403229	0.02978873	3.76E-06
G	C	0.36	0.1370333	0.02725217	8.60E-07
G	T	0.25	0.1365212	0.02977615	6.60E-06
C	A	0.25	0.1371323	0.02982837	6.25E-06
G	C	0.35	-0.1363176	0.02940948	5.28E-06
G	A	0.04	0.3116638	0.06642995	4.10E-06
CTGTG	C	0.13	0.1991731	0.03966428	8.88E-07
G	A	0.16	-0.1684501	0.03613664	4.69E-06
TG	T	0.17	-0.1654179	0.03522407	4.01E-06
A	T	0.05	-0.2755814	0.06133302	9.89E-06
T	C	0.35	0.1310943	0.02885619	7.95E-06
A	G	0.03	0.3598739	0.08004295	9.77E-06
T	TACACACAC	0.03	0.354632	0.07840143	8.67E-06
G	T	0.34	0.129032	0.02709654	2.98E-06
T	C	0.09	-0.2181451	0.04524527	2.27E-06
G	A	0.08	-0.2301739	0.04937337	4.68E-06
AT	A	0.06	0.2641097	0.05843268	8.80E-06
TCACA	T	0.11	-0.2081429	0.04511177	5.80E-06
A	G	0.05	-0.2849679	0.06268555	7.85E-06
C	T	0.07	-0.2324392	0.05153925	9.19E-06
G	A	0.07	-0.2450543	0.05318161	5.96E-06
T	C	0.05	-0.284426	0.06280375	8.46E-06
G	GA	0.05	-0.294888	0.06451419	7.03E-06
A	C	0.05	-0.284426	0.06280375	8.46E-06
A	T	0.05	-0.284426	0.06280375	8.46E-06
A	G	0.05	-0.284426	0.06280375	8.46E-06
G	A	0.05	-0.284426	0.06280375	8.46E-06
C	T	0.05	-0.284426	0.06280375	8.46E-06
T	C	0.05	-0.2936332	0.06161887	2.93E-06
C	T	0.05	-0.2734808	0.06019373	7.94E-06

C	G	0.05	-0.2936332	0.06161887	2.93E-06
C	T	0.05	-0.2936332	0.06161887	2.93E-06
A	G	0.05	-0.284426	0.06280375	8.46E-06
A	G	0.05	-0.2936332	0.06161887	2.93E-06
TAC	T	0.05	-0.2936332	0.06161887	2.93E-06
C	T	0.05	-0.2936332	0.06161887	2.93E-06
A	C	0.05	-0.2801779	0.06125921	6.94E-06
G	T	0.05	-0.284426	0.06280375	8.46E-06
G	T	0.05	-0.2936332	0.06161887	2.93E-06
A	G	0.02	0.4591598	0.1013118	8.34E-06
A	GCTGCTGCTGCTGCT	0.03	0.3770767	0.0834542	8.86E-06
G	A	0.15	-0.1789547	0.03901428	6.55E-06
C	G	0.16	-0.1920901	0.03750213	5.49E-07
C	G	0.16	0.1844909	0.03615854	6.04E-07
C	T	0.47	-0.1252119	0.02625479	2.88E-06
G	A	0.4	-0.1252779	0.02765615	8.42E-06
T	C	0.46	0.1244401	0.02710244	6.41E-06
C	T	0.5	-0.122216	0.02643396	5.56E-06
A	C	0.46	0.127991	0.02703481	3.38E-06
A	C	0.46	0.1298694	0.02694646	2.28E-06
C	G	0.5	0.1243878	0.02647448	3.97E-06
T	C	0.47	0.1245003	0.02707434	6.22E-06
A	G	0.5	0.1260859	0.02643364	2.87E-06
A	G	0.5	0.1291587	0.02642707	1.67E-06
A	T	0.49	0.1345885	0.02638359	6.07E-07
T	C	0.49	0.1249396	0.02652851	3.78E-06
G	C	0.46	0.128126	0.02702828	3.28E-06
T	G	0.5	0.1263475	0.02661311	3.18E-06
G	A	0.5	0.1263475	0.02661311	3.18E-06
T	C	0.5	0.1224126	0.02662582	6.24E-06
A	G	0.5	0.1222904	0.02660341	6.26E-06
G	GTGTTT	0.12	-0.201311	0.04214139	2.78E-06
A	C	0.28	-0.1407924	0.03008909	4.33E-06
A	G	0.01	-0.7182405	0.120928	8.85E-09
C	A	0.02	-0.6467488	0.09295126	2.89E-11
C	T	0.02	-0.6802798	0.1049957	4.58E-10
C	T	0.02	-0.6788254	0.1133348	7.18E-09
G	A	0.02	-0.6788254	0.1133348	7.18E-09
T	C	0.02	-0.6787871	0.1124189	5.54E-09
T	G	0.01	-0.9007178	0.1443145	1.84E-09
G	T	0.01	-0.9007178	0.1443145	1.84E-09
GA	G	0.01	-0.9007178	0.1443145	1.84E-09
T	C	0.01	-0.9007178	0.1443145	1.84E-09
A	G	0.02	-0.8146149	0.1360664	7.28E-09
A	G	0.02	-0.8239906	0.1345352	3.48E-09
C	A	0.13	0.1836755	0.03079154	7.66E-09
G	T	0.13	0.1891681	0.03062026	2.42E-09
C	CTAT	0.13	0.195786	0.03144726	1.86E-09
A	G	0.06	-0.3436326	0.05804726	9.75E-09
T	C	0.1	0.1939169	0.03204199	4.81E-09

A	G	0.11	0.1911732	0.03198664	7.21E-09
G	A	0.09	0.2161925	0.03579015	5.12E-09
G	C	0.03	-0.6060946	0.1010536	7.19E-09
AT	A	0.03	-0.6060946	0.1010536	7.19E-09
C	T	0.03	-0.6060946	0.1010536	7.19E-09
A	G	0.03	-0.6060946	0.1010536	7.19E-09
G	A	0.03	-0.6060946	0.1010536	7.19E-09
C	T	0.03	-0.6060946	0.1010536	7.19E-09
A	G	0.03	-0.6060946	0.1010536	7.19E-09
T	G	0.03	-0.6060946	0.1010536	7.19E-09
A	G	0.03	-0.6060946	0.1010536	7.19E-09
G	GT	0.03	-0.6060946	0.1010536	7.19E-09
A	C	0.04	-0.6051516	0.09426694	7.63E-10
C	A	0.04	0.3262189	0.05316518	3.07E-09
T	A	0.02	0.892683	0.1339128	1.56E-10
T	C	0.07	-0.2275136	0.03821731	9.48E-09
A	G	0.35	-0.1815767	0.0299928	4.74E-09
C	G	0.34	-0.1815933	0.03011725	5.41E-09
T	C	0.05	0.6121012	0.1341856	7.79E-06
T	A	0.1	-0.4258069	0.09392304	8.80E-06
T	C	0.05	0.5701394	0.1186866	2.65E-06
C	T	0.05	-0.586881	0.1280996	7.14E-06
AGTGTGTGTGT	A	0.03	-0.7863577	0.1727234	8.10E-06
A	G	0.01	-1.114717	0.2411301	5.95E-06
C	T	0.02	0.9120915	0.1976535	6.17E-06
A	C	0.03	0.8752141	0.1856317	3.96E-06
CCT	C	0.03	0.8264554	0.1829275	9.42E-06
C	T	0.28	-0.3017964	0.06375801	3.64E-06
A	G	0.28	-0.3049414	0.06375084	2.91E-06
C	T	0.27	-0.3063632	0.06368248	2.57E-06
C	A	0.27	-0.3084199	0.0640009	2.48E-06
C	T	0.28	-0.3119403	0.06368638	1.72E-06
A	G	0.28	-0.3049414	0.06375084	2.91E-06
C	T	0.28	-0.3049414	0.06375084	2.91E-06
C	T	0.26	-0.3077027	0.06371977	2.37E-06
G	A	0.37	-0.2864533	0.06022915	3.29E-06
T	C	0.28	-0.3049414	0.06375084	2.91E-06
C	T	0.28	-0.3049414	0.06375084	2.91E-06
A	G	0.27	-0.3276677	0.06385158	5.79E-07
G	C	0.4	-0.2989268	0.0591673	8.43E-07
C	A	0.26	-0.3090305	0.06397178	2.35E-06
C	A	0.28	-0.3049414	0.06375084	2.91E-06
A	C	0.29	-0.2862171	0.06340659	9.58E-06
C	T	0.28	-0.3052442	0.0637429	2.84E-06
T	C	0.27	-0.2989033	0.06378496	4.50E-06
G	C	0.27	-0.309797	0.06369566	2.02E-06
A	G	0.27	-0.309797	0.06369566	2.02E-06
G	C	0.27	-0.309797	0.06369566	2.02E-06
T	TC	0.27	-0.3012681	0.06375223	3.77E-06
C	CTTATT	0.39	-0.2771993	0.06009236	6.22E-06

G	A	0.27	-0.301617	0.06420961	4.28E-06
T	C	0.38	-0.2791417	0.06055154	6.30E-06
G	A	0.27	-0.3040685	0.06370833	3.05E-06
G	GC	0.27	-0.299806	0.06399216	4.52E-06
TA	T	0.36	-0.2783863	0.06030098	6.12E-06
A	G	0.37	-0.2968512	0.06039651	1.60E-06
G	T	0.27	-0.2988515	0.06374498	4.46E-06
C	T	0.37	-0.2960533	0.06034528	1.66E-06
T	C	0.27	-0.309797	0.06369566	2.02E-06
C	CT	0.27	-0.3012681	0.06375223	3.77E-06
C	T	0.27	-0.309797	0.06369566	2.02E-06
C	G	0.27	-0.309797	0.06369566	2.02E-06
CT	C	0.27	-0.3012681	0.06375223	3.77E-06
A	G	0.25	-0.3019393	0.06520768	5.76E-06
A	G	0.28	-0.3127095	0.06369517	1.64E-06
C	T	0.37	-0.2913739	0.0602657	2.30E-06
G	A	0.27	-0.3140261	0.0639084	1.61E-06
T	A	0.37	-0.2960533	0.06034528	1.66E-06
T	C	0.37	-0.2968512	0.06039651	1.60E-06
C	T	0.37	-0.2913739	0.0602657	2.30E-06
T	A	0.27	-0.3137086	0.06385414	1.61E-06
T	C	0.39	-0.2750881	0.05980408	6.59E-06
G	A	0.27	-0.309797	0.06369566	2.02E-06
T	C	0.27	-0.309797	0.06369566	2.02E-06
A	G	0.28	-0.2894509	0.06423576	9.91E-06
C	T	0.26	-0.3031411	0.06637868	7.61E-06
A	C	0.43	-0.2694606	0.05704308	3.80E-06
G	A	0.4	-0.2845112	0.0594016	2.83E-06
C	A	0.42	-0.2638062	0.05800586	8.27E-06
G	A	0.42	-0.2685718	0.0577353	5.24E-06
A	C	0.42	-0.2619809	0.05777143	8.75E-06
G	A	0.42	-0.2683622	0.0578809	5.61E-06
T	C	0.02	-0.9128915	0.1927851	3.61E-06
T	C	0.17	0.4059527	0.07703098	2.98E-07
G	A	0.17	0.3995147	0.07765161	5.44E-07
A	G	0.17	0.3995147	0.07765161	5.44E-07
A	G	0.1	0.4890563	0.09609217	7.07E-07
C	T	0.38	0.2775943	0.05815186	3.04E-06
G	C	0.38	0.2724454	0.05811897	4.47E-06
G	T	0.38	0.2759864	0.0582342	3.55E-06
T	C	0.39	0.2704536	0.05785249	4.73E-06
G	A	0.13	0.3764041	0.08022495	4.39E-06
C	G	0.12	0.4145355	0.08883667	4.91E-06
G	A	0.12	0.4201188	0.08898987	3.85E-06
C	G	0.12	0.3973179	0.08775625	9.03E-06
T	C	0.33	-0.2642705	0.05837557	9.05E-06
G	T	0.33	-0.2768285	0.06089189	8.33E-06
C	CTCTT	0.06	-0.5312253	0.1148919	5.93E-06
G	A	0.39	0.2555818	0.05619975	8.27E-06
C	T	0.01	-1.152409	0.2500889	6.36E-06

A	G	0.01	-1.112694	0.2427197	7.05E-06
A	AT	0.01	1.191102	0.2499454	3.15E-06
C	T	0.01	1.265296	0.275285	6.69E-06
A	G	0.01	-1.212022	0.2608014	5.34E-06
A	G	0.32	0.2782048	0.05947562	4.67E-06
T	G	0.26	0.276385	0.06026841	7.00E-06
C	T	0.02	-0.9134407	0.189982	2.60E-06
C	T	0.15	-0.3664995	0.0808489	8.82E-06
G	A	0.13	-0.3847814	0.08526102	9.62E-06
G	C	0.22	-0.3195094	0.07084725	9.75E-06
C	T	0.03	-0.735558	0.1602821	6.90E-06
G	C	0.04	-0.6886665	0.1522737	9.23E-06
T	C	0.04	-0.6886665	0.1522737	9.23E-06
T	A	0.04	-0.6886665	0.1522737	9.23E-06
T	G	0.04	-0.6886665	0.1522737	9.23E-06
A	C	0.04	-0.6886665	0.1522737	9.23E-06
GC	G	0.04	-0.6886665	0.1522737	9.23E-06
AAAG	A	0.04	-0.6886665	0.1522737	9.23E-06
C	T	0.04	-0.710694	0.1554617	7.46E-06
G	T	0.03	-0.793982	0.1628175	1.90E-06
G	T	0.02	0.8644769	0.187433	6.24E-06
T	C	0.02	0.908278	0.1938025	4.49E-06
T	C	0.03	0.723644	0.1558392	5.43E-06
A	G	0.36	-0.284399	0.05895001	2.42E-06
A	G	0.36	-0.2688153	0.05929082	8.79E-06
G	C	0.02	-0.9532383	0.1932442	1.47E-06
G	A	0.02	-0.9758361	0.193678	8.99E-07
T	C	0.11	0.4382442	0.09381295	4.80E-06
T	C	0.36	-0.2667918	0.0569288	4.49E-06
G	A	0.36	-0.2609671	0.05701602	7.28E-06
G	A	0.36	-0.264028	0.05716319	6.06E-06
T	A	0.16	0.3737328	0.07998791	4.78E-06
G	A	0.05	0.6197449	0.1275991	2.08E-06
TTTCCTTCC	T	0.04	0.6442479	0.1371604	4.29E-06
C	A	0.05	0.5863992	0.1294239	8.91E-06
G	A	0.05	0.6273514	0.1365908	6.79E-06
C	T	0.05	0.6273514	0.1365908	6.79E-06
G	C	0.11	0.407739	0.08968605	8.33E-06
C	T	0.03	0.8375181	0.1776112	3.95E-06
T	A	0.15	0.3557504	0.07733179	6.57E-06
C	.TGTGTGTGTGTGTGT	0.03	0.7310657	0.1527441	2.87E-06
G	A	0.02	0.9948836	0.2082562	2.99E-06
G	C	0.02	1.03567	0.2127224	1.97E-06
A	G	0.08	0.4650186	0.103129	9.79E-06
G	C	0.02	1.03567	0.2127224	1.97E-06
C	T	0.1	0.4799067	0.09554802	9.68E-07
C	G	0.11	0.4479273	0.09420476	3.31E-06
T	C	0.03	-0.8196882	0.1751129	4.60E-06
T	C	0.19	-0.3433282	0.07138034	2.58E-06
A	T	0.2	-0.3294812	0.0710035	5.51E-06

G	A	0.02	-0.9531404	0.2047709	5.17E-06
T	TAC	0.03	-0.7691356	0.1588714	2.24E-06
G	T	0.16	-0.3486267	0.07626978	7.48E-06
C	A	0.14	-0.3833201	0.08150232	4.17E-06
C	T	0.48	-0.2738583	0.05626446	1.99E-06
A	G	0.43	-0.2684923	0.05768154	5.17E-06
T	C	0.43	-0.2984114	0.05664172	3.01E-07
G	A	0.42	-0.2733337	0.05766949	3.54E-06
T	C	0.11	0.4031558	0.08916599	9.28E-06
C	T	0.03	0.8349518	0.1804124	5.82E-06
G	A	0.02	-0.8606152	0.1428968	6.70E-09
T	C	0.17	0.3430891	0.05766054	9.72E-09
T	C	0.02	1.005657	0.2175905	5.61E-06
A	C	0.02	1.005657	0.2175905	5.61E-06
T	C	0.02	1.005657	0.2175905	5.61E-06
G	C	0.02	1.005657	0.2175905	5.61E-06
C	T	0.02	1.005657	0.2175905	5.61E-06
A	GCGTGCGTGACATACG	0.03	0.699078	0.1510933	5.48E-06
C	T	0.04	0.6367262	0.1376686	5.53E-06
C	T	0.02	0.9162987	0.1949395	3.94E-06
AT	A	0.23	0.3039196	0.06281204	2.09E-06
C	T	0.06	0.5323698	0.1101969	2.17E-06
A	T	0.06	0.5323698	0.1101969	2.17E-06
G	GT	0.18	-0.3400698	0.06981893	1.80E-06
T	G	0.03	0.7049757	0.1563221	9.20E-06
T	TA	0.17	-0.3425401	0.07065569	2.00E-06
C	T	0.43	0.2361785	0.05153133	6.66E-06
A	G	0.11	0.4099518	0.08113948	7.67E-07
G	A	0.12	0.4097531	0.08013543	5.73E-07
CTTTTCTT	C	0.02	0.8624982	0.1919806	9.92E-06
T	C	0.02	0.9271317	0.1788632	4.08E-07
CTGTGTG	C	0.18	0.3615805	0.07187553	8.51E-07
A	G	0.44	-0.2448895	0.05180449	3.49E-06
A	G	0.04	0.5803581	0.1244548	4.66E-06
C	T	0.04	0.5803581	0.1244548	4.66E-06
T	G	0.05	-0.5793466	0.1219042	3.11E-06
A	G	0.05	-0.5793466	0.1219042	3.11E-06
C	T	0.05	-0.5793466	0.1219042	3.11E-06
G	A	0.05	-0.5793466	0.1219042	3.11E-06
G	A	0.05	-0.5793466	0.1219042	3.11E-06
A	ATTTAT	0.09	0.423151	0.09127785	5.27E-06
G	A	0.03	0.734807	0.1528659	2.42E-06
G	GA	0.16	-0.3281687	0.07296336	9.70E-06
TACAC	T	0.01	1.363267	0.2455239	6.48E-08
C	G	0.02	0.8468093	0.1815672	4.64E-06
C	T	0.01	1.243707	0.2584313	2.36E-06
CT	C	0.39	0.2551591	0.05489632	4.99E-06
T	C	0.05	0.6025113	0.1262126	2.82E-06
C	A	0.05	0.5931864	0.1245148	2.95E-06
A	G	0.04	0.600153	0.1332841	9.49E-06

C	T	0.03	0.7446594	0.1602985	5.04E-06
G	A	0.09	-0.4308245	0.09451521	7.44E-06
A	G	0.07	-0.4612674	0.1025251	9.65E-06
C	T	0.07	-0.4802322	0.1060746	8.52E-06
A	AAAACAAAC	0.07	-0.4781415	0.1045112	6.90E-06
G	C	0.07	-0.489399	0.1030056	3.13E-06
A	G	0.07	-0.4663593	0.1016128	6.47E-06
G	A	0.01	1.364353	0.2612183	3.36E-07
G	A	0.01	1.364353	0.2612183	3.36E-07
G	A	0.45	0.2576616	0.0551956	4.56E-06
C	T	0.45	0.2645147	0.05521612	2.61E-06
A	G	0.45	0.2609389	0.05552281	3.95E-06
T	C	0.47	0.261099	0.0554184	3.75E-06
G	A	0.47	0.2506956	0.05535301	8.46E-06
A	G	0.47	0.254305	0.05558259	6.90E-06
T	C	0.47	0.2511342	0.05533325	8.11E-06
G	T	0.47	0.251229	0.05560691	8.88E-06
T	C	0.01	1.284584	0.2666553	2.31E-06
A	AC	0.15	-0.3271125	0.07190951	7.75E-06
A	G	0.14	-0.3388105	0.07338917	5.74E-06
T	TACACACAC	0.02	0.8000289	0.1716601	4.71E-06
G	A	0.22	0.2868952	0.061628	4.83E-06
C	A	0.01	1.15009	0.2445707	3.90E-06
A	T	0.01	1.245669	0.2354784	2.42E-07
C	G	0.27	0.2756901	0.0581845	3.32E-06
G	GT	0.02	0.9650967	0.2000347	2.23E-06
G	A	0.01	0.6707936	0.1118041	6.19E-09
G	A	0.01	0.6707936	0.1118041	6.19E-09
C	T	0.01	1.102062	0.158074	2.51E-11
T	G	0.01	1.102062	0.158074	2.51E-11
T	TC	0.01	0.9045263	0.1369255	2.12E-10
A	G	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
A	T	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
C	T	0.01	0.9045263	0.1369255	2.12E-10
C	T	0.01	0.9045263	0.1369255	2.12E-10
T	C	0.01	0.9045263	0.1369255	2.12E-10
C	G	0.01	0.9045263	0.1369255	2.12E-10
G	C	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
T	C	0.01	0.9045263	0.1369255	2.12E-10
AC	A	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
A	G	0.01	0.9045263	0.1369255	2.12E-10
C	T	0.01	0.9045263	0.1369255	2.12E-10
C	T	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10

G	T	0.01	0.9045263	0.1369255	2.12E-10
G	A	0.01	0.9045263	0.1369255	2.12E-10
A	G	0.01	0.9045263	0.1369255	2.12E-10
T	C	0.02	0.8271551	0.1342219	2.56E-09
A	G	0.02	0.8271551	0.1342219	2.56E-09
T	C	0.02	0.8271551	0.1342219	2.56E-09
C	G	0.02	0.8271551	0.1342219	2.56E-09
C	T	0.02	0.8271551	0.1342219	2.56E-09
AG	A	0.02	0.8271551	0.1342219	2.56E-09
T	A	0.02	0.8271551	0.1342219	2.56E-09
A	G	0.02	0.8271551	0.1342219	2.56E-09
A	G	0.02	0.8685778	0.1268864	5.29E-11
A	AT	0.02	0.8271551	0.1342219	2.56E-09
TACAC	T	0.01	0.7348595	0.1176209	1.60E-09
G	A	0.01	0.728787	0.1131	5.33E-10
G	A	0.01	0.728787	0.1131	5.33E-10
A	C	0.02	1.044678	0.173851	7.25E-09
C	T	0.01	-0.8794956	0.1447583	4.10E-09
G	A	0.01	0.7583795	0.1150957	2.36E-10
G	A	0.01	0.7583795	0.1150957	2.36E-10
C	CACCT	0.01	0.8190572	0.1348905	4.39E-09
T	TA	0.02	0.7181014	0.1170782	3.14E-09
G	A	0.02	0.7181014	0.1170782	3.14E-09
G	A	0.01	0.7002391	0.1061264	2.66E-10
G	A	0.01	0.7002391	0.1061264	2.66E-10
T	G	0.02	-0.4889105	0.1071054	7.22E-06
G	A	0.02	-0.4925366	0.1047212	3.88E-06
T	C	0.01	-0.5340502	0.115066	5.14E-06
T	C	0.02	0.4093811	0.08786796	4.74E-06
TA	T	0.02	-0.3398918	0.07257384	4.25E-06
C	T	0.15	0.1783151	0.0369619	2.24E-06
AG	A	0.15	0.1757874	0.03719408	3.50E-06
T	G	0.15	0.1722422	0.0371604	5.28E-06
T	C	0.15	0.1722422	0.0371604	5.28E-06
C	T	0.15	0.1722422	0.0371604	5.28E-06
A	G	0.17	0.1714138	0.03609322	3.15E-06
A	G	0.18	0.1579004	0.03502931	9.28E-06
C	T	0.18	0.1579004	0.03502931	9.28E-06
A	C	0.11	0.1993432	0.04422454	9.29E-06
T	TA	0.03	0.3492639	0.07443853	4.09E-06
A	G	0.2	0.1433628	0.03165921	8.48E-06
C	CTCTT	0.12	-0.1980913	0.0418001	3.30E-06
G	A	0.26	-0.1318508	0.02849356	5.47E-06
ATCT	A	0.07	0.2333365	0.05156943	8.62E-06
C	CTG	0.32	0.128218	0.02792778	6.43E-06
A	G	0.08	0.22443	0.04888943	6.44E-06
T	C	0.08	0.2183431	0.04845924	9.36E-06
T	TA	0.08	0.2183431	0.04845924	9.36E-06
G	T	0.08	0.2222747	0.04830457	6.13E-06
A	G	0.08	0.2350853	0.04797234	1.57E-06

C	T	0.08	0.231808	0.04873274	3.05E-06
G	A	0.08	0.2146114	0.04710319	7.50E-06
T	C	0.08	0.231808	0.04873274	3.05E-06
C	T	0.08	0.231808	0.04873274	3.05E-06
G	A	0.08	0.2357041	0.04857174	1.96E-06
A	AACTT	0.08	0.231808	0.04873274	3.05E-06
G	GGTGT	0.06	0.2583376	0.05393042	2.61E-06
G	A	0.07	0.2418091	0.05178226	4.52E-06
A	G	0.08	0.2280668	0.04889877	4.64E-06
T	C	0.09	0.2135028	0.04391216	1.88E-06
C	T	0.08	0.231808	0.04873274	3.05E-06
C	T	0.08	0.2177514	0.04784994	7.68E-06
T	C	0.08	0.2373082	0.04722855	8.75E-07
C	T	0.07	0.2352357	0.05209536	8.97E-06
C	T	0.07	0.2352357	0.05209536	8.97E-06
T	C	0.07	0.2378821	0.05242746	8.15E-06
T	C	0.07	0.2326588	0.05178439	9.91E-06
T	G	0.39	0.1222142	0.02555151	2.70E-06
T	G	0.39	0.1224148	0.02555711	2.62E-06
C	T	0.39	0.1231373	0.02548498	2.16E-06
T	C	0.35	0.1294761	0.02699616	2.55E-06
G	A	0.04	-0.279638	0.06178827	8.58E-06
A	G	0.04	-0.279638	0.06178827	8.58E-06
G	A	0.48	-0.1145369	0.02509017	7.21E-06
T	C	0.48	-0.1160133	0.02519692	6.06E-06
C	A	0.48	-0.1160133	0.02519692	6.06E-06
T	C	0.48	-0.1149785	0.02524239	7.54E-06
CTG	C	0.11	0.1919014	0.04239324	8.54E-06
C	T	0.12	-0.1953438	0.04078414	2.62E-06
G	A	0.09	0.2027959	0.04354898	4.79E-06
A	G	0.14	-0.1682078	0.03730039	9.21E-06
C	T	0.13	0.1791095	0.03951343	8.31E-06
T	G	0.13	0.1791095	0.03951343	8.31E-06
C	T	0.13	0.1791095	0.03951343	8.31E-06
G	A	0.13	0.1791095	0.03951343	8.31E-06
C	A	0.13	0.1788997	0.0394945	8.43E-06
C	A	0.29	-0.126318	0.02782421	8.06E-06
G	C	0.02	-0.4594168	0.100657	7.24E-06
T	A	0.02	-0.3856836	0.0847402	7.66E-06
G	¡ACACACACACACA	0.05	-0.2910095	0.05748007	7.29E-07
T	C	0.03	-0.3313147	0.07273843	7.54E-06
T	TTTTA	0.04	-0.2845741	0.06300532	8.93E-06
GT	G	0.15	-0.161177	0.0351856	6.73E-06
AACAT	A	0.04	-0.2986722	0.06638444	9.64E-06
G	A	0.21	-0.1466871	0.03060852	2.59E-06
A	G	0.21	-0.1466871	0.03060852	2.59E-06
A	G	0.2	-0.1428831	0.03121472	6.83E-06
G	C	0.02	-0.3999879	0.08603837	4.96E-06
T	C	0.02	-0.4226846	0.09314934	8.14E-06
T	G	0.02	-0.431101	0.0914473	3.70E-06

A	G	0.1	-0.1844546	0.04016958	6.40E-06
A	G	0.1	-0.1815041	0.04009188	8.52E-06
T	TTTTC	0.06	-0.245694	0.05225004	3.90E-06
T	G	0.05	-0.2622638	0.05809192	9.01E-06
G	A	0.07	0.2205104	0.04903249	9.72E-06
A	T	0.01	-0.4873319	0.1081264	9.31E-06
T	A	0.37	0.1212631	0.02629725	5.87E-06
T	C	0.43	0.1188661	0.02605433	7.30E-06
C	T	0.05	-0.2604672	0.05624666	5.38E-06
C	T	0.05	-0.2604672	0.05624666	5.38E-06
C	T	0.05	-0.2604672	0.05624666	5.38E-06
T	A	0.06	-0.2298738	0.04965858	5.42E-06
A	C	0.49	0.1130072	0.02500075	8.79E-06
C	T	0.46	0.1134982	0.02477447	6.71E-06
A	T	0.48	0.1144728	0.02509701	7.34E-06
C	T	0.21	-0.1456055	0.03118743	4.54E-06
TTATG	T	0.44	0.1177911	0.02575034	6.92E-06
A	G	0.45	-0.1175765	0.02554095	6.08E-06
TTG	T	0.02	-0.4509437	0.09800404	6.14E-06
G	A	0.15	-0.1561858	0.0347465	9.81E-06
G	A	0.15	-0.1561858	0.0347465	9.81E-06
GT	G	0.1	0.1915153	0.0422992	8.51E-06
T	C	0.44	0.1148859	0.02393591	2.50E-06
C	T	0.45	0.1092477	0.02400879	7.70E-06
T	C	0.45	0.1127307	0.023997	3.98E-06
A	C	0.45	0.1092477	0.02400879	7.70E-06
A	C	0.46	0.1067864	0.02377879	9.99E-06
C	G	0.44	0.1096833	0.02385151	6.21E-06
C	CTA	0.44	0.1115693	0.02398246	4.89E-06
G	GTA	0.44	0.1147133	0.02397039	2.67E-06
G	T	0.45	0.1093509	0.02395124	7.20E-06
A	C	0.45	0.1114916	0.02398297	4.97E-06
G	C	0.39	0.1161001	0.02519876	5.98E-06
G	GA	0.45	0.1076401	0.02391296	9.55E-06
G	A	0.45	0.1126084	0.0238904	3.71E-06
A	C	0.45	0.111979	0.02387641	4.13E-06
A	G	0.45	0.1170654	0.02385873	1.53E-06
T	C	0.1	-0.1975814	0.04348666	7.93E-06
A	AG	0.03	-0.3690704	0.07626563	2.09E-06
A	G	0.03	-0.3618878	0.07727792	4.26E-06
TACACAC	T	0.03	0.331143	0.06904257	2.54E-06
A	G	0.06	0.2308513	0.05113827	9.02E-06
G	T	0.04	0.3042431	0.06653217	6.97E-06
G	T	0.12	0.1704087	0.03757598	8.23E-06
C	T	0.01	0.5439242	0.116835	4.82E-06
C	A	0.01	0.4974313	0.1072967	5.26E-06
A	G	0.02	0.4785939	0.09692242	1.32E-06
A	T	0.17	-0.1528783	0.03234799	3.50E-06
T	G	0.19	-0.1499555	0.0314633	2.92E-06
C	T	0.17	-0.1531353	0.03250949	3.76E-06

C	T	0.03	0.3285227	0.07123898	5.87E-06
AATCT	A	0.01	0.566683	0.1231297	6.11E-06
G	A	0.05	0.2796	0.05658223	1.30E-06
A	G	0.22	0.1313719	0.02915235	9.34E-06
C	A	0.01	0.4907032	0.1052672	4.69E-06
G	C	0.01	0.5541418	0.1214325	7.27E-06
C	CGTGTGTGTGTGTGT	0.02	0.3885245	0.08484263	6.77E-06
A	ATG	0.02	0.3734476	0.08270579	8.98E-06
C	T	0.03	0.3600734	0.07739851	4.89E-06
T	TA	0.03	0.3109787	0.06518809	2.86E-06
G	A	0.23	0.1451261	0.02974767	1.74E-06
G	A	0.23	0.1451261	0.02974767	1.74E-06
T	G	0.23	0.1543217	0.02993961	4.69E-07
A	G	0.23	0.1466411	0.02972484	1.35E-06
G	T	0.23	0.1498216	0.02983952	8.90E-07
A	G	0.25	0.1418842	0.02883314	1.43E-06
G	T	0.23	0.1451261	0.02974767	1.74E-06
T	C	0.23	0.1451261	0.02974767	1.74E-06
C	T	0.22	0.15052	0.03013816	1.01E-06
G	A	0.23	0.1447342	0.03014345	2.48E-06
C	T	0.24	0.1439069	0.0295662	1.83E-06
G	A	0.01	0.5509426	0.1178997	4.45E-06
T	A	0.02	0.5214341	0.09354906	5.80E-08
G	T	0.02	0.5021769	0.09729312	4.54E-07
G	A	0.01	0.5686655	0.1229729	5.54E-06
ACACG	A	0.02	0.3915997	0.08592205	7.45E-06
A	AAAC	0.14	-0.164683	0.03609185	7.28E-06
G	A	0.02	0.3915972	0.08276381	3.42E-06
CTG	C	0.03	0.3145867	0.06847165	6.33E-06
C	T	0.03	0.3103182	0.06824567	7.81E-06
T	G	0.04	0.3149489	0.06648909	3.34E-06
A	G	0.04	0.3149489	0.06648909	3.34E-06
C	T	0.04	0.3149489	0.06648909	3.34E-06
T	C	0.04	0.3149489	0.06648909	3.34E-06
C	A	0.04	0.3149489	0.06648909	3.34E-06
C	A	0.04	0.3149489	0.06648909	3.34E-06
G	T	0.04	0.3149489	0.06648909	3.34E-06
C	T	0.04	0.3165968	0.06761276	4.27E-06
G	A	0.03	0.3554824	0.06875217	4.34E-07
G	A	0.04	0.3059605	0.06712049	7.43E-06
GC	G	0.04	0.3036219	0.067235	8.96E-06
T	C	0.1	0.1907593	0.0415478	6.42E-06
T	C	0.09	0.2132056	0.04283472	1.09E-06
G	A	0.09	0.1994397	0.04304994	5.34E-06
A	AAAAC	0.09	0.1930689	0.04183543	5.78E-06
A	G	0.09	0.2126882	0.04264617	1.04E-06
C	T	0.09	0.2002656	0.04253396	3.80E-06
T	C	0.09	0.2127493	0.04263595	1.03E-06
A	G	0.01	-1.191042	0.2320691	5.22E-07
C	T	0.01	-1.13486	0.2331275	1.83E-06

G	A	0.03	-0.7659121	0.1696121	8.96E-06
T	C	0.02	-0.8979691	0.1724216	3.62E-07
C	T	0.02	-1.068484	0.1896496	4.26E-08
C	CATCTATCT	0.01	-1.129551	0.2301432	1.52E-06
T	TG	0.02	-0.852309	0.1832969	4.94E-06
T	C	0.02	-1.051507	0.211204	1.09E-06
G	C	0.01	-1.027537	0.2264338	8.13E-06
A	C	0.01	-1.027537	0.2264338	8.13E-06
CT	C	0.01	-1.067478	0.2156493	1.24E-06
A	T	0.01	-1.203268	0.2623237	6.54E-06
G	A	0.01	-1.262889	0.2525987	9.85E-07
G	A	0.11	0.4059877	0.08715095	4.76E-06
G	A	0.09	0.4338709	0.09418913	6.00E-06
AAAAAGAAG	A	0.16	0.3498869	0.07454689	4.06E-06
CCTT	C	0.05	-0.5588811	0.1169089	2.73E-06
T	TA	0.17	-0.3082942	0.06756001	7.27E-06
C	T	0.18	0.3140058	0.06843607	6.51E-06
T	C	0.01	-1.199858	0.2667789	9.70E-06
T	C	0.02	-0.8896619	0.1860583	2.72E-06
A	ACAGATAGCC	0.18	-0.3293942	0.06906311	2.88E-06
G	A	0.01	-1.146691	0.2361813	1.94E-06
C	T	0.01	-1.241914	0.2605449	2.91E-06
G	C	0.44	-0.2438335	0.05275833	5.61E-06
C	T	0.02	-0.8186891	0.1771111	5.59E-06
A	G	0.01	-1.349239	0.2611825	4.44E-07
A	T	0.19	-0.2964438	0.06399412	5.35E-06
C	T	0.4	-0.2605651	0.05502931	3.36E-06
AT	A	0.4	-0.2501257	0.05509362	8.05E-06
T	C	0.01	-1.165479	0.2590429	9.64E-06
G	A	0.37	-0.2621076	0.05508588	3.03E-06
C	T	0.02	-0.8092312	0.1782804	8.09E-06
G	C	0.02	-0.8092312	0.1782804	8.09E-06
C	T	0.02	-0.8370626	0.1841537	7.86E-06
G	A	0.02	-0.8092312	0.1782804	8.09E-06
G	A	0.04	-0.6840329	0.1375922	1.13E-06
TTTTA	T	0.07	-0.4928593	0.1038276	3.19E-06
A	AGT	0.07	-0.4911654	0.1083173	8.25E-06
C	CTCTTTCTTTCTTTCTT	0.02	-0.817136	0.1724407	3.31E-06
G	A	0.03	-0.7082893	0.1560366	8.08E-06
A	G	0.03	-0.7082893	0.1560366	8.08E-06
T	C	0.03	-0.7082893	0.1560366	8.08E-06
A	G	0.03	-0.7082893	0.1560366	8.08E-06
C	T	0.03	-0.7082893	0.1560366	8.08E-06
C	T	0.03	-0.7082893	0.1560366	8.08E-06
C	CA	0.03	-0.7082893	0.1560366	8.08E-06
G	A	0.03	-0.7082893	0.1560366	8.08E-06
C	T	0.03	-0.7082893	0.1560366	8.08E-06
C	T	0.03	-0.7437269	0.1526664	1.80E-06
A	C	0.02	-0.9205479	0.1828119	8.31E-07
C	T	0.01	-1.178135	0.2420438	1.83E-06

A	AT	0.02	-0.8907616	0.1848812	2.30E-06
A	G	0.02	-0.8811536	0.1798199	1.57E-06
T	A	0.02	-0.9266313	0.1826129	6.90E-07
TAC	T	0.06	-0.5624489	0.1092782	4.87E-07
T	A	0.02	-0.9236621	0.181912	6.80E-07
A	G	0.36	0.2550692	0.05458003	4.45E-06
C	A	0.36	0.2507836	0.05452907	6.20E-06
T	C	0.37	0.2762323	0.05456353	7.30E-07
T	A	0.37	0.2463754	0.05425381	8.01E-06
C	T	0.36	0.254835	0.05465277	4.66E-06
C	G	0.35	0.25679	0.05488631	4.34E-06
C	A	0.1	-0.3996615	0.08781641	7.67E-06
C	T	0.1	-0.3996615	0.08781641	7.67E-06
G	GA	0.1	-0.3996615	0.08781641	7.67E-06
A	AACACACACAC	0.02	-0.7536849	0.162859	5.45E-06
G	A	0.02	-1.000838	0.2153601	5.00E-06
T	A	0.02	-1.071898	0.2180208	1.46E-06
C	A	0.02	-1.000838	0.2153601	5.00E-06
T	G	0.02	-1.000838	0.2153601	5.00E-06
C	T	0.02	-1.000838	0.2153601	5.00E-06
A	G	0.02	-1.000838	0.2153601	5.00E-06
C	T	0.01	-1.215118	0.2255748	1.50E-07
G	GA	0.03	-0.724716	0.1609325	9.47E-06
G	A	0.02	-1.001568	0.2184621	6.61E-06
A	AACAC	0.01	-1.195406	0.235849	7.10E-07
T	C	0.02	-0.9081282	0.1676723	1.29E-07
C	T	0.03	-0.7325048	0.1540974	3.09E-06
ATG	A	0.09	-0.4222826	0.0937001	9.32E-06
C	CAT	0.02	-1.073959	0.2184283	1.45E-06
C	T	0.06	-0.5069518	0.1120483	8.63E-06
A	G	0.06	-0.520568	0.1139515	7.11E-06
C	G	0.06	-0.5050733	0.1122604	9.64E-06
T	C	0.02	-0.9192938	0.1994044	5.90E-06
G	T	0.08	-0.4557599	0.09654536	3.59E-06
C	T	0.08	-0.4413962	0.09458457	4.58E-06
AC	A	0.08	-0.4554001	0.09709501	4.12E-06
G	T	0.08	-0.4652014	0.09521678	1.68E-06
A	G	0.08	-0.4500521	0.09475826	3.15E-06
TTATA	T	0.08	-0.4570029	0.09567406	2.78E-06
A	C	0.06	-0.5285113	0.1058062	1.01E-06
T	C	0.08	-0.4500521	0.09475826	3.15E-06
G	A	0.08	-0.4662065	0.09588538	1.88E-06
A	G	0.08	-0.4500521	0.09475826	3.15E-06
A	C	0.08	-0.4545192	0.09564499	3.11E-06
A	G	0.08	-0.440361	0.0950818	5.37E-06
C	T	0.08	-0.4532492	0.09509492	2.92E-06
T	C	0.08	-0.469986	0.09589543	1.57E-06
T	A	0.08	-0.440361	0.0950818	5.37E-06
C	T	0.08	-0.4309896	0.09535283	8.80E-06
C	A	0.08	-0.4405587	0.09438018	4.56E-06

G	A	0.08	-0.4509739	0.09465984	2.95E-06
T	C	0.08	-0.4490277	0.09466634	3.24E-06
C	G	0.08	-0.433357	0.09431058	6.31E-06
T	G	0.08	-0.4430645	0.09600524	5.78E-06
G	T	0.08	-0.4472107	0.09486277	3.70E-06
C	CTGTT	0.08	-0.4458629	0.09463034	3.74E-06
T	C	0.08	-0.4512838	0.09560791	3.60E-06
C	T	0.08	-0.460042	0.09519123	2.15E-06
C	T	0.08	-0.4458629	0.09463034	3.74E-06
C	T	0.08	-0.4458629	0.09463034	3.74E-06
G	T	0.08	-0.4469817	0.09660155	5.47E-06
T	C	0.08	-0.4454628	0.09494758	4.09E-06
G	A	0.07	-0.4767498	0.09784089	1.79E-06
C	T	0.07	-0.4831004	0.102743	3.91E-06
T	C	0.08	-0.4512838	0.09560791	3.60E-06
G	A	0.08	-0.460042	0.09519123	2.15E-06
C	T	0.08	-0.460042	0.09519123	2.15E-06
A	C	0.08	-0.4498052	0.09678024	4.99E-06
G	A	0.08	-0.460042	0.09519123	2.15E-06
C	T	0.08	-0.4458629	0.09463034	3.74E-06
T	C	0.08	-0.4658473	0.0961879	2.05E-06
C	T	0.08	-0.460042	0.09519123	2.15E-06
C	G	0.08	-0.460042	0.09519123	2.15E-06
A	T	0.08	-0.460042	0.09519123	2.15E-06
G	A	0.08	-0.460042	0.09519123	2.15E-06
G	T	0.08	-0.4351903	0.09370658	5.07E-06
A	T	0.08	-0.4536037	0.0940545	2.25E-06
T	C	0.08	-0.4305317	0.09402372	6.78E-06
G	C	0.08	-0.4683642	0.09330504	8.96E-07
C	G	0.08	-0.4219521	0.09321827	8.55E-06
T	G	0.08	-0.4583592	0.09318332	1.44E-06
T	C	0.06	0.4993989	0.1110324	9.70E-06
G	T	0.02	-0.9665785	0.2101465	6.19E-06
G	T	0.02	-0.9665785	0.2101465	6.19E-06
G	T	0.02	-0.9665785	0.2101465	6.19E-06
G	A	0.02	-0.8209834	0.1801749	7.49E-06
T	G	0.02	-0.9155533	0.1991662	6.26E-06
A	T	0.08	-0.4826725	0.0981558	1.45E-06
C	T	0.08	-0.4593459	0.09863514	4.79E-06
G	A	0.1	-0.4373646	0.08942577	1.64E-06
G	A	0.1	-0.4308543	0.0898177	2.53E-06
A	C	0.02	-0.9460393	0.1928745	1.54E-06
C	T	0.01	-1.074522	0.2302359	4.58E-06
G	T	0.1	-0.4195438	0.08666263	2.07E-06
G	T	0.02	-0.7732189	0.1670266	5.42E-06
C	T	0.02	-0.7920716	0.1692471	4.32E-06
G	A	0.02	-0.7920716	0.1692471	4.32E-06
G	A	0.02	-0.9963271	0.1976528	8.10E-07
G	A	0.01	-1.091941	0.2346914	4.88E-06
G	C	0.03	-0.7522049	0.1550937	1.98E-06

T	C	0.04	-0.7168188	0.14147	7.15E-07
G	T	0.17	-0.3139445	0.06821789	6.12E-06
A	C	0.17	-0.3123908	0.0679583	6.26E-06
T	C	0.17	-0.3123908	0.0679583	6.26E-06
G	C	0.17	-0.3123908	0.0679583	6.26E-06
GAGAA	G	0.17	-0.3100856	0.0687474	9.17E-06
T	TCTAAAA	0.16	-0.3245378	0.06903557	3.93E-06
T	C	0.16	-0.3146289	0.06837275	6.13E-06
A	G	0.17	-0.3083391	0.0682813	8.96E-06
G	A	0.17	-0.3123908	0.0679583	6.26E-06
T	TA	0.17	-0.3233243	0.06856564	3.68E-06
C	T	0.17	-0.3145226	0.06847172	6.36E-06
G	A	0.17	-0.3102365	0.06867818	8.90E-06
T	C	0.17	-0.3299692	0.06922868	2.92E-06
G	T	0.18	-0.3138839	0.06898108	7.70E-06
G	A	0.07	0.5024374	0.1030968	1.78E-06
C	G	0.21	-0.2830983	0.06298134	9.82E-06
G	A	0.01	-1.199788	0.2480828	2.12E-06
C	T	0.01	-1.044009	0.2208095	3.47E-06
G	C	0.01	-0.9974935	0.2101208	3.18E-06
T	C	0.01	-0.9974935	0.2101208	3.18E-06
A	G	0.02	-0.9447317	0.205783	6.43E-06
T	A	0.02	-0.9447317	0.205783	6.43E-06
C	G	0.02	-0.9447317	0.205783	6.43E-06
A	G	0.02	-0.9447317	0.205783	6.43E-06
G	C	0.02	-0.9477577	0.2019395	4.07E-06
C	G	0.02	-0.9477577	0.2019395	4.07E-06
G	A	0.02	-0.9477577	0.2019395	4.07E-06
G	A	0.02	-0.9477577	0.2019395	4.07E-06
C	T	0.02	-0.8658603	0.1885525	6.40E-06
G	A	0.02	-0.9477577	0.2019395	4.07E-06
A	G	0.02	-0.9477577	0.2019395	4.07E-06
G	C	0.02	-0.9477577	0.2019395	4.07E-06
C	A	0.02	-0.9477577	0.2019395	4.07E-06
C	T	0.02	-0.9477577	0.2019395	4.07E-06
A	G	0.02	-0.9477577	0.2019395	4.07E-06
T	A	0.02	-0.9477577	0.2019395	4.07E-06
C	T	0.02	-0.9477577	0.2019395	4.07E-06
A	T	0.02	-0.9477577	0.2019395	4.07E-06
A	C	0.02	-0.9477577	0.2019395	4.07E-06
C	T	0.04	-0.618979	0.132414	4.42E-06
A	AACACACACACACAC	0.05	-0.5465194	0.1131972	2.20E-06
G	A	0.03	-0.7019738	0.1476101	3.06E-06
A	C	0.04	-0.6247152	0.1381101	8.67E-06
G	A	0.02	-1.08003	0.2316954	4.69E-06
C	T	0.02	-0.4438853	0.07252773	3.27E-09
T	G	0.11	-0.2649463	0.04480185	9.80E-09
G	A	0.04	-0.4438886	0.07285176	4.02E-09
G	A	0.04	-0.4357906	0.07329065	8.84E-09
T	G	0.01	-0.7605018	0.117685	5.27E-10

G	T	0.01	-0.7605018	0.117685	5.27E-10
GA	G	0.01	-0.7605018	0.117685	5.27E-10
T	C	0.01	-0.7605018	0.117685	5.27E-10
A	G	0.02	-0.6644835	0.1113941	7.99E-09
A	G	0.02	-0.7078474	0.1102948	6.76E-10
C	T	0.02	-0.6031679	0.1018835	9.48E-09
C	T	0.03	-0.4430058	0.07487099	9.65E-09
A	G	0.03	-0.2808359	0.04697456	6.94E-09
C	A	0.03	-0.2772669	0.04639256	7.01E-09
A	T	0.02	0.5833948	0.09133421	7.42E-10
G	A	0.02	0.5547047	0.08995825	2.53E-09
T	C	0.02	0.5547047	0.08995825	2.53E-09
C	T	0.05	-0.5268313	0.08621054	3.38E-09
G	A	0.05	-0.5046519	0.08535397	9.88E-09
C	T	0.01	-0.515735	0.08035494	6.20E-10
C	T	0.01	-0.5088275	0.08420687	4.94E-09
C	T	0.01	-0.4141769	0.06656438	2.12E-09
T	A	0.01	0.783797	0.1160258	8.89E-11
C	T	0.02	-0.5267492	0.08304781	1.18E-09
G	A	0.06	-0.4878831	0.1073605	7.99E-06
G	A	0.06	-0.4878831	0.1073605	7.99E-06
T	C	0.04	-0.6806064	0.1346623	7.73E-07
AATATAC	A	0.17	-0.3035499	0.06510045	4.72E-06
A	G	0.01	-1.169781	0.2481331	3.74E-06
C	T	0.02	-0.7636481	0.1649612	5.48E-06
G	C	0.03	-0.7402901	0.1557224	3.13E-06
C	T	0.06	-0.530479	0.1071883	1.27E-06
T	G	0.06	-0.5105509	0.1047804	1.81E-06
TA	T	0.19	-0.2875207	0.06187793	5.08E-06
G	A	0.02	-0.9964049	0.2156187	5.69E-06
C	T	0.02	-0.9348811	0.1918223	1.80E-06
T	C	0.1	-0.4054981	0.08823114	6.36E-06
A	C	0.03	-0.7276132	0.158418	6.44E-06
A	G	0.02	-0.8151627	0.1788932	7.56E-06
A	G	0.02	-0.8725113	0.1936272	9.44E-06
AACACACACAC	A	0.02	-0.8805495	0.1895414	5.10E-06
T	TA	0.03	-0.7485075	0.1649493	8.22E-06
G	A	0.03	-0.7513644	0.1627911	5.83E-06
C	T	0.02	-0.8196798	0.1695917	2.17E-06
C	T	0.01	-1.224595	0.2474459	1.27E-06
A	G	0.06	-0.4749167	0.1025252	5.41E-06
A	G	0.02	-0.8544734	0.1888521	8.71E-06
C	A	0.02	-0.8544734	0.1888521	8.71E-06
A	AACAC	0.05	0.6255068	0.117157	1.94E-07
C	G	0.04	-0.5829337	0.125963	5.52E-06
TACACACAC	T	0.02	-0.9626312	0.1881183	5.72E-07
T	A	0.24	0.2667775	0.05921546	9.48E-06
A	G	0.2	-0.2947772	0.06282056	4.13E-06
C	T	0.01	-1.34551	0.2593924	4.08E-07
C	T	0.02	-1.219037	0.2230442	1.03E-07

C	T	0.48	0.2400218	0.0532004	9.22E-06
T	C	0.01	-1.237351	0.2589352	2.79E-06
G	C	0.23	-0.280034	0.06098565	6.48E-06
A	G	0.23	-0.2760719	0.06110483	8.97E-06
C	G	0.21	0.2795859	0.06098481	6.69E-06
A	G	0.21	0.290921	0.06348085	6.74E-06
C	T	0.2	0.2985219	0.06444143	5.41E-06
T	C	0.17	-0.3130745	0.06728442	4.93E-06
A	G	0.01	-1.182388	0.2433445	1.93E-06
C	T	0.03	0.7935956	0.1682103	3.68E-06
T	C	0.01	-1.115402	0.2470138	9.06E-06
G	A	0.01	-1.115402	0.2470138	9.06E-06
G	C	0.01	-1.115402	0.2470138	9.06E-06
G	A	0.09	-0.4332032	0.09290156	4.71E-06
ATATAT	A	0.09	-0.4262759	0.09397224	8.28E-06
C	T	0.08	-0.4439527	0.0967867	6.62E-06
C	T	0.13	-0.3737614	0.07996083	4.48E-06
G	A	0.04	-0.7135817	0.1359073	2.99E-07
AGTGTGT	A	0.01	-1.115715	0.2310709	2.22E-06
A	C	0.08	-0.4227168	0.09104724	5.16E-06
C	T	0.01	-1.064294	0.2291498	5.12E-06
G	A	0.01	-1.213523	0.2424604	9.76E-07
C	T	0.26	0.2618528	0.05624993	4.88E-06
G	A	0.41	0.243886	0.04971113	1.55E-06
G	A	0.42	0.2513258	0.04933726	6.39E-07
CAG	C	0.01	-1.084684	0.2368877	6.86E-06
G	C	0.03	-0.7047705	0.1528008	5.91E-06
C	T	0.03	-0.7208577	0.1482044	1.89E-06
C	T	0.02	-0.8026799	0.1761808	7.59E-06
G	A	0.01	-1.134806	0.234165	2.05E-06
C	T	0.01	-0.8577739	0.1405295	3.66E-09
C	A	0.29	-0.2358667	0.03826643	2.61E-09
G	T	0.03	-0.5239986	0.08760976	7.61E-09
A	G	0.04	-0.5117149	0.08517917	6.61E-09
T	C	0.01	-0.9647092	0.1619688	8.06E-09
G	A	0.1	-0.3625522	0.06089372	8.20E-09
C	T	0.01	-1.226547	0.2015536	4.01E-09
G	A	0.02	-1.156951	0.1892865	3.47E-09
T	A	0.02	-1.156951	0.1892865	3.47E-09
C	T	0.02	-1.156951	0.1892865	3.47E-09
AT	A	0.02	-1.156951	0.1892865	3.47E-09
C	T	0.02	-1.156951	0.1892865	3.47E-09
A	G	0.02	-1.156951	0.1892865	3.47E-09
G	T	0.02	-1.156951	0.1892865	3.47E-09
C	T	0.02	-1.156951	0.1892865	3.47E-09
C	T	0.02	-1.156951	0.1892865	3.47E-09
TA	T	0.02	-1.156951	0.1892865	3.47E-09
C	T	0.02	-1.156951	0.1892865	3.47E-09
CGAGAT	C	0.09	-0.3171533	0.05320961	8.07E-09
T	C	0.04	-0.4909211	0.08087585	4.46E-09

A	G	0.2	-0.226791	0.0378147	6.59E-09
A	AACAC	0.05	0.5153287	0.08283037	2.14E-09
A	AACAC	0.06	0.395503	0.06670116	9.86E-09
A	G	0.01	-1.054972	0.1698321	2.01E-09
T	C	0.04	-0.661502	0.1051228	1.30E-09
A	G	0.02	-0.8472959	0.1430575	9.73E-09
T	A	0.01	-0.7428613	0.1235198	5.94E-09
G	A	0.3	-0.2536561	0.05565838	7.46E-06
G	GGAGA	0.01	-1.247503	0.2631647	3.29E-06
C	T	0.23	-0.2881685	0.06263837	6.16E-06
C	G	0.03	0.7453389	0.1543037	2.18E-06
T	A	0.02	-0.9746934	0.2134649	7.18E-06
C	T	0.12	0.3780136	0.08338758	8.30E-06
T	A	0.12	0.3805189	0.08346467	7.41E-06
C	T	0.16	0.3436214	0.0725078	3.30E-06
C	A	0.16	0.3305789	0.07268957	7.79E-06
C	T	0.16	0.3570619	0.07232902	1.33E-06
G	C	0.16	0.3389251	0.07173206	3.53E-06
T	C	0.15	0.335964	0.07461726	9.50E-06
A	G	0.16	0.3339463	0.07275785	6.46E-06
G	A	0.16	0.3339463	0.07275785	6.46E-06
T	C	0.16	0.3382609	0.07223018	4.26E-06
C	T	0.17	0.3301075	0.07108778	5.08E-06
T	G	0.16	0.326532	0.07173476	7.65E-06
G	A	0.15	0.3466424	0.07168353	2.12E-06
A	C	0.16	0.3518206	0.0713851	1.38E-06
G	A	0.15	0.3503758	0.07752433	8.82E-06
T	A	0.16	0.3273435	0.07113047	6.12E-06
G	A	0.16	0.3269566	0.07172283	7.42E-06
G	A	0.17	0.3310918	0.07164964	5.63E-06
T	C	0.16	0.3254036	0.07145331	7.57E-06
A	G	0.17	0.3434167	0.07115768	2.22E-06
A	C	0.15	0.3420251	0.07384704	5.37E-06
A	G	0.17	0.3367592	0.07109494	3.34E-06
G	A	0.17	0.3408451	0.07154985	2.95E-06
A	G	0.17	0.3367592	0.07109494	3.34E-06
TAAAG	T	0.17	0.3251991	0.0717294	8.29E-06
C	A	0.17	0.3367592	0.07109494	3.34E-06
CG	C	0.17	0.3247057	0.07108382	7.12E-06
C	T	0.17	0.3357159	0.070987	3.46E-06
G	A	0.17	0.3360445	0.07046155	2.88E-06
A	G	0.39	0.2556039	0.05597307	7.17E-06
G	A	0.23	0.2825007	0.06132747	6.00E-06
G	A	0.2	-0.3255792	0.06629034	1.49E-06
G	T	0.01	-1.104479	0.2453987	9.57E-06
C	T	0.01	-1.029035	0.2284823	9.45E-06
G	T	0.02	-0.9335303	0.2037009	6.67E-06
C	G	0.02	-1.034537	0.2061256	8.99E-07
AACAG	A	0.02	-1.034537	0.2061256	8.99E-07
T	C	0.02	-1.034537	0.2061256	8.99E-07

C	T	0.02	-1.034537	0.2061256	8.99E-07
G	A	0.02	-1.034537	0.2061256	8.99E-07
G	A	0.02	-1.034537	0.2061256	8.99E-07
T	A	0.02	-0.9748257	0.2021094	2.25E-06
A	AGAGT	0.02	-0.838422	0.1828617	6.60E-06
C	T	0.02	-0.838422	0.1828617	6.60E-06
G	GA	0.02	-0.8921449	0.1868802	2.82E-06
A	G	0.02	-0.8921449	0.1868802	2.82E-06
C	T	0.02	-0.8921449	0.1868802	2.82E-06
C	G	0.02	-0.8921449	0.1868802	2.82E-06
G	A	0.02	-0.8921449	0.1868802	2.82E-06
T	G	0.02	-0.8921449	0.1868802	2.82E-06
T	C	0.02	-0.8921449	0.1868802	2.82E-06
G	C	0.02	-0.8921449	0.1868802	2.82E-06
G	A	0.02	-0.8921449	0.1868802	2.82E-06
A	G	0.02	-0.8921449	0.1868802	2.82E-06
T	C	0.02	-0.8502383	0.1860895	7.09E-06
C	T	0.02	-1.00853	0.2168467	4.92E-06
A	G	0.02	-1.00853	0.2168467	4.92E-06
A	G	0.02	-1.00853	0.2168467	4.92E-06
A	G	0.02	-1.00853	0.2168467	4.92E-06
T	A	0.02	-1.041725	0.2221328	4.13E-06
A	G	0.02	-1.00853	0.2168467	4.92E-06
C	CCTCTCT	0.02	-1.00853	0.2168467	4.92E-06
T	C	0.02	-1.00853	0.2168467	4.92E-06
G	A	0.02	-1.05263	0.1904412	7.36E-08
G	A	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
T	A	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
AT	A	0.02	-0.9666342	0.2111977	6.85E-06
A	T	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
T	G	0.02	-1.016897	0.2151917	3.51E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
C	G	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
C	G	0.02	-0.9666342	0.2111977	6.85E-06
C	G	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
A	C	0.02	-0.9666342	0.2111977	6.85E-06
C	A	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06

A	T	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
G	C	0.02	-0.9666342	0.2111977	6.85E-06
AACTCT	A	0.02	-0.9666342	0.2111977	6.85E-06
G	GT	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
G	C	0.02	-0.9666342	0.2111977	6.85E-06
T	G	0.02	-0.9666342	0.2111977	6.85E-06
A	C	0.02	-1.050337	0.2158099	1.84E-06
C	A	0.02	-1.050337	0.2158099	1.84E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
A	T	0.02	-0.9666342	0.2111977	6.85E-06
C	G	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
T	A	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
C	G	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
G	T	0.02	-0.9666342	0.2111977	6.85E-06
G	C	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
A	C	0.02	-1.050337	0.2158099	1.84E-06
G	C	0.02	-1.050337	0.2158099	1.84E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9897898	0.2135432	5.28E-06
T	G	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
A	C	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
A	G	0.02	-0.9666342	0.2111977	6.85E-06
G	T	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06
G	C	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
CA	C	0.02	-0.9666342	0.2111977	6.85E-06
A	T	0.02	-0.9666342	0.2111977	6.85E-06
C	T	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.9666342	0.2111977	6.85E-06

T	C	0.02	-0.9666342	0.2111977	6.85E-06
G	A	0.02	-0.9666342	0.2111977	6.85E-06
T	C	0.02	-0.924382	0.205411	9.60E-06
A	G	0.02	-0.9418848	0.207719	8.26E-06
T	C	0.02	-0.9677327	0.2078007	4.79E-06
CTGTGTG	C	0.02	-0.9980967	0.2101532	3.15E-06
C	CTTTTG	0.42	-0.2838522	0.05401692	2.88E-07
C	T	0.03	-0.7847263	0.1526886	5.05E-07
T	C	0.02	0.845272	0.1734085	1.77E-06
G	A	0.09	-0.4270135	0.0926298	5.91E-06
C	CAA	0.3	-0.2628206	0.0562724	4.51E-06
TTTTG	T	0.24	-0.2993438	0.06266977	2.79E-06
G	T	0.2	0.2979971	0.06524539	7.14E-06
T	C	0.15	0.3128124	0.06840872	6.98E-06
T	G	0.2	0.3049391	0.06483116	3.88E-06
T	C	0.27	0.2763732	0.06109398	8.66E-06
G	A	0.27	0.2794063	0.06135516	7.58E-06
C	A	0.29	0.2742895	0.06048239	8.24E-06
T	C	0.3	0.2739873	0.0600766	7.36E-06
T	C	0.29	0.2717714	0.06027003	9.23E-06
A	C	0.3	0.2725539	0.05987745	7.65E-06
A	G	0.29	0.289789	0.06046114	2.58E-06
T	C	0.29	0.2732521	0.0605013	8.94E-06
A	C	0.29	0.2732521	0.0605013	8.94E-06
G	C	0.3	0.2728435	0.06032875	8.70E-06
T	G	0.3	0.2666299	0.05901072	8.86E-06
A	T	0.29	0.2725094	0.0602829	8.78E-06
G	A	0.3	0.2796881	0.05959012	4.06E-06
G	C	0.29	0.2852804	0.0612463	4.77E-06
T	G	0.27	0.2747928	0.06110554	9.73E-06
A	G	0.27	0.2761334	0.06111477	8.87E-06
C	T	0.17	0.3286931	0.07269262	8.73E-06
G	A	0.18	0.3375527	0.07254156	4.87E-06
C	T	0.18	0.3319044	0.07130726	4.84E-06
C	G	0.18	0.3248917	0.07127903	7.44E-06
G	A	0.18	0.3286402	0.07123799	5.82E-06
C	T	0.18	0.3366549	0.07100007	3.27E-06
G	A	0.18	0.3212338	0.07151884	9.97E-06
G	T	0.18	0.331563	0.07164245	5.45E-06
A	C	0.18	0.3267309	0.07185322	7.81E-06
C	A	0.18	0.3279424	0.07098117	5.65E-06
T	C	0.18	0.329301	0.07096059	5.15E-06
A	G	0.18	0.3245205	0.07152292	8.16E-06
A	T	0.18	0.331563	0.07164245	5.45E-06
T	A	0.18	0.3321449	0.07087158	4.19E-06
G	T	0.18	0.3252976	0.07085362	6.43E-06
C	T	0.18	0.3275106	0.07058858	5.18E-06
T	G	0.18	0.3408944	0.07041728	2.07E-06
G	A	0.18	0.3408944	0.07041728	2.07E-06
T	C	0.18	0.3408944	0.07041728	2.07E-06

T	C	0.18	0.3408944	0.07041728	2.07E-06
A	T	0.18	0.3182356	0.07084314	9.94E-06
A	G	0.18	0.3258629	0.07141119	7.27E-06
T	C	0.19	0.3380062	0.06976139	2.03E-06
T	C	0.18	0.3394205	0.07022306	2.14E-06
G	A	0.18	0.3394205	0.07022306	2.14E-06
C	A	0.18	0.3209407	0.07066607	8.00E-06
A	G	0.19	0.3308888	0.07020709	3.72E-06
C	T	0.18	0.3346241	0.07040579	3.10E-06
G	A	0.18	0.3167521	0.07012467	8.92E-06
A	G	0.19	0.3284243	0.0696924	3.73E-06
T	C	0.18	0.3252483	0.07014621	5.25E-06
C	T	0.28	0.2738903	0.06089152	9.69E-06
G	A	0.18	0.3458672	0.07020037	1.39E-06
T	G	0.19	0.3366063	0.06915699	1.83E-06
G	GT	0.18	0.3343849	0.06997978	2.76E-06
G	C	0.19	0.3380062	0.06976139	2.03E-06
G	A	0.18	0.3184094	0.0701615	8.12E-06
T	TG	0.18	0.3257408	0.06999711	4.86E-06
C	T	0.18	0.3286812	0.06987198	3.87E-06
C	A	0.19	0.3316336	0.06918674	2.58E-06
A	G	0.19	0.3294726	0.0692217	3.01E-06
T	C	0.19	0.3352704	0.06917937	2.02E-06
C	T	0.19	0.3366063	0.06915699	1.83E-06
T	C	0.18	0.3239729	0.06952465	4.73E-06
G	A	0.19	0.3366063	0.06915699	1.83E-06
A	G	0.18	0.3239729	0.06952465	4.73E-06
A	G	0.19	0.3366063	0.06915699	1.83E-06
A	G	0.19	0.3188638	0.0676023	3.66E-06
G	A	0.18	0.3149503	0.06981529	9.15E-06
T	C	0.18	0.322916	0.06964038	5.24E-06
A	T	0.18	0.3211746	0.0697236	6.01E-06
T	C	0.18	0.3239729	0.06952465	4.73E-06
G	C	0.04	-0.7073778	0.1478246	2.68E-06
A	G	0.04	-0.6861062	0.1409544	1.83E-06
A	T	0.15	0.337425	0.07352096	6.47E-06
C	T	0.14	0.3612572	0.07414254	1.79E-06
G	T	0.14	0.3497415	0.07409926	3.61E-06
GT	G	0.14	0.3497415	0.07409926	3.61E-06
A	G	0.12	0.3962722	0.07748182	5.70E-07
A	G	0.1	0.3959442	0.08557707	5.48E-06
C	A	0.13	0.3741813	0.07514693	1.09E-06
C	G	0.12	0.3712228	0.0788926	3.85E-06
ATC	A	0.03	0.7493031	0.1521529	1.40E-06
TTGTGTG	T	0.02	-0.8258791	0.1736715	3.07E-06
G	A	0.4	-0.2669377	0.05437771	1.51E-06
A	T	0.41	-0.2561139	0.05419473	3.51E-06
C	T	0.41	-0.2683222	0.05540025	2.05E-06
C	G	0.4	-0.2905834	0.05560521	3.32E-07
T	G	0.43	-0.2705045	0.05506422	1.48E-06

C	CA	0.42	-0.2697387	0.05541375	1.83E-06
C	T	0.41	-0.2698829	0.05576904	2.09E-06
G	A	0.14	0.3322164	0.07309693	7.89E-06
G	A	0.14	0.3312588	0.07310326	8.37E-06
AAAAT	A	0.02	-1.10232	0.2237971	1.40E-06
G	A	0.02	-1.018204	0.1820823	5.29E-08
A	AACACACAC	0.05	-0.5752488	0.120596	2.87E-06
G	A	0.04	-0.6364104	0.1363025	4.54E-06
G	A	0.03	0.7036255	0.1442662	1.75E-06
G	A	0.08	0.4862658	0.09953214	1.68E-06
G	A	0.08	0.4676734	0.1021839	6.85E-06
A	G	0.04	-0.6228427	0.136243	7.01E-06
A	ATG	0.07	-0.5012391	0.1032695	1.95E-06
G	A	0.06	0.502904	0.11044	7.59E-06
A	G	0.41	0.2578845	0.05442752	3.32E-06
A	G	0.41	0.2577121	0.05442235	3.36E-06
TAAG	T	0.4	0.2536174	0.05434169	4.58E-06
G	A	0.41	0.2559982	0.05409807	3.41E-06
C	CCTCTTCTT	0.04	-0.6304669	0.1300839	2.02E-06
C	G	0.02	-0.5430517	0.09004015	5.23E-09
AACAG	A	0.02	-0.5430517	0.09004015	5.23E-09
T	C	0.02	-0.5430517	0.09004015	5.23E-09
C	T	0.02	-0.5430517	0.09004015	5.23E-09
G	A	0.02	-0.5430517	0.09004015	5.23E-09
G	A	0.02	-0.5430517	0.09004015	5.23E-09
T	A	0.02	-0.5422114	0.08821004	2.79E-09
C	G	0.02	-0.7733185	0.1280294	5.32E-09
AACAG	A	0.02	-0.7733185	0.1280294	5.32E-09
T	C	0.02	-0.7733185	0.1280294	5.32E-09
C	T	0.02	-0.7733185	0.1280294	5.32E-09
G	A	0.02	-0.7733185	0.1280294	5.32E-09
G	A	0.02	-0.7733185	0.1280294	5.32E-09
C	T	0.02	-0.6798849	0.111891	4.38E-09
G	A	0.02	-0.6798849	0.111891	4.38E-09
T	C	0.02	-0.6684673	0.1113067	6.40E-09
C	G	0.03	0.5104977	0.08632736	9.92E-09
G	A	0.01	-0.8902082	0.1450376	3.20E-09
A	T	0.02	0.70393	0.1093316	5.58E-10
G	A	0.02	0.6512608	0.1077523	4.93E-09
T	C	0.02	0.6512608	0.1077523	4.93E-09
AT	A	0.02	0.6328683	0.1061336	7.64E-09
T	TA	0.28	0.1457928	0.02420908	5.52E-09
A	G	0.45	0.1402115	0.02272093	2.43E-09
C	T	0.44	0.1376062	0.02301914	6.96E-09
C	T	0.43	0.1363929	0.02293271	8.19E-09
G	A	0.27	0.1324314	0.0223707	9.55E-09
C	T	0.29	0.1314423	0.02186384	5.83E-09
C	CA	0.3	-0.1337984	0.02209227	4.58E-09
T	C	0.23	-0.1457514	0.02321289	1.35E-09
T	C	0.23	-0.1443711	0.0230086	1.38E-09

A	G	0.24	-0.1335413	0.02233417	6.95E-09
T	C	0.25	-0.1342673	0.021697	2.23E-09
C	T	0.23	-0.1472626	0.023218	9.47E-10
A	G	0.23	-0.1463577	0.02298499	8.24E-10
C	G	0.23	-0.1405737	0.02288332	2.86E-09
GGTGTGTGTGTGT	G	0.01	-1.178783	0.1938274	3.97E-09
C	T	0.04	0.4263128	0.0715992	8.65E-09
T	G	0.05	0.2780061	0.04514436	2.63E-09
C	T	0.05	0.2780061	0.04514436	2.63E-09
A	G	0.02	0.5236626	0.07539358	2.95E-11
G	A	0.02	-0.4080106	0.06850776	8.56E-09
TCA	T	0.14	0.3278986	0.05443535	5.44E-09
C	T	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
T	A	0.01	-0.4453992	0.07277458	4.03E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
C	CCTCTCT	0.02	-0.4316055	0.07061636	4.21E-09
T	C	0.02	-0.4316055	0.07061636	4.21E-09
T	A	0.02	-0.4316055	0.07061636	4.21E-09
G	A	0.02	-0.414182	0.06110949	1.09E-10
G	A	0.02	-0.4316055	0.07061636	4.21E-09
C	T	0.02	-0.4316055	0.07061636	4.21E-09
C	A	0.02	-0.4316055	0.07061636	4.21E-09
CAA	C	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
G	A	0.02	-0.4316055	0.07061636	4.21E-09
C	A	0.02	-0.4316055	0.07061636	4.21E-09
G	A	0.02	-0.4316055	0.07061636	4.21E-09
T	C	0.02	-0.4316055	0.07061636	4.21E-09
G	C	0.02	-0.4316055	0.07061636	4.21E-09
TG	T	0.02	-0.4316055	0.07061636	4.21E-09
G	A	0.02	-0.4316055	0.07061636	4.21E-09
T	TAAAACA	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
C	T	0.02	-0.4316055	0.07061636	4.21E-09
T	TAA	0.02	-0.4316055	0.07061636	4.21E-09
C	T	0.02	-0.4316055	0.07061636	4.21E-09
A	G	0.02	-0.4316055	0.07061636	4.21E-09
T	C	0.02	-0.4316055	0.07061636	4.21E-09
G	T	0.02	-0.4316055	0.07061636	4.21E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
T	A	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
AT	A	0.02	-0.3957996	0.06607492	8.01E-09

A	T	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
T	G	0.02	-0.4130372	0.06755047	4.15E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
C	G	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
C	G	0.02	-0.3957996	0.06607492	8.01E-09
C	G	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
A	C	0.02	-0.3957996	0.06607492	8.01E-09
C	A	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
A	T	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
G	C	0.02	-0.3957996	0.06607492	8.01E-09
AACTCT	A	0.02	-0.3957996	0.06607492	8.01E-09
G	GT	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
G	C	0.02	-0.3957996	0.06607492	8.01E-09
T	G	0.02	-0.3957996	0.06607492	8.01E-09
A	C	0.02	-0.4275788	0.06774995	1.44E-09
C	A	0.02	-0.4275788	0.06774995	1.44E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
A	T	0.02	-0.3957996	0.06607492	8.01E-09
C	G	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
T	A	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
C	G	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
G	T	0.02	-0.3957996	0.06607492	8.01E-09
G	C	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
A	C	0.02	-0.4275788	0.06774995	1.44E-09
G	C	0.02	-0.4275788	0.06774995	1.44E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
T	G	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09

G	A	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
A	C	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
A	G	0.02	-0.3957996	0.06607492	8.01E-09
G	T	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
G	C	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
CA	C	0.02	-0.3957996	0.06607492	8.01E-09
A	T	0.02	-0.3957996	0.06607492	8.01E-09
C	T	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
T	C	0.02	-0.3957996	0.06607492	8.01E-09
G	A	0.02	-0.3957996	0.06607492	8.01E-09
A	C	0.02	-0.4005587	0.06697701	8.42E-09
T	A	0.01	0.7036532	0.113642	2.17E-09
A	G	0.33	-0.2659747	0.04480992	8.75E-09
C	T	0.01	-1.211032	0.1912282	1.20E-09
C	T	0.1	-0.3697425	0.06114118	5.59E-09
G	A	0.01	1.065295	0.1794516	9.04E-09
A	C	0.04	-0.4222867	0.07131091	9.40E-09
G	C	0.04	-0.4222867	0.07131091	9.40E-09
G	A	0.02	0.569522	0.09529783	7.49E-09
T	C	0.02	0.569522	0.09529783	7.49E-09
GGTGTGTGTGTGT	G	0.01	-1.099336	0.1646045	1.51E-10
A	T	0.01	1.041381	0.1736657	6.66E-09
T	C	0.02	-0.8651649	0.1795936	2.31E-06
C	G	0.04	-0.6385181	0.1324319	2.27E-06
A	G	0.04	-0.7175452	0.1372423	3.28E-07
A	C	0.01	-1.233934	0.252312	1.65E-06
A	C	0.01	-1.233934	0.252312	1.65E-06
GCTCA	G	0.01	-1.233934	0.252312	1.65E-06
C	T	0.01	-1.220193	0.2629848	5.18E-06
G	A	0.01	-1.288121	0.25297	6.36E-07
C	G	0.01	-1.288121	0.25297	6.36E-07
A	C	0.01	-1.146547	0.2449705	4.32E-06
G	A	0.01	-1.288121	0.25297	6.36E-07
T	C	0.02	-0.995723	0.1924819	4.30E-07
C	G	0.04	-0.7231606	0.1412654	5.58E-07
T	C	0.04	-0.7231606	0.1412654	5.58E-07
A	G	0.03	-0.742519	0.1582149	4.07E-06
G	A	0.01	-1.113223	0.2339712	3.04E-06
A	T	0.01	-1.191769	0.2625065	8.07E-06
C	T	0.01	-1.191709	0.2624923	8.07E-06
GC	G	0.01	-1.104348	0.2387565	5.52E-06
C	T	0.01	-1.104348	0.2387565	5.52E-06
CTGCTGTGCTCCCTT	C	0.01	-1.104348	0.2387565	5.52E-06

G	T	0.01	-1.104348	0.2387565	5.52E-06
A	C	0.08	-0.4543973	0.09877046	6.17E-06
G	A	0.01	-1.047857	0.2213304	3.38E-06
T	C	0.01	-1.136938	0.2218964	5.46E-07
C	T	0.04	-0.6088441	0.1301034	4.33E-06
T	A	0.04	-0.7266715	0.1361271	1.91E-07
C	A	0.02	-0.8706328	0.1829638	3.03E-06
G	A	0.08	-0.4260417	0.09278314	6.41E-06
GCA	G	0.35	0.2473556	0.05463321	8.52E-06
A	AAAACAAAC	0.01	-1.269624	0.2641671	2.43E-06
T	C	0.25	0.2688108	0.05985132	9.99E-06
A	G	0.04	-0.5838771	0.1299959	9.98E-06
A	G	0.27	0.2766267	0.0602807	6.50E-06
GT	G	0.02	-0.905186	0.1990494	7.80E-06
T	C	0.02	-0.9393766	0.1831431	5.31E-07
C	T	0.02	-1.061917	0.2134159	1.10E-06
C	T	0.15	-0.3699942	0.07519362	1.43E-06
CA	C	0.03	-0.7350438	0.1434727	5.47E-07
T	TGTGTG	0.01	-1.240753	0.2574573	2.29E-06
C	T	0.01	-1.254153	0.2679585	4.32E-06
C	T	0.01	-1.254153	0.2679585	4.32E-06
A	G	0.02	-0.8750228	0.192123	7.57E-06
C	T	0.02	-0.8750228	0.192123	7.57E-06
C	T	0.16	-0.3512815	0.07369019	2.91E-06
C	A	0.02	-0.8969505	0.1968357	7.49E-06
A	G	0.02	-0.8570068	0.1755195	1.71E-06
C	T	0.02	-0.9168035	0.2003853	6.90E-06
C	T	0.48	0.2188896	0.04694497	4.67E-06
A	T	0.02	-0.881141	0.1823352	2.16E-06
A	T	0.02	-0.7787244	0.1691118	6.05E-06
G	A	0.02	-0.7787244	0.1691118	6.05E-06
G	A	0.44	-0.252706	0.05551945	7.66E-06
T	A	0.44	-0.2535573	0.05498327	5.88E-06
G	A	0.44	-0.2492469	0.05531535	9.37E-06
C	G	0.44	-0.2528448	0.05542659	7.33E-06
C	T	0.44	-0.2519059	0.05547914	8.05E-06
A	G	0.44	-0.252706	0.05551945	7.66E-06
G	A	0.04	-0.6038498	0.1305636	5.53E-06
T	A	0.34	0.244614	0.05379161	7.81E-06
T	C	0.34	0.2453325	0.05348546	6.56E-06
G	A	0.34	0.2440086	0.05372629	8.01E-06
A	C	0.34	0.244614	0.05379161	7.81E-06
G	A	0.34	0.244614	0.05379161	7.81E-06
A	G	0.34	0.2438441	0.05375577	8.20E-06
C	A	0.34	0.244614	0.05379161	7.81E-06
T	C	0.34	0.244614	0.05379161	7.81E-06
A	G	0.34	0.2453721	0.05376009	7.25E-06
C	T	0.34	0.244614	0.05379161	7.81E-06
G	A	0.01	-1.179488	0.2533379	4.82E-06
T	C	0.01	-1.331779	0.2403775	6.91E-08

TTA	T	0.01	-1.331779	0.2403775	6.91E-08
C	T	0.01	-1.277025	0.2324188	8.72E-08
C	G	0.01	-1.277025	0.2324188	8.72E-08
A	G	0.01	-1.277025	0.2324188	8.72E-08
G	A	0.02	-0.7682299	0.168989	7.85E-06
C	T	0.09	-0.4624477	0.0895044	4.43E-07
C	T	0.09	-0.4624477	0.0895044	4.43E-07
TTTATATATTATTTTA/	T	0.01	-1.180949	0.2574823	6.57E-06
A	AGGAAGGGAAG	0.04	-0.6124254	0.1354369	8.74E-06
A	G	0.06	-0.5259647	0.1129717	4.82E-06
C	G	0.02	-0.9963875	0.2165031	6.13E-06
G	T	0.02	-0.8180178	0.1726569	3.33E-06
T	C	0.03	-0.7779281	0.1696085	6.56E-06
T	C	0.08	-0.4515345	0.0982655	6.32E-06
T	TC	0.08	-0.4371209	0.09731216	9.96E-06
G	A	0.04	-0.6023658	0.1214938	1.20E-06
A	G	0.04	-0.6023658	0.1214938	1.20E-06
G	A	0.03	-0.6477255	0.1416357	6.97E-06
A	C	0.03	-0.6433286	0.1400077	6.33E-06
C	T	0.03	-0.6949462	0.1442303	2.30E-06
C	T	0.03	-0.6433286	0.1400077	6.33E-06
C	G	0.03	-0.6645111	0.1404327	3.42E-06
A	G	0.05	-0.526522	0.114907	6.70E-06
C	T	0.09	-0.3988156	0.08625071	5.56E-06
C	T	0.02	-0.8654773	0.1897459	7.34E-06
A	G	0.01	-1.26752	0.2391503	2.31E-07
G	T	0.27	-0.2770142	0.06048562	6.76E-06
T	C	0.02	-0.8272992	0.1724337	2.53E-06
A	G	0.19	-0.3070428	0.06537311	4.01E-06
C	T	0.04	-0.6092542	0.1320634	5.83E-06
G	A	0.05	-0.6186339	0.1276365	2.02E-06
C	T	0.05	-0.6186339	0.1276365	2.02E-06
C	T	0.05	-0.6186339	0.1276365	2.02E-06
T	C	0.05	-0.6186339	0.1276365	2.02E-06
G	A	0.05	-0.6186339	0.1276365	2.02E-06
A	G	0.05	-0.6186339	0.1276365	2.02E-06
C	T	0.05	-0.6135606	0.1317583	4.80E-06
G	A	0.05	-0.6209059	0.1286149	2.21E-06
G	GC	0.05	-0.6209059	0.1286149	2.21E-06
GACAGGT	G	0.05	-0.6202118	0.1275847	1.89E-06
C	T	0.05	-0.6202118	0.1275847	1.89E-06
G	GTC	0.01	-1.021168	0.2197034	4.99E-06
G	A	0.01	-1.025358	0.2269866	8.91E-06
T	TC	0.01	-1.327853	0.2051858	4.57E-10
A	G	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
A	T	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
C	T	0.01	-1.327853	0.2051858	4.57E-10

C	T	0.01	-1.327853	0.2051858	4.57E-10
T	C	0.01	-1.327853	0.2051858	4.57E-10
C	G	0.01	-1.327853	0.2051858	4.57E-10
G	C	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
T	C	0.01	-1.327853	0.2051858	4.57E-10
AC	A	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
A	G	0.01	-1.327853	0.2051858	4.57E-10
C	T	0.01	-1.327853	0.2051858	4.57E-10
C	T	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.327853	0.2051858	4.57E-10
G	A	0.01	-1.283791	0.2135927	5.85E-09
GTGAGAATGAGTTAAC	T	0.01	-1.221509	0.2325567	2.92E-07
G	A	0.01	-1.327853	0.2051858	4.57E-10
G	T	0.01	-1.327853	0.2051858	4.57E-10
A	T	0.01	-1.372991	0.2292069	6.53E-09
G	A	0.01	-1.327853	0.2051858	4.57E-10
A	G	0.01	-1.327853	0.2051858	4.57E-10
T	C	0.01	-1.223668	0.2008931	3.78E-09
A	G	0.01	-1.223668	0.2008931	3.78E-09
T	C	0.01	-1.223668	0.2008931	3.78E-09
C	G	0.01	-1.223668	0.2008931	3.78E-09
C	T	0.01	-1.223668	0.2008931	3.78E-09
C	T	0.01	-1.236895	0.2184858	3.71E-08
AG	A	0.01	-1.223668	0.2008931	3.78E-09
T	A	0.01	-1.223668	0.2008931	3.78E-09
A	G	0.01	-1.223668	0.2008931	3.78E-09
G	A	0.02	-0.8699355	0.1806582	2.33E-06
T	TG	0.01	-1.277082	0.2161903	1.02E-08
A	G	0.02	-1.310302	0.1895749	3.58E-11
A	AT	0.01	-1.223668	0.2008931	3.78E-09
T	C	0.01	-1.05082	0.2295849	6.85E-06
C	G	0.01	-1.05082	0.2295849	6.85E-06
A	G	0.01	-1.05082	0.2295849	6.85E-06
G	A	0.01	-1.05082	0.2295849	6.85E-06
A	G	0.01	-1.05082	0.2295849	6.85E-06
A	G	0.01	-1.05082	0.2295849	6.85E-06
C	A	0.01	-1.05082	0.2295849	6.85E-06
C	A	0.01	-1.174584	0.2434774	2.24E-06
TAC	T	0.15	0.3843941	0.07808292	1.42E-06
G	C	0.01	-1.147158	0.2416787	3.20E-06
A	T	0.02	-1.060872	0.2260935	4.09E-06
G	T	0.12	-0.3532024	0.07800456	8.50E-06
C	T	0.3	0.2628287	0.05612852	4.27E-06
AC	A	0.3	0.2667334	0.05608052	3.06E-06
T	A	0.29	0.2564279	0.05616555	7.21E-06
C	T	0.29	0.2579265	0.05658739	7.45E-06
A	G	0.29	0.255986	0.05665582	8.88E-06
G	C	0.29	0.2597138	0.05710499	7.79E-06

C	T	0.29	0.2579071	0.05663226	7.58E-06
A	C	0.3	0.2610075	0.05660526	5.89E-06
C	T	0.29	0.2558965	0.05646419	8.36E-06
T	C	0.3	0.2545445	0.05655634	9.58E-06
A	G	0.3	0.2610075	0.05660526	5.89E-06
G	A	0.31	0.2704044	0.05685435	3.06E-06
TACATAC	T	0.26	0.2982185	0.06223548	2.60E-06
A	G	0.02	-0.9640183	0.2083846	5.50E-06
G	A	0.02	-0.9987599	0.2014298	1.20E-06
A	G	0.02	-0.9987599	0.2014298	1.20E-06
G	A	0.21	0.2963058	0.06402883	5.47E-06
C	G	0.21	0.2919837	0.0640273	7.38E-06
G	GA	0.17	0.3862325	0.07108749	1.19E-07
T	A	0.21	0.2919837	0.0640273	7.38E-06
T	G	0.21	0.2919837	0.0640273	7.38E-06
A	C	0.21	0.2919837	0.0640273	7.38E-06
G	A	0.21	0.2908892	0.06400479	7.90E-06
G	A	0.21	0.2919837	0.0640273	7.38E-06
T	G	0.21	0.2908457	0.06405228	8.04E-06
G	C	0.21	0.2919837	0.0640273	7.38E-06
G	A	0.19	0.2997047	0.06586792	7.72E-06
C	T	0.2	0.2972149	0.06481965	6.60E-06
A	G	0.2	0.2987356	0.06532255	6.97E-06
G	A	0.2	0.2918952	0.06487875	9.65E-06
C	T	0.01	-1.097211	0.2436501	9.48E-06
G	A	0.02	-0.8518909	0.1854029	6.33E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06
G	T	0.02	-0.8787163	0.1788143	1.48E-06
G	A	0.02	-0.8787163	0.1788143	1.48E-06
C	T	0.02	-0.8787163	0.1788143	1.48E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
A	T	0.02	-0.8784382	0.1842988	2.92E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8787163	0.1788143	1.48E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06
C	A	0.02	-0.8213027	0.181038	8.19E-06
T	C	0.02	-0.8787163	0.1788143	1.48E-06
G	A	0.02	-0.8784382	0.1842988	2.92E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06

C	T	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8787163	0.1788143	1.48E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8787163	0.1788143	1.48E-06
G	A	0.02	-0.9168061	0.1856701	1.32E-06
A	C	0.02	-0.8784382	0.1842988	2.92E-06
G	C	0.02	-0.9474325	0.1900829	1.06E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8213027	0.181038	8.19E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.9071604	0.1865631	1.88E-06
C	T	0.02	-0.9415331	0.1873629	8.74E-07
G	A	0.02	-0.8784382	0.1842988	2.92E-06
G	A	0.02	-0.8784382	0.1842988	2.92E-06
C	A	0.02	-0.8784382	0.1842988	2.92E-06
G	C	0.02	-0.8784382	0.1842988	2.92E-06
A	T	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
G	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
T	A	0.02	-0.8649892	0.1807716	2.68E-06
A	G	0.02	-0.8649892	0.1807716	2.68E-06
G	A	0.02	-0.8784382	0.1842988	2.92E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
G	A	0.02	-0.8784382	0.1842988	2.92E-06
G	A	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8587508	0.1885247	7.55E-06
T	C	0.02	-0.8784382	0.1842988	2.92E-06
C	A	0.02	-0.8649892	0.1807716	2.68E-06
T	A	0.02	-0.8784382	0.1842988	2.92E-06
C	A	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
A	G	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
T	A	0.02	-0.9172974	0.18776	1.69E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
C	T	0.02	-0.8784382	0.1842988	2.92E-06
G	C	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8784382	0.1842988	2.92E-06
C	A	0.02	-0.8784382	0.1842988	2.92E-06
C	A	0.02	-0.8706044	0.1876431	5.18E-06
G	C	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.02	-0.8649892	0.1807716	2.68E-06
T	G	0.02	-0.8649892	0.1807716	2.68E-06

G	A	0.02	-0.8784382	0.1842988	2.92E-06
C	G	0.02	-0.8784382	0.1842988	2.92E-06
T	C	0.03	-0.77543	0.1694669	6.89E-06
C	T	0.03	-0.77543	0.1694669	6.89E-06
C	T	0.03	-0.8237971	0.172132	2.67E-06
T	G	0.02	-0.826513	0.1794424	6.02E-06
A	G	0.03	-0.8237971	0.172132	2.67E-06
G	A	0.02	-0.8523892	0.1837465	5.20E-06
A	G	0.02	-0.8523892	0.1837465	5.20E-06
C	T	0.02	-0.8523892	0.1837465	5.20E-06
T	C	0.02	-0.8523892	0.1837465	5.20E-06
T	A	0.02	-0.8523892	0.1837465	5.20E-06
G	C	0.02	-0.8523892	0.1837465	5.20E-06
C	T	0.02	-0.8523892	0.1837465	5.20E-06
G	A	0.02	-0.8523892	0.1837465	5.20E-06
C	A	0.02	-0.8523892	0.1837465	5.20E-06
C	T	0.4	-0.2516343	0.05415913	5.03E-06
T	G	0.06	-0.5542614	0.1096244	7.55E-07
A	G	0.07	-0.5311322	0.1083816	1.57E-06
T	C	0.45	-0.240708	0.05150725	4.46E-06
G	A	0.02	-0.8366491	0.1822415	6.44E-06
T	A	0.01	-1.060302	0.2315557	6.79E-06
C	G	0.05	-0.5958821	0.1253699	3.11E-06
A	G	0.05	-0.5958821	0.1253699	3.11E-06
T	G	0.15	0.3406431	0.0740941	6.26E-06
T	C	0.01	-1.129952	0.2322741	1.86E-06
G	A	0.01	-1.171362	0.2460501	3.00E-06
G	GCACACACACA	0.02	-0.8393762	0.1719695	1.72E-06
G	A	0.02	-0.9491126	0.2097908	8.65E-06
G	A	0.12	-0.3845243	0.07940426	2.06E-06
T	C	0.12	-0.387938	0.08125478	2.82E-06
G	A	0.12	-0.387938	0.08125478	2.82E-06
A	G	0.12	-0.387938	0.08125478	2.82E-06
G	T	0.12	-0.387938	0.08125478	2.82E-06
G	C	0.12	-0.3798709	0.08055661	3.68E-06
G	A	0.12	-0.3798709	0.08055661	3.68E-06
T	C	0.12	-0.3709181	0.08124242	7.21E-06
C	T	0.12	-0.3709181	0.08124242	7.21E-06
C	T	0.12	-0.3709181	0.08124242	7.21E-06
G	A	0.12	-0.3726139	0.07941578	4.10E-06
C	CAG	0.02	-0.9753276	0.2006753	1.90E-06
A	G	0.01	-1.115789	0.244317	7.16E-06
G	C	0.01	-1.242745	0.2672959	4.96E-06
ATGTGTGTGTG	A	0.01	-1.164282	0.2150328	1.31E-07
C	T	0.16	0.3016946	0.06694289	9.33E-06
C	T	0.09	-0.4298224	0.09457306	7.90E-06
CCT	C	0.25	-0.2754525	0.0606302	7.96E-06
C	T	0.01	-1.058978	0.1474437	7.76E-12
T	G	0.01	-1.058978	0.1474437	7.76E-12
T	TC	0.02	-0.9033365	0.1273937	1.34E-11

A	G	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
A	T	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
C	T	0.02	-0.9033365	0.1273937	1.34E-11
C	T	0.02	-0.9033365	0.1273937	1.34E-11
T	C	0.02	-0.9033365	0.1273937	1.34E-11
C	G	0.02	-0.9033365	0.1273937	1.34E-11
G	C	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
T	C	0.02	-0.9033365	0.1273937	1.34E-11
AC	A	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
A	G	0.02	-0.9033365	0.1273937	1.34E-11
C	T	0.02	-0.9033365	0.1273937	1.34E-11
C	T	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.02	-0.9033365	0.1273937	1.34E-11
G	A	0.01	-0.8885665	0.1328192	1.40E-10
G	A	0.02	-0.9033365	0.1273937	1.34E-11
G	T	0.02	-0.9033365	0.1273937	1.34E-11
A	T	0.01	-0.8779804	0.1442361	4.05E-09
G	A	0.02	-0.9033365	0.1273937	1.34E-11
A	G	0.02	-0.9033365	0.1273937	1.34E-11
T	C	0.02	-0.8454063	0.1248957	8.87E-11
A	G	0.02	-0.8454063	0.1248957	8.87E-11
T	C	0.02	-0.8454063	0.1248957	8.87E-11
C	G	0.02	-0.8454063	0.1248957	8.87E-11
C	T	0.02	-0.8454063	0.1248957	8.87E-11
C	T	0.02	-0.8530517	0.1353167	1.23E-09
AG	A	0.02	-0.8454063	0.1248957	8.87E-11
T	A	0.02	-0.8454063	0.1248957	8.87E-11
A	G	0.02	-0.8454063	0.1248957	8.87E-11
T	TG	0.01	-0.8148475	0.1363911	7.43E-09
A	G	0.02	-0.9073472	0.1175401	2.90E-13
A	AT	0.02	-0.8454063	0.1248957	8.87E-11
A	G	0.02	-0.7871089	0.12053	4.16E-10
C	T	0.01	-0.9506084	0.1410208	9.73E-11
T	G	0.01	-0.9506084	0.1410208	9.73E-11
T	TC	0.01	-0.779503	0.1221397	7.57E-10
A	G	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
A	T	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
C	T	0.01	-0.779503	0.1221397	7.57E-10
C	T	0.01	-0.779503	0.1221397	7.57E-10
T	C	0.01	-0.779503	0.1221397	7.57E-10
C	G	0.01	-0.779503	0.1221397	7.57E-10
G	C	0.01	-0.779503	0.1221397	7.57E-10

G	A	0.01	-0.779503	0.1221397	7.57E-10
T	C	0.01	-0.779503	0.1221397	7.57E-10
AC	A	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
A	G	0.01	-0.779503	0.1221397	7.57E-10
C	T	0.01	-0.779503	0.1221397	7.57E-10
C	T	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.7606729	0.1269866	6.53E-09
G	A	0.01	-0.779503	0.1221397	7.57E-10
G	T	0.01	-0.779503	0.1221397	7.57E-10
G	A	0.01	-0.779503	0.1221397	7.57E-10
A	G	0.01	-0.779503	0.1221397	7.57E-10
T	C	0.02	-0.7334785	0.1195114	2.94E-09
A	G	0.02	-0.7334785	0.1195114	2.94E-09
T	C	0.02	-0.7334785	0.1195114	2.94E-09
C	G	0.02	-0.7334785	0.1195114	2.94E-09
C	T	0.02	-0.7334785	0.1195114	2.94E-09
AG	A	0.02	-0.7334785	0.1195114	2.94E-09
T	A	0.02	-0.7334785	0.1195114	2.94E-09
A	G	0.02	-0.7334785	0.1195114	2.94E-09
A	G	0.02	-0.7679191	0.1130265	7.14E-11
A	AT	0.02	-0.7334785	0.1195114	2.94E-09
C	T	0.01	-0.8050316	0.1234266	3.42E-10
T	G	0.01	-0.8050316	0.1234266	3.42E-10
T	TC	0.01	-0.7154913	0.1063175	1.04E-10
A	G	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
A	T	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
C	T	0.01	-0.7154913	0.1063175	1.04E-10
C	T	0.01	-0.7154913	0.1063175	1.04E-10
T	C	0.01	-0.7154913	0.1063175	1.04E-10
C	G	0.01	-0.7154913	0.1063175	1.04E-10
G	C	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
T	C	0.01	-0.7154913	0.1063175	1.04E-10
AC	A	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
A	G	0.01	-0.7154913	0.1063175	1.04E-10
C	T	0.01	-0.7154913	0.1063175	1.04E-10
C	T	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.687167	0.1111325	2.28E-09
G	A	0.01	-0.7154913	0.1063175	1.04E-10
G	T	0.01	-0.7154913	0.1063175	1.04E-10
G	A	0.01	-0.7154913	0.1063175	1.04E-10
A	G	0.01	-0.7154913	0.1063175	1.04E-10
T	C	0.02	-0.6782393	0.104188	3.68E-10

A	G	0.02	-0.6782393	0.104188	3.68E-10
T	C	0.02	-0.6782393	0.104188	3.68E-10
C	G	0.02	-0.6782393	0.104188	3.68E-10
C	T	0.02	-0.6782393	0.104188	3.68E-10
C	T	0.01	-0.7030809	0.112377	1.52E-09
AG	A	0.02	-0.6782393	0.104188	3.68E-10
T	A	0.02	-0.6782393	0.104188	3.68E-10
A	G	0.02	-0.6782393	0.104188	3.68E-10
A	G	0.02	-0.7147937	0.0981764	3.91E-12
A	AT	0.02	-0.6782393	0.104188	3.68E-10
C	T	0.01	-0.9242622	0.1315388	1.80E-11
T	G	0.01	-0.9242622	0.1315388	1.80E-11
T	TC	0.01	-0.7845833	0.1136885	3.79E-11
A	G	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
A	T	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
C	T	0.01	-0.7845833	0.1136885	3.79E-11
C	T	0.01	-0.7845833	0.1136885	3.79E-11
T	C	0.01	-0.7845833	0.1136885	3.79E-11
C	G	0.01	-0.7845833	0.1136885	3.79E-11
G	C	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
T	C	0.01	-0.7845833	0.1136885	3.79E-11
AC	A	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
A	G	0.01	-0.7845833	0.1136885	3.79E-11
C	T	0.01	-0.7845833	0.1136885	3.79E-11
C	T	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7450336	0.118587	1.31E-09
G	A	0.01	-0.7845833	0.1136885	3.79E-11
G	T	0.01	-0.7845833	0.1136885	3.79E-11
G	A	0.01	-0.7845833	0.1136885	3.79E-11
A	G	0.01	-0.7845833	0.1136885	3.79E-11
T	C	0.02	-0.7174272	0.1115236	5.66E-10
A	G	0.02	-0.7174272	0.1115236	5.66E-10
T	C	0.02	-0.7174272	0.1115236	5.66E-10
C	G	0.02	-0.7174272	0.1115236	5.66E-10
C	T	0.02	-0.7174272	0.1115236	5.66E-10
C	T	0.01	-0.7313359	0.1209164	4.76E-09
AG	A	0.02	-0.7174272	0.1115236	5.66E-10
T	A	0.02	-0.7174272	0.1115236	5.66E-10
A	G	0.02	-0.7174272	0.1115236	5.66E-10
A	G	0.02	-0.7509877	0.1053449	9.76E-12
A	AT	0.02	-0.7174272	0.1115236	5.66E-10
C	T	0.01	-0.9515009	0.129186	2.33E-12
T	G	0.01	-0.9515009	0.129186	2.33E-12
T	TC	0.01	-0.8070949	0.1116801	5.41E-12

A	G	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
A	T	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
C	T	0.01	-0.8070949	0.1116801	5.41E-12
C	T	0.01	-0.8070949	0.1116801	5.41E-12
T	C	0.01	-0.8070949	0.1116801	5.41E-12
C	G	0.01	-0.8070949	0.1116801	5.41E-12
G	C	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
T	C	0.01	-0.8070949	0.1116801	5.41E-12
AC	A	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
A	G	0.01	-0.8070949	0.1116801	5.41E-12
C	T	0.01	-0.8070949	0.1116801	5.41E-12
C	T	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.8070949	0.1116801	5.41E-12
G	A	0.01	-0.7766903	0.1164139	1.45E-10
FGTAGAATGAGTTAAC	T	0.01	-0.7613863	0.1262199	5.20E-09
G	A	0.01	-0.8070949	0.1116801	5.41E-12
G	T	0.01	-0.8070949	0.1116801	5.41E-12
A	T	0.01	-0.7719309	0.1264739	3.53E-09
G	A	0.01	-0.8070949	0.1116801	5.41E-12
A	G	0.01	-0.8070949	0.1116801	5.41E-12
T	C	0.02	-0.7612222	0.1093603	2.67E-11
A	G	0.02	-0.7612222	0.1093603	2.67E-11
T	C	0.02	-0.7612222	0.1093603	2.67E-11
C	G	0.02	-0.7612222	0.1093603	2.67E-11
C	T	0.02	-0.7612222	0.1093603	2.67E-11
C	T	0.01	-0.7793969	0.118674	2.64E-10
AG	A	0.02	-0.7612222	0.1093603	2.67E-11
T	A	0.02	-0.7612222	0.1093603	2.67E-11
A	G	0.02	-0.7612222	0.1093603	2.67E-11
T	TG	0.01	-0.7289962	0.1192922	3.39E-09
A	G	0.02	-0.8002153	0.1031791	2.05E-13
A	AT	0.02	-0.7612222	0.1093603	2.67E-11
A	G	0.02	-0.676162	0.1111433	4.23E-09
A	G	0.02	-0.8533527	0.1340563	8.93E-10
G	A	0.02	-0.8533527	0.1340563	8.93E-10
G	A	0.01	-1.03799	0.1745462	8.72E-09
A	G	0.02	-0.8787842	0.1478122	8.79E-09
A	G	0.02	-0.7183939	0.1112981	5.11E-10
CA	C	0.03	-0.5650073	0.09217111	3.33E-09
A	G	0.02	-0.7144005	0.120467	8.99E-09
T	TC	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
A	T	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09

G	A	0.01	-0.9789815	0.1606837	4.34E-09
C	T	0.01	-0.9789815	0.1606837	4.34E-09
C	T	0.01	-0.9789815	0.1606837	4.34E-09
T	C	0.01	-0.9789815	0.1606837	4.34E-09
C	G	0.01	-0.9789815	0.1606837	4.34E-09
G	C	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
T	C	0.01	-0.9789815	0.1606837	4.34E-09
AC	A	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9789815	0.1606837	4.34E-09
C	T	0.01	-0.9789815	0.1606837	4.34E-09
C	T	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
G	T	0.01	-0.9789815	0.1606837	4.34E-09
G	A	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9789815	0.1606837	4.34E-09
T	C	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9789815	0.1606837	4.34E-09
T	C	0.01	-0.9789815	0.1606837	4.34E-09
C	G	0.01	-0.9789815	0.1606837	4.34E-09
C	T	0.01	-0.9789815	0.1606837	4.34E-09
AG	A	0.01	-0.9789815	0.1606837	4.34E-09
T	A	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9789815	0.1606837	4.34E-09
A	G	0.01	-0.9968828	0.1510122	2.66E-10
A	AT	0.01	-0.9789815	0.1606837	4.34E-09
G	C	0.02	-0.7728566	0.1270975	4.62E-09
C	T	0.01	-0.9483287	0.1570229	4.99E-09
T	G	0.01	-0.9483287	0.1570229	4.99E-09
T	TC	0.01	-0.8922353	0.1349052	2.02E-10
A	G	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
A	T	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
C	T	0.01	-0.8922353	0.1349052	2.02E-10
C	T	0.01	-0.8922353	0.1349052	2.02E-10
T	C	0.01	-0.8922353	0.1349052	2.02E-10
C	G	0.01	-0.8922353	0.1349052	2.02E-10
G	C	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
T	C	0.01	-0.8922353	0.1349052	2.02E-10
AC	A	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
A	G	0.01	-0.8922353	0.1349052	2.02E-10
C	T	0.01	-0.8922353	0.1349052	2.02E-10
C	T	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10

G	A	0.01	-0.8922353	0.1349052	2.02E-10
G	T	0.01	-0.8922353	0.1349052	2.02E-10
G	A	0.01	-0.8922353	0.1349052	2.02E-10
A	G	0.01	-0.8922353	0.1349052	2.02E-10
T	C	0.02	-0.8270447	0.132267	1.55E-09
A	G	0.02	-0.8270447	0.132267	1.55E-09
T	C	0.02	-0.8270447	0.132267	1.55E-09
C	G	0.02	-0.8270447	0.132267	1.55E-09
C	T	0.02	-0.8270447	0.132267	1.55E-09
C	T	0.01	-0.8490778	0.1430662	8.76E-09
AG	A	0.02	-0.8270447	0.132267	1.55E-09
T	A	0.02	-0.8270447	0.132267	1.55E-09
A	G	0.02	-0.8270447	0.132267	1.55E-09
A	G	0.02	-0.8483938	0.1250522	7.52E-11
A	AT	0.02	-0.8270447	0.132267	1.55E-09
C	T	0.01	-0.9358981	0.1467072	8.59E-10
T	G	0.01	-0.9358981	0.1467072	8.59E-10
T	TC	0.02	-0.8387891	0.1263762	2.02E-10
A	G	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
A	T	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
C	T	0.02	-0.8387891	0.1263762	2.02E-10
C	T	0.02	-0.8387891	0.1263762	2.02E-10
T	C	0.02	-0.8387891	0.1263762	2.02E-10
C	G	0.02	-0.8387891	0.1263762	2.02E-10
G	C	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
T	C	0.02	-0.8387891	0.1263762	2.02E-10
AC	A	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
A	G	0.02	-0.8387891	0.1263762	2.02E-10
C	T	0.02	-0.8387891	0.1263762	2.02E-10
C	T	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.02	-0.8387891	0.1263762	2.02E-10
G	A	0.01	-0.8316591	0.1314853	1.16E-09
G	A	0.02	-0.8387891	0.1263762	2.02E-10
G	T	0.02	-0.8387891	0.1263762	2.02E-10
A	T	0.01	-0.8529973	0.1425421	7.36E-09
G	A	0.02	-0.8387891	0.1263762	2.02E-10
A	G	0.02	-0.8387891	0.1263762	2.02E-10
T	C	0.02	-0.7844031	0.1238255	1.10E-09
A	G	0.02	-0.7844031	0.1238255	1.10E-09
T	C	0.02	-0.7844031	0.1238255	1.10E-09
C	G	0.02	-0.7844031	0.1238255	1.10E-09
C	T	0.02	-0.7844031	0.1238255	1.10E-09
AG	A	0.02	-0.7844031	0.1238255	1.10E-09
T	A	0.02	-0.7844031	0.1238255	1.10E-09
A	G	0.02	-0.7844031	0.1238255	1.10E-09

A	G	0.02	-0.7981312	0.1182019	1.05E-10
A	AT	0.02	-0.7844031	0.1238255	1.10E-09
G	A	0.01	-0.796445	0.1323527	6.32E-09
T	TC	0.01	-0.6533506	0.1097642	8.94E-09
A	G	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
A	T	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
C	T	0.01	-0.6533506	0.1097642	8.94E-09
C	T	0.01	-0.6533506	0.1097642	8.94E-09
T	C	0.01	-0.6533506	0.1097642	8.94E-09
C	G	0.01	-0.6533506	0.1097642	8.94E-09
G	C	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
T	C	0.01	-0.6533506	0.1097642	8.94E-09
AC	A	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
A	G	0.01	-0.6533506	0.1097642	8.94E-09
C	T	0.01	-0.6533506	0.1097642	8.94E-09
C	T	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
G	T	0.01	-0.6533506	0.1097642	8.94E-09
G	A	0.01	-0.6533506	0.1097642	8.94E-09
A	G	0.01	-0.6533506	0.1097642	8.94E-09
A	G	0.02	-0.6461231	0.1011243	8.40E-10
A	G	0.02	-0.7904195	0.1287956	2.95E-09
T	A	0.04	-0.5844175	0.09207546	9.20E-10
A	G	0.02	-0.7901848	0.1312099	5.49E-09
ATGTGTGTGTG	A	0.01	-0.9302839	0.148525	1.47E-09
C	T	0.01	-0.9181749	0.1412194	5.13E-10
T	G	0.01	-0.9181749	0.1412194	5.13E-10
T	TC	0.02	-0.7454858	0.1236579	6.58E-09
A	G	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
A	T	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
C	T	0.02	-0.7454858	0.1236579	6.58E-09
C	T	0.02	-0.7454858	0.1236579	6.58E-09
T	C	0.02	-0.7454858	0.1236579	6.58E-09
C	G	0.02	-0.7454858	0.1236579	6.58E-09
G	C	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
T	C	0.02	-0.7454858	0.1236579	6.58E-09
AC	A	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
A	G	0.02	-0.7454858	0.1236579	6.58E-09
C	T	0.02	-0.7454858	0.1236579	6.58E-09

C	T	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
G	T	0.02	-0.7454858	0.1236579	6.58E-09
G	A	0.02	-0.7454858	0.1236579	6.58E-09
A	G	0.02	-0.7454858	0.1236579	6.58E-09
A	G	0.02	-0.7120224	0.1146662	2.52E-09
C	T	0.01	-0.8936524	0.1296236	3.99E-11
T	G	0.01	-0.8936524	0.1296236	3.99E-11
T	TC	0.01	-0.7677139	0.1119668	4.97E-11
A	G	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
A	T	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
C	T	0.01	-0.7677139	0.1119668	4.97E-11
C	T	0.01	-0.7677139	0.1119668	4.97E-11
T	C	0.01	-0.7677139	0.1119668	4.97E-11
C	G	0.01	-0.7677139	0.1119668	4.97E-11
G	C	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
T	C	0.01	-0.7677139	0.1119668	4.97E-11
AC	A	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
A	G	0.01	-0.7677139	0.1119668	4.97E-11
C	T	0.01	-0.7677139	0.1119668	4.97E-11
C	T	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7437714	0.1164742	7.44E-10
G	A	0.01	-0.7677139	0.1119668	4.97E-11
G	T	0.01	-0.7677139	0.1119668	4.97E-11
G	A	0.01	-0.7677139	0.1119668	4.97E-11
A	G	0.01	-0.7677139	0.1119668	4.97E-11
T	C	0.02	-0.7099163	0.1096878	4.57E-10
A	G	0.02	-0.7099163	0.1096878	4.57E-10
T	C	0.02	-0.7099163	0.1096878	4.57E-10
C	G	0.02	-0.7099163	0.1096878	4.57E-10
C	T	0.02	-0.7099163	0.1096878	4.57E-10
C	T	0.01	-0.7306261	0.1191651	3.05E-09
AG	A	0.02	-0.7099163	0.1096878	4.57E-10
T	A	0.02	-0.7099163	0.1096878	4.57E-10
A	G	0.02	-0.7099163	0.1096878	4.57E-10
G	A	0.02	-0.5874746	0.09832661	7.12E-09
A	G	0.02	-0.7509824	0.1036146	4.81E-12
A	AT	0.02	-0.7099163	0.1096878	4.57E-10
A	G	0.02	-0.777891	0.1311511	9.13E-09
A	G	0.02	-0.7758263	0.1184181	3.36E-10
T	A	0.04	-0.5490133	0.09168655	6.63E-09
A	G	0.02	-0.7109774	0.114191	1.82E-09
A	G	0.02	-0.7853586	0.1240867	1.09E-09

A	G	0.02	-0.7900851	0.1258398	1.52E-09
A	G	0.02	-0.8227548	0.1312475	1.52E-09
C	T	0.01	-0.9678902	0.13045	1.68E-12
T	G	0.01	-0.9678902	0.13045	1.68E-12
T	TC	0.01	-0.8351324	0.1126466	1.74E-12
A	G	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
A	T	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
C	T	0.01	-0.8351324	0.1126466	1.74E-12
C	T	0.01	-0.8351324	0.1126466	1.74E-12
T	C	0.01	-0.8351324	0.1126466	1.74E-12
C	G	0.01	-0.8351324	0.1126466	1.74E-12
G	C	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
T	C	0.01	-0.8351324	0.1126466	1.74E-12
AC	A	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
A	G	0.01	-0.8351324	0.1126466	1.74E-12
C	T	0.01	-0.8351324	0.1126466	1.74E-12
C	T	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.8351324	0.1126466	1.74E-12
G	A	0.01	-0.821528	0.1172027	2.01E-11
G	A	0.01	-0.8351324	0.1126466	1.74E-12
G	T	0.01	-0.8351324	0.1126466	1.74E-12
A	T	0.01	-0.8224445	0.1273937	5.00E-10
G	A	0.01	-0.8351324	0.1126466	1.74E-12
A	G	0.01	-0.8351324	0.1126466	1.74E-12
T	C	0.02	-0.7836618	0.1103298	1.15E-11
A	G	0.02	-0.7836618	0.1103298	1.15E-11
T	C	0.02	-0.7836618	0.1103298	1.15E-11
C	G	0.02	-0.7836618	0.1103298	1.15E-11
C	T	0.02	-0.7836618	0.1103298	1.15E-11
C	T	0.01	-0.7873083	0.1200073	2.76E-10
AG	A	0.02	-0.7836618	0.1103298	1.15E-11
T	A	0.02	-0.7836618	0.1103298	1.15E-11
A	G	0.02	-0.7836618	0.1103298	1.15E-11
T	TG	0.01	-0.745223	0.12035	2.18E-09
A	G	0.02	-0.8282498	0.1040514	5.66E-14
A	AT	0.02	-0.7836618	0.1103298	1.15E-11
C	T	0.09	-0.2962014	0.04938718	6.35E-09
A	G	0.02	-0.5839607	0.09825322	8.49E-09
G	A	0.12	-0.4039071	0.06707128	5.49E-09
C	T	0.12	-0.3955555	0.06584513	5.94E-09
A	G	0.12	-0.4050155	0.06662319	4.03E-09
A	G	0.02	-0.7654145	0.1248076	3.00E-09
C	T	0.01	-0.8411076	0.1321176	8.25E-10
T	G	0.01	-0.8411076	0.1321176	8.25E-10
T	TC	0.01	-0.6795125	0.114431	8.62E-09

A	G	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
A	T	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
C	T	0.01	-0.6795125	0.114431	8.62E-09
C	T	0.01	-0.6795125	0.114431	8.62E-09
T	C	0.01	-0.6795125	0.114431	8.62E-09
C	G	0.01	-0.6795125	0.114431	8.62E-09
G	C	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
T	C	0.01	-0.6795125	0.114431	8.62E-09
AC	A	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
A	G	0.01	-0.6795125	0.114431	8.62E-09
C	T	0.01	-0.6795125	0.114431	8.62E-09
C	T	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
G	T	0.01	-0.6795125	0.114431	8.62E-09
G	A	0.01	-0.6795125	0.114431	8.62E-09
A	G	0.01	-0.6795125	0.114431	8.62E-09
A	G	0.02	-0.6683864	0.1059128	1.13E-09
T	A	0.04	-0.6438017	0.1083765	9.57E-09
C	T	0.01	-0.8386776	0.1282856	3.13E-10
T	G	0.01	-0.8386776	0.1282856	3.13E-10
T	TC	0.01	-0.7411331	0.1105488	1.20E-10
A	G	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
A	T	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
C	T	0.01	-0.7411331	0.1105488	1.20E-10
C	T	0.01	-0.7411331	0.1105488	1.20E-10
T	C	0.01	-0.7411331	0.1105488	1.20E-10
C	G	0.01	-0.7411331	0.1105488	1.20E-10
G	C	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
T	C	0.01	-0.7411331	0.1105488	1.20E-10
AC	A	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
A	G	0.01	-0.7411331	0.1105488	1.20E-10
C	T	0.01	-0.7411331	0.1105488	1.20E-10
C	T	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7411331	0.1105488	1.20E-10
G	A	0.01	-0.7095859	0.1155318	2.86E-09
G	A	0.01	-0.7411331	0.1105488	1.20E-10
G	T	0.01	-0.7411331	0.1105488	1.20E-10
A	T	0.01	-0.7648218	0.1247368	3.02E-09
G	A	0.01	-0.7411331	0.1105488	1.20E-10

A	G	0.01	-0.7411331	0.1105488	1.20E-10
T	C	0.02	-0.7255931	0.1081116	1.15E-10
A	G	0.02	-0.7255931	0.1081116	1.15E-10
T	C	0.02	-0.7255931	0.1081116	1.15E-10
C	G	0.02	-0.7255931	0.1081116	1.15E-10
C	T	0.02	-0.7255931	0.1081116	1.15E-10
C	T	0.01	-0.7326023	0.1168495	1.41E-09
AG	A	0.02	-0.7255931	0.1081116	1.15E-10
T	A	0.02	-0.7255931	0.1081116	1.15E-10
A	G	0.02	-0.7255931	0.1081116	1.15E-10
T	TG	0.01	-0.7210503	0.1180235	3.41E-09
A	G	0.02	-0.7518846	0.1019826	2.22E-12
A	AT	0.02	-0.7255931	0.1081116	1.15E-10
C	T	0.01	-0.9750697	0.1544757	1.12E-09
T	G	0.01	-0.9750697	0.1544757	1.12E-09
T	TC	0.01	-0.8507468	0.1332825	7.50E-10
A	G	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
A	T	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
C	T	0.01	-0.8507468	0.1332825	7.50E-10
C	T	0.01	-0.8507468	0.1332825	7.50E-10
T	C	0.01	-0.8507468	0.1332825	7.50E-10
C	G	0.01	-0.8507468	0.1332825	7.50E-10
G	C	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
T	C	0.01	-0.8507468	0.1332825	7.50E-10
AC	A	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
A	G	0.01	-0.8507468	0.1332825	7.50E-10
C	T	0.01	-0.8507468	0.1332825	7.50E-10
C	T	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8453059	0.1386514	3.66E-09
G	A	0.01	-0.8507468	0.1332825	7.50E-10
G	T	0.01	-0.8507468	0.1332825	7.50E-10
G	A	0.01	-0.8507468	0.1332825	7.50E-10
A	G	0.01	-0.8507468	0.1332825	7.50E-10
T	C	0.02	-0.7850287	0.1306248	5.86E-09
A	G	0.02	-0.7850287	0.1306248	5.86E-09
T	C	0.02	-0.7850287	0.1306248	5.86E-09
C	G	0.02	-0.7850287	0.1306248	5.86E-09
C	T	0.02	-0.7850287	0.1306248	5.86E-09
AG	A	0.02	-0.7850287	0.1306248	5.86E-09
T	A	0.02	-0.7850287	0.1306248	5.86E-09
A	G	0.02	-0.7850287	0.1306248	5.86E-09
A	G	0.02	-0.8255655	0.1234322	1.31E-10
A	AT	0.02	-0.7850287	0.1306248	5.86E-09
T	TC	0.01	-0.7181525	0.1212393	9.36E-09

A	G	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
A	T	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
C	T	0.01	-0.7181525	0.1212393	9.36E-09
C	T	0.01	-0.7181525	0.1212393	9.36E-09
T	C	0.01	-0.7181525	0.1212393	9.36E-09
C	G	0.01	-0.7181525	0.1212393	9.36E-09
G	C	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
T	C	0.01	-0.7181525	0.1212393	9.36E-09
AC	A	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
A	G	0.01	-0.7181525	0.1212393	9.36E-09
C	T	0.01	-0.7181525	0.1212393	9.36E-09
C	T	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
G	T	0.01	-0.7181525	0.1212393	9.36E-09
G	A	0.01	-0.7181525	0.1212393	9.36E-09
A	G	0.01	-0.7181525	0.1212393	9.36E-09
A	G	0.02	-0.738176	0.111946	2.28E-10
C	T	0.01	-0.8766388	0.1295274	8.43E-11
T	G	0.01	-0.8766388	0.1295274	8.43E-11
T	TC	0.01	-0.7525543	0.1118628	1.07E-10
A	G	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
A	T	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
C	T	0.01	-0.7525543	0.1118628	1.07E-10
C	T	0.01	-0.7525543	0.1118628	1.07E-10
T	C	0.01	-0.7525543	0.1118628	1.07E-10
C	G	0.01	-0.7525543	0.1118628	1.07E-10
G	C	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
T	C	0.01	-0.7525543	0.1118628	1.07E-10
AC	A	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
A	G	0.01	-0.7525543	0.1118628	1.07E-10
C	T	0.01	-0.7525543	0.1118628	1.07E-10
C	T	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7154031	0.1166979	3.08E-09
G	A	0.01	-0.7525543	0.1118628	1.07E-10
G	T	0.01	-0.7525543	0.1118628	1.07E-10
G	A	0.01	-0.7525543	0.1118628	1.07E-10
A	G	0.01	-0.7525543	0.1118628	1.07E-10
T	C	0.02	-0.7099768	0.1095481	4.38E-10

A	G	0.02	-0.7099768	0.1095481	4.38E-10
T	C	0.02	-0.7099768	0.1095481	4.38E-10
C	G	0.02	-0.7099768	0.1095481	4.38E-10
C	T	0.02	-0.7099768	0.1095481	4.38E-10
C	T	0.01	-0.7153456	0.1187866	5.55E-09
AG	A	0.02	-0.7099768	0.1095481	4.38E-10
T	A	0.02	-0.7099768	0.1095481	4.38E-10
A	G	0.02	-0.7099768	0.1095481	4.38E-10
A	G	0.02	-0.749011	0.1033862	4.96E-12
A	AT	0.02	-0.7099768	0.1095481	4.38E-10
C	T	0.01	-0.8406555	0.124486	9.05E-11
T	G	0.01	-0.8406555	0.124486	9.05E-11
T	TC	0.01	-0.7116416	0.1075944	2.02E-10
A	G	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
A	T	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
C	T	0.01	-0.7116416	0.1075944	2.02E-10
C	T	0.01	-0.7116416	0.1075944	2.02E-10
T	C	0.01	-0.7116416	0.1075944	2.02E-10
C	G	0.01	-0.7116416	0.1075944	2.02E-10
G	C	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
T	C	0.01	-0.7116416	0.1075944	2.02E-10
AC	A	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
A	G	0.01	-0.7116416	0.1075944	2.02E-10
C	T	0.01	-0.7116416	0.1075944	2.02E-10
C	T	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.6877031	0.1121361	3.01E-09
G	A	0.01	-0.7116416	0.1075944	2.02E-10
G	T	0.01	-0.7116416	0.1075944	2.02E-10
G	A	0.01	-0.7116416	0.1075944	2.02E-10
A	G	0.01	-0.7116416	0.1075944	2.02E-10
T	C	0.02	-0.6698684	0.1053673	8.67E-10
A	G	0.02	-0.6698684	0.1053673	8.67E-10
T	C	0.02	-0.6698684	0.1053673	8.67E-10
C	G	0.02	-0.6698684	0.1053673	8.67E-10
C	T	0.02	-0.6698684	0.1053673	8.67E-10
C	T	0.01	-0.6760567	0.1142081	9.53E-09
AG	A	0.02	-0.6698684	0.1053673	8.67E-10
T	A	0.02	-0.6698684	0.1053673	8.67E-10
A	G	0.02	-0.6698684	0.1053673	8.67E-10
A	G	0.02	-0.7092669	0.09943753	9.56E-12
A	AT	0.02	-0.6698684	0.1053673	8.67E-10
C	T	0.01	-0.9471649	0.1314387	6.14E-12
T	G	0.01	-0.9471649	0.1314387	6.14E-12
T	TC	0.01	-0.7798809	0.1138461	5.12E-11

A	G	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
A	T	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
C	T	0.01	-0.7798809	0.1138461	5.12E-11
C	T	0.01	-0.7798809	0.1138461	5.12E-11
T	C	0.01	-0.7798809	0.1138461	5.12E-11
C	G	0.01	-0.7798809	0.1138461	5.12E-11
G	C	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
T	C	0.01	-0.7798809	0.1138461	5.12E-11
AC	A	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
A	G	0.01	-0.7798809	0.1138461	5.12E-11
C	T	0.01	-0.7798809	0.1138461	5.12E-11
C	T	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7798809	0.1138461	5.12E-11
G	A	0.01	-0.7621028	0.1185118	5.75E-10
G	A	0.01	-0.7798809	0.1138461	5.12E-11
G	T	0.01	-0.7798809	0.1138461	5.12E-11
A	T	0.01	-0.8204776	0.1281801	6.79E-10
G	A	0.01	-0.7798809	0.1138461	5.12E-11
A	G	0.01	-0.7798809	0.1138461	5.12E-11
T	C	0.02	-0.7291122	0.111512	3.12E-10
A	G	0.02	-0.7291122	0.111512	3.12E-10
T	C	0.02	-0.7291122	0.111512	3.12E-10
C	G	0.02	-0.7291122	0.111512	3.12E-10
C	T	0.02	-0.7291122	0.111512	3.12E-10
C	T	0.01	-0.7398253	0.1210164	3.34E-09
AG	A	0.02	-0.7291122	0.111512	3.12E-10
T	A	0.02	-0.7291122	0.111512	3.12E-10
A	G	0.02	-0.7291122	0.111512	3.12E-10
T	TG	0.01	-0.7318399	0.1212681	5.12E-09
A	G	0.02	-0.7300514	0.1056563	3.61E-11
A	AT	0.02	-0.7291122	0.111512	3.12E-10
C	T	0.01	-0.9287604	0.1358383	5.56E-11
T	G	0.01	-0.9287604	0.1358383	5.56E-11
T	TC	0.01	-0.7948938	0.1173691	8.11E-11
A	G	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
A	T	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
C	T	0.01	-0.7948938	0.1173691	8.11E-11
C	T	0.01	-0.7948938	0.1173691	8.11E-11
T	C	0.01	-0.7948938	0.1173691	8.11E-11
C	G	0.01	-0.7948938	0.1173691	8.11E-11
G	C	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11

T	C	0.01	-0.7948938	0.1173691	8.11E-11
AC	A	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
A	G	0.01	-0.7948938	0.1173691	8.11E-11
C	T	0.01	-0.7948938	0.1173691	8.11E-11
C	T	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7756598	0.1219659	8.60E-10
G	A	0.01	-0.7948938	0.1173691	8.11E-11
G	T	0.01	-0.7948938	0.1173691	8.11E-11
G	A	0.01	-0.7948938	0.1173691	8.11E-11
A	G	0.01	-0.7948938	0.1173691	8.11E-11
T	C	0.02	-0.735546	0.1149362	6.87E-10
A	G	0.02	-0.735546	0.1149362	6.87E-10
T	C	0.02	-0.735546	0.1149362	6.87E-10
C	G	0.02	-0.735546	0.1149362	6.87E-10
C	T	0.02	-0.735546	0.1149362	6.87E-10
C	T	0.01	-0.7562874	0.1249773	4.70E-09
AG	A	0.02	-0.735546	0.1149362	6.87E-10
T	A	0.02	-0.735546	0.1149362	6.87E-10
A	G	0.02	-0.735546	0.1149362	6.87E-10
A	G	0.02	-0.7504616	0.1088866	4.03E-11
A	AT	0.02	-0.735546	0.1149362	6.87E-10
C	T	0.01	-0.977755	0.1425891	4.91E-11
T	G	0.01	-0.977755	0.1425891	4.91E-11
T	TC	0.01	-0.794459	0.1235448	5.74E-10
A	G	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
A	T	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
C	T	0.01	-0.794459	0.1235448	5.74E-10
C	T	0.01	-0.794459	0.1235448	5.74E-10
T	C	0.01	-0.794459	0.1235448	5.74E-10
C	G	0.01	-0.794459	0.1235448	5.74E-10
G	C	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
T	C	0.01	-0.794459	0.1235448	5.74E-10
AC	A	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
A	G	0.01	-0.794459	0.1235448	5.74E-10
C	T	0.01	-0.794459	0.1235448	5.74E-10
C	T	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
G	A	0.01	-0.794459	0.1235448	5.74E-10
G	T	0.01	-0.794459	0.1235448	5.74E-10
A	T	0.01	-0.8323105	0.1391171	6.78E-09
G	A	0.01	-0.794459	0.1235448	5.74E-10
A	G	0.01	-0.794459	0.1235448	5.74E-10
T	C	0.02	-0.7540335	0.1209229	1.71E-09

A	G	0.02	-0.7540335	0.1209229	1.71E-09
T	C	0.02	-0.7540335	0.1209229	1.71E-09
C	G	0.02	-0.7540335	0.1209229	1.71E-09
C	T	0.02	-0.7540335	0.1209229	1.71E-09
AG	A	0.02	-0.7540335	0.1209229	1.71E-09
T	A	0.02	-0.7540335	0.1209229	1.71E-09
A	G	0.02	-0.7540335	0.1209229	1.71E-09
A	G	0.02	-0.7625055	0.1144792	1.54E-10
A	AT	0.02	-0.7540335	0.1209229	1.71E-09
C	T	0.01	-0.887945	0.1452831	3.37E-09
T	G	0.01	-0.887945	0.1452831	3.37E-09
T	TC	0.01	-0.7853463	0.1268128	2.16E-09
A	G	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
A	T	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
C	T	0.01	-0.7853463	0.1268128	2.16E-09
C	T	0.01	-0.7853463	0.1268128	2.16E-09
T	C	0.01	-0.7853463	0.1268128	2.16E-09
C	G	0.01	-0.7853463	0.1268128	2.16E-09
G	C	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
T	C	0.01	-0.7853463	0.1268128	2.16E-09
AC	A	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
A	G	0.01	-0.7853463	0.1268128	2.16E-09
C	T	0.01	-0.7853463	0.1268128	2.16E-09
C	T	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7939464	0.1320645	5.80E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
G	T	0.01	-0.7853463	0.1268128	2.16E-09
G	A	0.01	-0.7853463	0.1268128	2.16E-09
A	G	0.01	-0.7853463	0.1268128	2.16E-09
A	G	0.02	-0.7824869	0.1170873	1.36E-10
C	T	0.01	-0.9643233	0.1605906	6.01E-09
T	G	0.01	-0.9643233	0.1605906	6.01E-09
T	TC	0.01	-0.8264917	0.1386687	7.64E-09
A	G	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
A	T	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
C	T	0.01	-0.8264917	0.1386687	7.64E-09
C	T	0.01	-0.8264917	0.1386687	7.64E-09
T	C	0.01	-0.8264917	0.1386687	7.64E-09
C	G	0.01	-0.8264917	0.1386687	7.64E-09
G	C	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09

T	C	0.01	-0.8264917	0.1386687	7.64E-09
AC	A	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
A	G	0.01	-0.8264917	0.1386687	7.64E-09
C	T	0.01	-0.8264917	0.1386687	7.64E-09
C	T	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
G	T	0.01	-0.8264917	0.1386687	7.64E-09
G	A	0.01	-0.8264917	0.1386687	7.64E-09
A	G	0.01	-0.8264917	0.1386687	7.64E-09
A	G	0.02	-0.7771077	0.1286506	4.96E-09
G	A	0.05	-0.5895606	0.09951286	9.27E-09
CA	C	0.03	-0.4867512	0.08183897	8.19E-09
A	G	0.02	-0.6654074	0.1100487	4.81E-09
T	TC	0.01	-0.7943992	0.1319457	5.56E-09
A	G	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
A	T	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
C	T	0.01	-0.7943992	0.1319457	5.56E-09
C	T	0.01	-0.7943992	0.1319457	5.56E-09
T	C	0.01	-0.7943992	0.1319457	5.56E-09
C	G	0.01	-0.7943992	0.1319457	5.56E-09
G	C	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
T	C	0.01	-0.7943992	0.1319457	5.56E-09
AC	A	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
A	G	0.01	-0.7943992	0.1319457	5.56E-09
C	T	0.01	-0.7943992	0.1319457	5.56E-09
C	T	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
G	T	0.01	-0.7943992	0.1319457	5.56E-09
G	A	0.01	-0.7943992	0.1319457	5.56E-09
A	G	0.01	-0.7943992	0.1319457	5.56E-09
A	G	0.02	-0.8191974	0.1216342	1.01E-10
G	A	0.12	-0.2989839	0.05039942	8.94E-09
C	T	0.01	-0.858485	0.1393031	2.87E-09
T	G	0.01	-0.858485	0.1393031	2.87E-09
T	TC	0.02	-0.7326412	0.1194232	3.33E-09
A	G	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
A	T	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
C	T	0.02	-0.7326412	0.1194232	3.33E-09
C	T	0.02	-0.7326412	0.1194232	3.33E-09

T	C	0.02	-0.7326412	0.1194232	3.33E-09
C	G	0.02	-0.7326412	0.1194232	3.33E-09
G	C	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
T	C	0.02	-0.7326412	0.1194232	3.33E-09
AC	A	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
A	G	0.02	-0.7326412	0.1194232	3.33E-09
C	T	0.02	-0.7326412	0.1194232	3.33E-09
C	T	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
G	T	0.02	-0.7326412	0.1194232	3.33E-09
G	A	0.02	-0.7326412	0.1194232	3.33E-09
A	G	0.02	-0.7326412	0.1194232	3.33E-09
A	G	0.02	-0.7060244	0.1119166	1.29E-09
C	T	0.03	-0.6172157	0.1040402	8.96E-09
T	TC	0.01	-0.7540999	0.1208112	1.66E-09
A	G	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
A	T	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
C	T	0.01	-0.7540999	0.1208112	1.66E-09
C	T	0.01	-0.7540999	0.1208112	1.66E-09
T	C	0.01	-0.7540999	0.1208112	1.66E-09
C	G	0.01	-0.7540999	0.1208112	1.66E-09
G	C	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
T	C	0.01	-0.7540999	0.1208112	1.66E-09
AC	A	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
A	G	0.01	-0.7540999	0.1208112	1.66E-09
C	T	0.01	-0.7540999	0.1208112	1.66E-09
C	T	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
G	T	0.01	-0.7540999	0.1208112	1.66E-09
G	A	0.01	-0.7540999	0.1208112	1.66E-09
A	G	0.01	-0.7540999	0.1208112	1.66E-09
A	G	0.02	-0.7469763	0.1116533	1.31E-10
G	GCACACACACA	0.02	-0.5938716	0.1000703	8.82E-09
C	T	0.01	-0.964875	0.1405044	4.63E-11
T	G	0.01	-0.964875	0.1405044	4.63E-11
T	TC	0.01	-0.8205602	0.1214307	8.80E-11
A	G	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
A	T	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11

C	T	0.01	-0.8205602	0.1214307	8.80E-11
C	T	0.01	-0.8205602	0.1214307	8.80E-11
T	C	0.01	-0.8205602	0.1214307	8.80E-11
C	G	0.01	-0.8205602	0.1214307	8.80E-11
G	C	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
T	C	0.01	-0.8205602	0.1214307	8.80E-11
AC	A	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
A	G	0.01	-0.8205602	0.1214307	8.80E-11
C	T	0.01	-0.8205602	0.1214307	8.80E-11
C	T	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.7867751	0.1264735	1.85E-09
G	A	0.01	-0.8205602	0.1214307	8.80E-11
G	T	0.01	-0.8205602	0.1214307	8.80E-11
G	A	0.01	-0.8205602	0.1214307	8.80E-11
A	G	0.01	-0.8205602	0.1214307	8.80E-11
T	C	0.02	-0.7466265	0.1190915	1.41E-09
A	G	0.02	-0.7466265	0.1190915	1.41E-09
T	C	0.02	-0.7466265	0.1190915	1.41E-09
C	G	0.02	-0.7466265	0.1190915	1.41E-09
C	T	0.02	-0.7466265	0.1190915	1.41E-09
AG	A	0.02	-0.7466265	0.1190915	1.41E-09
T	A	0.02	-0.7466265	0.1190915	1.41E-09
A	G	0.02	-0.7466265	0.1190915	1.41E-09
A	G	0.02	-0.7621023	0.1127594	8.74E-11
A	AT	0.02	-0.7466265	0.1190915	1.41E-09
CA	C	0.02	-0.8816698	0.1387868	1.15E-09
A	G	0.05	-0.6218767	0.09925369	1.85E-09
C	T	0.04	-0.6607697	0.1005123	3.42E-10
T	A	0.04	-0.7595979	0.1047577	7.16E-12
T	TA	0.03	-0.71757	0.1160575	2.89E-09
T	C	0.03	-0.7074721	0.115496	3.92E-09
G	A	0.03	-0.7074721	0.115496	3.92E-09
G	A	0.03	-0.7074721	0.115496	3.92E-09
T	C	0.03	-0.7074721	0.115496	3.92E-09
C	A	0.01	-1.173618	0.1968997	9.37E-09
C	T	0.18	0.3171691	0.05284682	7.34E-09
A	G	0.02	-0.7421714	0.1212038	3.20E-09
A	G	0.02	-0.7322136	0.1193664	3.07E-09
C	T	0.01	-0.9854126	0.1441794	5.61E-11
T	G	0.01	-0.9854126	0.1441794	5.61E-11
T	TC	0.01	-0.8228956	0.1247391	2.23E-10
A	G	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
A	T	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
C	T	0.01	-0.8228956	0.1247391	2.23E-10

C	T	0.01	-0.8228956	0.1247391	2.23E-10
T	C	0.01	-0.8228956	0.1247391	2.23E-10
C	G	0.01	-0.8228956	0.1247391	2.23E-10
G	C	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
T	C	0.01	-0.8228956	0.1247391	2.23E-10
AC	A	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
A	G	0.01	-0.8228956	0.1247391	2.23E-10
C	T	0.01	-0.8228956	0.1247391	2.23E-10
C	T	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.7916563	0.1299221	3.73E-09
G	A	0.01	-0.8228956	0.1247391	2.23E-10
G	T	0.01	-0.8228956	0.1247391	2.23E-10
G	A	0.01	-0.8228956	0.1247391	2.23E-10
A	G	0.01	-0.8228956	0.1247391	2.23E-10
T	C	0.02	-0.7582536	0.1222521	2.05E-09
A	G	0.02	-0.7582536	0.1222521	2.05E-09
T	C	0.02	-0.7582536	0.1222521	2.05E-09
C	G	0.02	-0.7582536	0.1222521	2.05E-09
C	T	0.02	-0.7582536	0.1222521	2.05E-09
AG	A	0.02	-0.7582536	0.1222521	2.05E-09
T	A	0.02	-0.7582536	0.1222521	2.05E-09
A	G	0.02	-0.7582536	0.1222521	2.05E-09
A	G	0.02	-0.8016699	0.1154779	2.97E-11
A	AT	0.02	-0.7582536	0.1222521	2.05E-09
CA	C	0.03	-0.5277468	0.08918671	9.67E-09
T	TC	0.01	-0.762921	0.1260615	4.68E-09
A	G	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
A	T	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
C	T	0.01	-0.762921	0.1260615	4.68E-09
C	T	0.01	-0.762921	0.1260615	4.68E-09
T	C	0.01	-0.762921	0.1260615	4.68E-09
C	G	0.01	-0.762921	0.1260615	4.68E-09
G	C	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
T	C	0.01	-0.762921	0.1260615	4.68E-09
AC	A	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
A	G	0.01	-0.762921	0.1260615	4.68E-09
C	T	0.01	-0.762921	0.1260615	4.68E-09
C	T	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09
G	T	0.01	-0.762921	0.1260615	4.68E-09
G	A	0.01	-0.762921	0.1260615	4.68E-09

A	G	0.01	-0.762921	0.1260615	4.68E-09
A	G	0.02	-0.7413739	0.1167049	8.94E-10
C	T	0.01	-0.9596525	0.1376254	2.58E-11
T	G	0.01	-0.9596525	0.1376254	2.58E-11
T	TC	0.02	-0.806727	0.1191287	8.40E-11
A	G	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
A	T	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
C	T	0.02	-0.806727	0.1191287	8.40E-11
C	T	0.02	-0.806727	0.1191287	8.40E-11
T	C	0.02	-0.806727	0.1191287	8.40E-11
C	G	0.02	-0.806727	0.1191287	8.40E-11
G	C	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
T	C	0.02	-0.806727	0.1191287	8.40E-11
AC	A	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
A	G	0.02	-0.806727	0.1191287	8.40E-11
C	T	0.02	-0.806727	0.1191287	8.40E-11
C	T	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.01	-0.7737402	0.124148	1.78E-09
G	A	0.02	-0.806727	0.1191287	8.40E-11
G	T	0.02	-0.806727	0.1191287	8.40E-11
G	A	0.02	-0.806727	0.1191287	8.40E-11
A	G	0.02	-0.806727	0.1191287	8.40E-11
T	C	0.02	-0.7571792	0.1166881	4.26E-10
A	G	0.02	-0.7571792	0.1166881	4.26E-10
T	C	0.02	-0.7571792	0.1166881	4.26E-10
C	G	0.02	-0.7571792	0.1166881	4.26E-10
C	T	0.02	-0.7571792	0.1166881	4.26E-10
C	T	0.02	-0.7668025	0.1265623	4.61E-09
AG	A	0.02	-0.7571792	0.1166881	4.26E-10
T	A	0.02	-0.7571792	0.1166881	4.26E-10
A	G	0.02	-0.7571792	0.1166881	4.26E-10
A	G	0.02	-0.7991416	0.1101603	4.80E-12
A	AT	0.02	-0.7571792	0.1166881	4.26E-10
T	A	0.04	-0.5971157	0.09973923	7.48E-09
T	TACACAC	0.01	-1.158068	0.1908872	4.88E-09
GT	G	0.02	-0.9633104	0.1540122	1.55E-09
T	A	0.02	-0.9057135	0.1506432	5.83E-09
G	GA	0.02	-0.8542335	0.1396065	3.27E-09
A	G	0.02	-0.8542335	0.1396065	3.27E-09
C	T	0.02	-0.8542335	0.1396065	3.27E-09
C	G	0.02	-0.8542335	0.1396065	3.27E-09
G	A	0.02	-0.8542335	0.1396065	3.27E-09
T	G	0.02	-0.8542335	0.1396065	3.27E-09
T	C	0.02	-0.8542335	0.1396065	3.27E-09

G	C	0.02	-0.8542335	0.1396065	3.27E-09
G	A	0.02	-0.8542335	0.1396065	3.27E-09
A	G	0.02	-0.8542335	0.1396065	3.27E-09
A	G	0.02	-0.9191582	0.1477125	1.85E-09
G	A	0.22	-0.3000692	0.04758999	1.17E-09
C	T	0.01	-1.124326	0.1829813	2.84E-09
T	G	0.01	-1.124326	0.1829813	2.84E-09
A	G	0.02	-0.8737608	0.1466506	7.80E-09
A	G	0.02	-0.883329	0.1384442	8.01E-10
A	G	0.04	-0.5691875	0.09316111	3.55E-09
G	C	0.02	-0.776477	0.1236911	1.41E-09
A	G	0.04	-0.4700181	0.07837104	6.29E-09
A	G	0.02	-0.7418049	0.1182842	1.41E-09
G	C	0.02	-0.6834206	0.1033919	2.08E-10
T	TC	0.02	-0.9248235	0.1558043	9.56E-09
A	G	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
A	T	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
C	T	0.02	-0.9248235	0.1558043	9.56E-09
C	T	0.02	-0.9248235	0.1558043	9.56E-09
T	C	0.02	-0.9248235	0.1558043	9.56E-09
C	G	0.02	-0.9248235	0.1558043	9.56E-09
G	C	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
T	C	0.02	-0.9248235	0.1558043	9.56E-09
AC	A	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
A	G	0.02	-0.9248235	0.1558043	9.56E-09
C	T	0.02	-0.9248235	0.1558043	9.56E-09
C	T	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
G	T	0.02	-0.9248235	0.1558043	9.56E-09
G	A	0.02	-0.9248235	0.1558043	9.56E-09
A	G	0.02	-0.9248235	0.1558043	9.56E-09
A	G	0.02	-0.8778862	0.1440451	4.10E-09
A	G	0.03	-0.7747408	0.128097	6.23E-09
T	C	0.01	-0.9504668	0.1548483	3.35E-09
TTA	T	0.01	-0.9504668	0.1548483	3.35E-09
A	G	0.02	-0.7772362	0.1265364	3.27E-09
A	G	0.02	-0.6906603	0.1136383	4.47E-09
C	G	0.01	-0.9090569	0.1482778	3.36E-09
G	C	0.01	-0.9090569	0.1482778	3.36E-09
T	TACACAC	0.01	-0.9971977	0.1547467	6.01E-10
G	A	0.01	-0.9090569	0.1482778	3.36E-09
T	C	0.01	-0.9090569	0.1482778	3.36E-09
C	T	0.01	-0.9090569	0.1482778	3.36E-09
T	C	0.01	-0.9090569	0.1482778	3.36E-09

C	T	0.01	-0.9090569	0.1482778	3.36E-09
C	A	0.01	-0.9090569	0.1482778	3.36E-09
G	T	0.01	-0.9090569	0.1482778	3.36E-09
T	C	0.01	-0.9090569	0.1482778	3.36E-09
T	C	0.01	-0.9090569	0.1482778	3.36E-09
T	C	0.01	-0.9090569	0.1482778	3.36E-09
C	T	0.01	-1.063855	0.1485546	8.53E-12
T	G	0.01	-1.063855	0.1485546	8.53E-12
T	TC	0.02	-0.8729444	0.128686	7.95E-11
A	G	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
A	T	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
C	T	0.02	-0.8729444	0.128686	7.95E-11
C	T	0.02	-0.8729444	0.128686	7.95E-11
T	C	0.02	-0.8729444	0.128686	7.95E-11
C	G	0.02	-0.8729444	0.128686	7.95E-11
G	C	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
T	C	0.02	-0.8729444	0.128686	7.95E-11
AC	A	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
A	G	0.02	-0.8729444	0.128686	7.95E-11
C	T	0.02	-0.8729444	0.128686	7.95E-11
C	T	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.01	-0.8253327	0.1343605	2.94E-09
G	A	0.02	-0.8729444	0.128686	7.95E-11
G	T	0.02	-0.8729444	0.128686	7.95E-11
G	A	0.02	-0.8729444	0.128686	7.95E-11
A	G	0.02	-0.8729444	0.128686	7.95E-11
T	C	0.02	-0.806946	0.1262049	7.34E-10
A	G	0.02	-0.806946	0.1262049	7.34E-10
T	C	0.02	-0.806946	0.1262049	7.34E-10
C	G	0.02	-0.806946	0.1262049	7.34E-10
C	T	0.02	-0.806946	0.1262049	7.34E-10
C	T	0.02	-0.8359493	0.1365623	3.31E-09
AG	A	0.02	-0.806946	0.1262049	7.34E-10
T	A	0.02	-0.806946	0.1262049	7.34E-10
A	G	0.02	-0.806946	0.1262049	7.34E-10
A	G	0.02	-0.8666153	0.1189286	4.00E-12
A	AT	0.02	-0.806946	0.1262049	7.34E-10
C	T	0.01	-1.01954	0.1397907	4.36E-12
T	G	0.01	-1.01954	0.1397907	4.36E-12
T	TC	0.02	-0.8634385	0.1208521	1.06E-11
A	G	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.02	-0.8634385	0.1208521	1.06E-11
A	T	0.02	-0.8634385	0.1208521	1.06E-11

G	A	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.02	-0.8634385	0.1208521	1.06E-11
C	T	0.02	-0.8634385	0.1208521	1.06E-11
C	T	0.02	-0.8634385	0.1208521	1.06E-11
T	C	0.02	-0.8634385	0.1208521	1.06E-11
C	G	0.02	-0.8634385	0.1208521	1.06E-11
G	C	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.02	-0.8634385	0.1208521	1.06E-11
T	C	0.02	-0.8634385	0.1208521	1.06E-11
AC	A	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.02	-0.8634385	0.1208521	1.06E-11
A	G	0.02	-0.8634385	0.1208521	1.06E-11
C	T	0.02	-0.8634385	0.1208521	1.06E-11
C	T	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.02	-0.8634385	0.1208521	1.06E-11
G	A	0.01	-0.8288742	0.1262872	3.07E-10
GTAGAAATGAGTTAAAC	T	0.01	-0.8100121	0.136029	8.61E-09
G	A	0.02	-0.8634385	0.1208521	1.06E-11
G	T	0.02	-0.8634385	0.1208521	1.06E-11
A	T	0.01	-0.82506	0.1370278	6.04E-09
G	A	0.02	-0.8634385	0.1208521	1.06E-11
A	G	0.02	-0.8634385	0.1208521	1.06E-11
T	C	0.02	-0.8124443	0.118509	5.77E-11
A	G	0.02	-0.8124443	0.118509	5.77E-11
T	C	0.02	-0.8124443	0.118509	5.77E-11
C	G	0.02	-0.8124443	0.118509	5.77E-11
C	T	0.02	-0.8124443	0.118509	5.77E-11
C	T	0.02	-0.8277269	0.1282524	5.67E-10
AG	A	0.02	-0.8124443	0.118509	5.77E-11
T	A	0.02	-0.8124443	0.118509	5.77E-11
A	G	0.02	-0.8124443	0.118509	5.77E-11
A	G	0.02	-0.851655	0.1116877	5.81E-13
A	AT	0.02	-0.8124443	0.118509	5.77E-11
G	C	0.05	-0.5526978	0.09014241	3.55E-09
G	T	0.03	-0.7994529	0.1340776	7.94E-09
T	TC	0.01	-1.244657	0.1936686	6.27E-10
A	G	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
A	T	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
C	T	0.01	-1.244657	0.1936686	6.27E-10
C	T	0.01	-1.244657	0.1936686	6.27E-10
T	C	0.01	-1.244657	0.1936686	6.27E-10
C	G	0.01	-1.244657	0.1936686	6.27E-10
G	C	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
T	C	0.01	-1.244657	0.1936686	6.27E-10
AC	A	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10

A	G	0.01	-1.244657	0.1936686	6.27E-10
C	T	0.01	-1.244657	0.1936686	6.27E-10
C	T	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.241018	0.2013015	2.67E-09
ΓGTAGAATGAGTTAAκ	T	0.01	-1.364668	0.2198277	2.11E-09
G	A	0.01	-1.244657	0.1936686	6.27E-10
G	T	0.01	-1.244657	0.1936686	6.27E-10
G	A	0.01	-1.244657	0.1936686	6.27E-10
A	G	0.01	-1.244657	0.1936686	6.27E-10
T	C	0.02	-1.133717	0.1894781	7.11E-09
A	G	0.02	-1.133717	0.1894781	7.11E-09
T	C	0.02	-1.133717	0.1894781	7.11E-09
C	G	0.02	-1.133717	0.1894781	7.11E-09
C	T	0.02	-1.133717	0.1894781	7.11E-09
C	T	0.01	-1.244848	0.2064791	5.57E-09
AG	A	0.02	-1.133717	0.1894781	7.11E-09
T	A	0.02	-1.133717	0.1894781	7.11E-09
A	G	0.02	-1.133717	0.1894781	7.11E-09
A	G	0.02	-1.186627	0.1788381	1.93E-10
A	AT	0.02	-1.133717	0.1894781	7.11E-09
C	T	0.01	-0.9552739	0.1520562	1.33E-09
T	G	0.01	-0.9552739	0.1520562	1.33E-09
T	TC	0.01	-0.8443613	0.1310332	5.36E-10
A	G	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
A	T	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
C	T	0.01	-0.8443613	0.1310332	5.36E-10
C	T	0.01	-0.8443613	0.1310332	5.36E-10
T	C	0.01	-0.8443613	0.1310332	5.36E-10
C	G	0.01	-0.8443613	0.1310332	5.36E-10
G	C	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
T	C	0.01	-0.8443613	0.1310332	5.36E-10
AC	A	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
A	G	0.01	-0.8443613	0.1310332	5.36E-10
C	T	0.01	-0.8443613	0.1310332	5.36E-10
C	T	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8361974	0.1367373	3.32E-09
G	A	0.01	-0.8443613	0.1310332	5.36E-10
G	T	0.01	-0.8443613	0.1310332	5.36E-10
G	A	0.01	-0.8443613	0.1310332	5.36E-10
A	G	0.01	-0.8443613	0.1310332	5.36E-10
A	G	0.02	-0.8111828	0.1213463	1.35E-10
T	A	0.04	-0.4672623	0.07795561	6.40E-09
A	G	0.02	-0.693634	0.1139479	3.86E-09

T	TC	0.01	-0.8757937	0.1365385	6.41E-10
A	G	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
A	T	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
C	T	0.01	-0.8757937	0.1365385	6.41E-10
C	T	0.01	-0.8757937	0.1365385	6.41E-10
T	C	0.01	-0.8757937	0.1365385	6.41E-10
C	G	0.01	-0.8757937	0.1365385	6.41E-10
G	C	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
T	C	0.01	-0.8757937	0.1365385	6.41E-10
AC	A	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
A	G	0.01	-0.8757937	0.1365385	6.41E-10
C	T	0.01	-0.8757937	0.1365385	6.41E-10
C	T	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8520445	0.1430629	7.95E-09
G	A	0.01	-0.8757937	0.1365385	6.41E-10
G	T	0.01	-0.8757937	0.1365385	6.41E-10
G	A	0.01	-0.8757937	0.1365385	6.41E-10
A	G	0.01	-0.8757937	0.1365385	6.41E-10
A	G	0.02	-0.8447306	0.1259741	1.22E-10
CA	C	0.03	-0.5530652	0.09024728	3.14E-09
C	T	0.01	-0.8807723	0.1481739	8.48E-09
T	G	0.01	-0.8807723	0.1481739	8.48E-09
T	TC	0.01	-0.8315375	0.130361	7.86E-10
A	G	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
A	T	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
C	T	0.01	-0.8315375	0.130361	7.86E-10
C	T	0.01	-0.8315375	0.130361	7.86E-10
T	C	0.01	-0.8315375	0.130361	7.86E-10
C	G	0.01	-0.8315375	0.130361	7.86E-10
G	C	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
T	C	0.01	-0.8315375	0.130361	7.86E-10
AC	A	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
A	G	0.01	-0.8315375	0.130361	7.86E-10
C	T	0.01	-0.8315375	0.130361	7.86E-10
C	T	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8315375	0.130361	7.86E-10
G	A	0.01	-0.8239851	0.1365247	5.19E-09
G	A	0.01	-0.8315375	0.130361	7.86E-10
G	T	0.01	-0.8315375	0.130361	7.86E-10

G	A	0.01	-0.8315375	0.130361	7.86E-10
A	G	0.01	-0.8315375	0.130361	7.86E-10
T	C	0.01	-0.7654118	0.1278471	6.74E-09
A	G	0.01	-0.7654118	0.1278471	6.74E-09
T	C	0.01	-0.7654118	0.1278471	6.74E-09
C	G	0.01	-0.7654118	0.1278471	6.74E-09
C	T	0.01	-0.7654118	0.1278471	6.74E-09
AG	A	0.01	-0.7654118	0.1278471	6.74E-09
T	A	0.01	-0.7654118	0.1278471	6.74E-09
A	G	0.01	-0.7654118	0.1278471	6.74E-09
A	G	0.02	-0.7899623	0.1203309	2.74E-10
A	AT	0.01	-0.7654118	0.1278471	6.74E-09
A	G	0.02	-0.9511511	0.1577961	5.70E-09
T	A	0.04	-0.4534666	0.07637885	8.71E-09
A	G	0.02	-0.6642478	0.1066588	1.79E-09
C	A	0.01	-0.7943979	0.1341336	9.42E-09
C	T	0.01	-0.8731976	0.1355199	5.39E-10
T	G	0.01	-0.8731976	0.1355199	5.39E-10
T	TC	0.01	-0.7444558	0.1170607	8.63E-10
A	G	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
A	T	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
C	T	0.01	-0.7444558	0.1170607	8.63E-10
C	T	0.01	-0.7444558	0.1170607	8.63E-10
T	C	0.01	-0.7444558	0.1170607	8.63E-10
C	G	0.01	-0.7444558	0.1170607	8.63E-10
G	C	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
T	C	0.01	-0.7444558	0.1170607	8.63E-10
AC	A	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
A	G	0.01	-0.7444558	0.1170607	8.63E-10
C	T	0.01	-0.7444558	0.1170607	8.63E-10
C	T	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7300687	0.1219539	6.69E-09
G	A	0.01	-0.7444558	0.1170607	8.63E-10
G	T	0.01	-0.7444558	0.1170607	8.63E-10
G	A	0.01	-0.7444558	0.1170607	8.63E-10
A	G	0.01	-0.7444558	0.1170607	8.63E-10
T	C	0.02	-0.6822692	0.1148039	8.45E-09
A	G	0.02	-0.6822692	0.1148039	8.45E-09
T	C	0.02	-0.6822692	0.1148039	8.45E-09
C	G	0.02	-0.6822692	0.1148039	8.45E-09
C	T	0.02	-0.6822692	0.1148039	8.45E-09
AG	A	0.02	-0.6822692	0.1148039	8.45E-09
T	A	0.02	-0.6822692	0.1148039	8.45E-09
A	G	0.02	-0.6822692	0.1148039	8.45E-09

A	G	0.02	-0.7341301	0.1082861	7.83E-11
A	AT	0.02	-0.6822692	0.1148039	8.45E-09
A	G	0.02	-0.9429014	0.1577067	6.97E-09
CA	C	0.03	-0.5673946	0.08946785	9.95E-10
T	TC	0.01	-0.8532124	0.1284539	1.83E-10
A	G	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
A	T	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
C	T	0.01	-0.8532124	0.1284539	1.83E-10
C	T	0.01	-0.8532124	0.1284539	1.83E-10
T	C	0.01	-0.8532124	0.1284539	1.83E-10
C	G	0.01	-0.8532124	0.1284539	1.83E-10
G	C	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
T	C	0.01	-0.8532124	0.1284539	1.83E-10
AC	A	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
A	G	0.01	-0.8532124	0.1284539	1.83E-10
C	T	0.01	-0.8532124	0.1284539	1.83E-10
C	T	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8247876	0.1344805	3.14E-09
G	A	0.01	-0.8532124	0.1284539	1.83E-10
G	T	0.01	-0.8532124	0.1284539	1.83E-10
G	A	0.01	-0.8532124	0.1284539	1.83E-10
A	G	0.01	-0.8532124	0.1284539	1.83E-10
T	C	0.02	-0.7836661	0.1260106	1.96E-09
A	G	0.02	-0.7836661	0.1260106	1.96E-09
T	C	0.02	-0.7836661	0.1260106	1.96E-09
C	G	0.02	-0.7836661	0.1260106	1.96E-09
C	T	0.02	-0.7836661	0.1260106	1.96E-09
AG	A	0.02	-0.7836661	0.1260106	1.96E-09
T	A	0.02	-0.7836661	0.1260106	1.96E-09
A	G	0.02	-0.7836661	0.1260106	1.96E-09
A	G	0.02	-0.7828183	0.1205389	4.23E-10
A	AT	0.02	-0.7836661	0.1260106	1.96E-09
C	T	0.01	-1.039664	0.1345153	3.06E-13
T	G	0.01	-1.039664	0.1345153	3.06E-13
T	TC	0.02	-0.8868754	0.1158302	4.79E-13
A	G	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
A	T	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
C	T	0.02	-0.8868754	0.1158302	4.79E-13
C	T	0.02	-0.8868754	0.1158302	4.79E-13
T	C	0.02	-0.8868754	0.1158302	4.79E-13
C	G	0.02	-0.8868754	0.1158302	4.79E-13

G	C	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
T	C	0.02	-0.8868754	0.1158302	4.79E-13
AC	A	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
A	G	0.02	-0.8868754	0.1158302	4.79E-13
C	T	0.02	-0.8868754	0.1158302	4.79E-13
C	T	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.02	-0.8868754	0.1158302	4.79E-13
G	A	0.01	-0.8799428	0.1208498	4.69E-12
ΓGTAGAATGAGTTAAAC	T	0.01	-0.8163301	0.1313009	2.10E-09
G	A	0.02	-0.8868754	0.1158302	4.79E-13
G	T	0.02	-0.8868754	0.1158302	4.79E-13
A	T	0.01	-0.8184042	0.1304812	1.55E-09
G	A	0.02	-0.8868754	0.1158302	4.79E-13
A	G	0.02	-0.8868754	0.1158302	4.79E-13
T	C	0.02	-0.8232484	0.1136386	5.84E-12
A	G	0.02	-0.8232484	0.1136386	5.84E-12
T	C	0.02	-0.8232484	0.1136386	5.84E-12
C	G	0.02	-0.8232484	0.1136386	5.84E-12
C	T	0.02	-0.8232484	0.1136386	5.84E-12
C	T	0.02	-0.8316447	0.1234477	1.14E-10
AG	A	0.02	-0.8232484	0.1136386	5.84E-12
T	A	0.02	-0.8232484	0.1136386	5.84E-12
A	G	0.02	-0.8232484	0.1136386	5.84E-12
T	TG	0.01	-0.7391142	0.123573	7.48E-09
A	G	0.02	-0.8614132	0.1069429	4.00E-14
A	AT	0.02	-0.8232484	0.1136386	5.84E-12
C	T	0.01	-0.9676346	0.1399551	3.55E-11
T	G	0.01	-0.9676346	0.1399551	3.55E-11
T	TC	0.01	-0.8316477	0.1208883	4.35E-11
A	G	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
A	T	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
C	T	0.01	-0.8316477	0.1208883	4.35E-11
C	T	0.01	-0.8316477	0.1208883	4.35E-11
T	C	0.01	-0.8316477	0.1208883	4.35E-11
C	G	0.01	-0.8316477	0.1208883	4.35E-11
G	C	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
T	C	0.01	-0.8316477	0.1208883	4.35E-11
AC	A	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
A	G	0.01	-0.8316477	0.1208883	4.35E-11
C	T	0.01	-0.8316477	0.1208883	4.35E-11
C	T	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.8316477	0.1208883	4.35E-11
G	A	0.01	-0.7882085	0.1258604	1.48E-09

G	A	0.01	-0.8316477	0.1208883	4.35E-11
G	T	0.01	-0.8316477	0.1208883	4.35E-11
A	T	0.01	-0.8268518	0.1364378	4.49E-09
G	A	0.01	-0.8316477	0.1208883	4.35E-11
A	G	0.01	-0.8316477	0.1208883	4.35E-11
T	C	0.02	-0.7755933	0.11835	2.88E-10
A	G	0.02	-0.7755933	0.11835	2.88E-10
T	C	0.02	-0.7755933	0.11835	2.88E-10
C	G	0.02	-0.7755933	0.11835	2.88E-10
C	T	0.02	-0.7755933	0.11835	2.88E-10
C	T	0.01	-0.8042742	0.1286168	1.56E-09
AG	A	0.02	-0.7755933	0.11835	2.88E-10
T	A	0.02	-0.7755933	0.11835	2.88E-10
A	G	0.02	-0.7755933	0.11835	2.88E-10
A	G	0.02	-0.8008533	0.111996	8.65E-12
A	AT	0.02	-0.7755933	0.11835	2.88E-10
CA	C	0.03	-0.5942575	0.0951415	1.65E-09
C	T	0.01	-0.9517126	0.154021	2.39E-09
T	G	0.01	-0.9517126	0.154021	2.39E-09
T	TC	0.02	-0.8581598	0.1326648	4.77E-10
A	G	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
A	T	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
C	T	0.02	-0.8581598	0.1326648	4.77E-10
C	T	0.02	-0.8581598	0.1326648	4.77E-10
T	C	0.02	-0.8581598	0.1326648	4.77E-10
C	G	0.02	-0.8581598	0.1326648	4.77E-10
G	C	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
T	C	0.02	-0.8581598	0.1326648	4.77E-10
AC	A	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
A	G	0.02	-0.8581598	0.1326648	4.77E-10
C	T	0.02	-0.8581598	0.1326648	4.77E-10
C	T	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.01	-0.8621931	0.1381743	1.71E-09
G	A	0.02	-0.8581598	0.1326648	4.77E-10
G	T	0.02	-0.8581598	0.1326648	4.77E-10
G	A	0.02	-0.8581598	0.1326648	4.77E-10
A	G	0.02	-0.8581598	0.1326648	4.77E-10
T	C	0.02	-0.7854925	0.1302036	5.29E-09
A	G	0.02	-0.7854925	0.1302036	5.29E-09
T	C	0.02	-0.7854925	0.1302036	5.29E-09
C	G	0.02	-0.7854925	0.1302036	5.29E-09
C	T	0.02	-0.7854925	0.1302036	5.29E-09
AG	A	0.02	-0.7854925	0.1302036	5.29E-09
T	A	0.02	-0.7854925	0.1302036	5.29E-09

A	G	0.02	-0.7854925	0.1302036	5.29E-09
A	G	0.02	-0.8513334	0.1226628	3.12E-11
A	AT	0.02	-0.7854925	0.1302036	5.29E-09
C	T	0.01	-1.050325	0.1615131	3.99E-10
T	G	0.01	-1.050325	0.1615131	3.99E-10
T	TC	0.02	-0.9603864	0.1389057	3.73E-11
A	G	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
A	T	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
C	T	0.02	-0.9603864	0.1389057	3.73E-11
C	T	0.02	-0.9603864	0.1389057	3.73E-11
T	C	0.02	-0.9603864	0.1389057	3.73E-11
C	G	0.02	-0.9603864	0.1389057	3.73E-11
G	C	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
T	C	0.02	-0.9603864	0.1389057	3.73E-11
AC	A	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
A	G	0.02	-0.9603864	0.1389057	3.73E-11
C	T	0.02	-0.9603864	0.1389057	3.73E-11
C	T	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.02	-0.9603864	0.1389057	3.73E-11
G	A	0.01	-0.9025571	0.1452428	2.00E-09
G	A	0.02	-0.9603864	0.1389057	3.73E-11
G	T	0.02	-0.9603864	0.1389057	3.73E-11
A	T	0.01	-0.9861883	0.1567753	1.31E-09
G	A	0.02	-0.9603864	0.1389057	3.73E-11
A	G	0.02	-0.9603864	0.1389057	3.73E-11
T	C	0.02	-0.8994282	0.136189	2.24E-10
A	G	0.02	-0.8994282	0.136189	2.24E-10
T	C	0.02	-0.8994282	0.136189	2.24E-10
C	G	0.02	-0.8994282	0.136189	2.24E-10
C	T	0.02	-0.8994282	0.136189	2.24E-10
C	T	0.02	-0.9013328	0.1474588	3.48E-09
AG	A	0.02	-0.8994282	0.136189	2.24E-10
T	A	0.02	-0.8994282	0.136189	2.24E-10
A	G	0.02	-0.8994282	0.136189	2.24E-10
T	TG	0.01	-0.8977176	0.1484959	5.01E-09
A	G	0.02	-0.9462629	0.1284024	2.44E-12
A	AT	0.02	-0.8994282	0.136189	2.24E-10
A	G	0.02	-0.6547133	0.1073798	3.65E-09
A	G	0.02	-0.7365302	0.119392	3.05E-09
C	T	0.01	-0.9513189	0.15961	8.20E-09
T	G	0.01	-0.9513189	0.15961	8.20E-09
A	G	0.02	-0.7880443	0.1314548	6.82E-09
C	T	0.01	-0.9028095	0.1337617	9.39E-11
T	G	0.01	-0.9028095	0.1337617	9.39E-11
T	TC	0.01	-0.7375462	0.1158398	8.33E-10

A	G	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
A	T	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
C	T	0.01	-0.7375462	0.1158398	8.33E-10
C	T	0.01	-0.7375462	0.1158398	8.33E-10
T	C	0.01	-0.7375462	0.1158398	8.33E-10
C	G	0.01	-0.7375462	0.1158398	8.33E-10
G	C	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
T	C	0.01	-0.7375462	0.1158398	8.33E-10
AC	A	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
A	G	0.01	-0.7375462	0.1158398	8.33E-10
C	T	0.01	-0.7375462	0.1158398	8.33E-10
C	T	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
G	T	0.01	-0.7375462	0.1158398	8.33E-10
G	A	0.01	-0.7375462	0.1158398	8.33E-10
A	G	0.01	-0.7375462	0.1158398	8.33E-10
T	C	0.02	-0.6782102	0.1136037	7.34E-09
A	G	0.02	-0.6782102	0.1136037	7.34E-09
T	C	0.02	-0.6782102	0.1136037	7.34E-09
C	G	0.02	-0.6782102	0.1136037	7.34E-09
C	T	0.02	-0.6782102	0.1136037	7.34E-09
AG	A	0.02	-0.6782102	0.1136037	7.34E-09
T	A	0.02	-0.6782102	0.1136037	7.34E-09
A	G	0.02	-0.6782102	0.1136037	7.34E-09
A	G	0.02	-0.7272637	0.1071565	7.55E-11
A	AT	0.02	-0.6782102	0.1136037	7.34E-09
C	T	0.01	-1.007051	0.1459753	3.85E-11
T	G	0.01	-1.007051	0.1459753	3.85E-11
T	TC	0.01	-0.8427905	0.1262604	1.42E-10
A	G	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
A	T	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
C	T	0.01	-0.8427905	0.1262604	1.42E-10
C	T	0.01	-0.8427905	0.1262604	1.42E-10
T	C	0.01	-0.8427905	0.1262604	1.42E-10
C	G	0.01	-0.8427905	0.1262604	1.42E-10
G	C	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
T	C	0.01	-0.8427905	0.1262604	1.42E-10
AC	A	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
A	G	0.01	-0.8427905	0.1262604	1.42E-10

C	T	0.01	-0.8427905	0.1262604	1.42E-10
C	T	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8218471	0.1315347	1.59E-09
G	A	0.01	-0.8427905	0.1262604	1.42E-10
G	T	0.01	-0.8427905	0.1262604	1.42E-10
G	A	0.01	-0.8427905	0.1262604	1.42E-10
A	G	0.01	-0.8427905	0.1262604	1.42E-10
T	C	0.02	-0.7977865	0.1236125	5.04E-10
A	G	0.02	-0.7977865	0.1236125	5.04E-10
T	C	0.02	-0.7977865	0.1236125	5.04E-10
C	G	0.02	-0.7977865	0.1236125	5.04E-10
C	T	0.02	-0.7977865	0.1236125	5.04E-10
C	T	0.01	-0.8144445	0.1339225	3.98E-09
AG	A	0.02	-0.7977865	0.1236125	5.04E-10
T	A	0.02	-0.7977865	0.1236125	5.04E-10
A	G	0.02	-0.7977865	0.1236125	5.04E-10
A	G	0.02	-0.8411202	0.1166674	6.01E-12
A	AT	0.02	-0.7977865	0.1236125	5.04E-10
T	TC	0.01	-0.82966	0.1372255	4.97E-09
A	G	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
A	T	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
C	T	0.01	-0.82966	0.1372255	4.97E-09
C	T	0.01	-0.82966	0.1372255	4.97E-09
T	C	0.01	-0.82966	0.1372255	4.97E-09
C	G	0.01	-0.82966	0.1372255	4.97E-09
G	C	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
T	C	0.01	-0.82966	0.1372255	4.97E-09
AC	A	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
A	G	0.01	-0.82966	0.1372255	4.97E-09
C	T	0.01	-0.82966	0.1372255	4.97E-09
C	T	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
GTAGAATGAGTTAAC	T	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
G	T	0.01	-0.82966	0.1372255	4.97E-09
G	A	0.01	-0.82966	0.1372255	4.97E-09
A	G	0.01	-0.82966	0.1372255	4.97E-09
A	G	0.02	-0.8036788	0.1240459	4.54E-10
T	A	0.04	-0.5658484	0.09327491	4.32E-09
A	G	0.02	-0.8750262	0.1424837	2.93E-09
C	T	0.01	-0.8653537	0.1422394	3.92E-09
T	G	0.01	-0.8653537	0.1422394	3.92E-09
T	TC	0.01	-0.7403256	0.1228159	5.31E-09
A	G	0.01	-0.7403256	0.1228159	5.31E-09

G	A	0.01	-0.7403256	0.1228159	5.31E-09
A	T	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
C	T	0.01	-0.7403256	0.1228159	5.31E-09
C	T	0.01	-0.7403256	0.1228159	5.31E-09
T	C	0.01	-0.7403256	0.1228159	5.31E-09
C	G	0.01	-0.7403256	0.1228159	5.31E-09
G	C	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
T	C	0.01	-0.7403256	0.1228159	5.31E-09
AC	A	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
A	G	0.01	-0.7403256	0.1228159	5.31E-09
C	T	0.01	-0.7403256	0.1228159	5.31E-09
C	T	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
G	T	0.01	-0.7403256	0.1228159	5.31E-09
G	A	0.01	-0.7403256	0.1228159	5.31E-09
A	G	0.01	-0.7403256	0.1228159	5.31E-09
T	C	0.02	-0.7199202	0.1201231	6.41E-09
A	G	0.02	-0.7199202	0.1201231	6.41E-09
T	C	0.02	-0.7199202	0.1201231	6.41E-09
C	G	0.02	-0.7199202	0.1201231	6.41E-09
C	T	0.02	-0.7199202	0.1201231	6.41E-09
AG	A	0.02	-0.7199202	0.1201231	6.41E-09
T	A	0.02	-0.7199202	0.1201231	6.41E-09
A	G	0.02	-0.7199202	0.1201231	6.41E-09
A	G	0.02	-0.7394465	0.1135479	3.61E-10
A	AT	0.02	-0.7199202	0.1201231	6.41E-09
A	T	0.01	-0.8158984	0.1342227	4.24E-09
T	TG	0.01	-0.7738595	0.1304441	9.28E-09
A	G	0.02	-0.6951179	0.1164195	7.57E-09
C	T	0.05	-0.4862679	0.08153349	7.50E-09
C	T	0.05	-0.4862679	0.08153349	7.50E-09
C	T	0.01	-0.9369357	0.1528699	3.07E-09
T	G	0.01	-0.9369357	0.1528699	3.07E-09
T	TC	0.01	-0.8087833	0.131911	3.03E-09
A	G	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
A	T	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
C	T	0.01	-0.8087833	0.131911	3.03E-09
C	T	0.01	-0.8087833	0.131911	3.03E-09
T	C	0.01	-0.8087833	0.131911	3.03E-09
C	G	0.01	-0.8087833	0.131911	3.03E-09
G	C	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09

T	C	0.01	-0.8087833	0.131911	3.03E-09
AC	A	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
A	G	0.01	-0.8087833	0.131911	3.03E-09
C	T	0.01	-0.8087833	0.131911	3.03E-09
C	T	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8249063	0.1373947	6.05E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
G	T	0.01	-0.8087833	0.131911	3.03E-09
G	A	0.01	-0.8087833	0.131911	3.03E-09
A	G	0.01	-0.8087833	0.131911	3.03E-09
A	G	0.02	-0.7427701	0.1224809	4.36E-09
A	G	0.02	-0.8380668	0.136521	3.51E-09
T	TC	0.01	-0.8610048	0.1230137	2.18E-11
A	G	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
A	T	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
C	T	0.01	-0.8610048	0.1230137	2.18E-11
C	T	0.01	-0.8610048	0.1230137	2.18E-11
T	C	0.01	-0.8610048	0.1230137	2.18E-11
C	G	0.01	-0.8610048	0.1230137	2.18E-11
G	C	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
T	C	0.01	-0.8610048	0.1230137	2.18E-11
AC	A	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
A	G	0.01	-0.8610048	0.1230137	2.18E-11
C	T	0.01	-0.8610048	0.1230137	2.18E-11
C	T	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8250935	0.1287348	6.59E-10
G	A	0.01	-0.8610048	0.1230137	2.18E-11
G	T	0.01	-0.8610048	0.1230137	2.18E-11
G	A	0.01	-0.8610048	0.1230137	2.18E-11
A	G	0.01	-0.8610048	0.1230137	2.18E-11
T	C	0.01	-0.8154376	0.1203531	8.12E-11
A	G	0.01	-0.8154376	0.1203531	8.12E-11
T	C	0.01	-0.8154376	0.1203531	8.12E-11
C	G	0.01	-0.8154376	0.1203531	8.12E-11
C	T	0.01	-0.8154376	0.1203531	8.12E-11
C	T	0.01	-0.8344363	0.1307738	7.74E-10
AG	A	0.01	-0.8154376	0.1203531	8.12E-11
T	A	0.01	-0.8154376	0.1203531	8.12E-11
A	G	0.01	-0.8154376	0.1203531	8.12E-11
G	A	0.02	-0.6477915	0.1072463	5.05E-09
A	G	0.02	-0.8309116	0.1134419	3.07E-12
A	AT	0.01	-0.8154376	0.1203531	8.12E-11

C	T	0.01	-1.116623	0.1515676	2.29E-12
T	G	0.01	-1.116623	0.1515676	2.29E-12
T	TC	0.01	-0.9146552	0.1313702	2.64E-11
A	G	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
A	T	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
C	T	0.01	-0.9146552	0.1313702	2.64E-11
C	T	0.01	-0.9146552	0.1313702	2.64E-11
T	C	0.01	-0.9146552	0.1313702	2.64E-11
C	G	0.01	-0.9146552	0.1313702	2.64E-11
G	C	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
T	C	0.01	-0.9146552	0.1313702	2.64E-11
AC	A	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
A	G	0.01	-0.9146552	0.1313702	2.64E-11
C	T	0.01	-0.9146552	0.1313702	2.64E-11
C	T	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9146552	0.1313702	2.64E-11
G	A	0.01	-0.9068047	0.1364565	1.68E-10
G	A	0.01	-0.9146552	0.1313702	2.64E-11
G	T	0.01	-0.9146552	0.1313702	2.64E-11
A	T	0.01	-0.8929408	0.1484384	5.68E-09
G	A	0.01	-0.9146552	0.1313702	2.64E-11
A	G	0.01	-0.9146552	0.1313702	2.64E-11
T	C	0.02	-0.8554413	0.1286052	1.62E-10
A	G	0.02	-0.8554413	0.1286052	1.62E-10
T	C	0.02	-0.8554413	0.1286052	1.62E-10
C	G	0.02	-0.8554413	0.1286052	1.62E-10
C	T	0.02	-0.8554413	0.1286052	1.62E-10
C	T	0.01	-0.882221	0.1397753	1.12E-09
AG	A	0.02	-0.8554413	0.1286052	1.62E-10
T	A	0.02	-0.8554413	0.1286052	1.62E-10
A	G	0.02	-0.8554413	0.1286052	1.62E-10
A	G	0.02	-0.9102986	0.1214009	1.02E-12
A	AT	0.02	-0.8554413	0.1286052	1.62E-10
T	TC	0.01	-0.9035578	0.1468399	3.12E-09
A	G	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
A	T	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
C	T	0.01	-0.9035578	0.1468399	3.12E-09
C	T	0.01	-0.9035578	0.1468399	3.12E-09
T	C	0.01	-0.9035578	0.1468399	3.12E-09
C	G	0.01	-0.9035578	0.1468399	3.12E-09
G	C	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09

T	C	0.01	-0.9035578	0.1468399	3.12E-09
AC	A	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
A	G	0.01	-0.9035578	0.1468399	3.12E-09
C	T	0.01	-0.9035578	0.1468399	3.12E-09
C	T	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
G	T	0.01	-0.9035578	0.1468399	3.12E-09
G	A	0.01	-0.9035578	0.1468399	3.12E-09
A	G	0.01	-0.9035578	0.1468399	3.12E-09
A	G	0.02	-0.88328	0.1332674	2.28E-10
A	G	0.02	-0.8629664	0.1372247	1.27E-09
C	T	0.01	-0.8870063	0.1334755	1.69E-10
T	G	0.01	-0.8870063	0.1334755	1.69E-10
T	TC	0.01	-0.7838773	0.1150214	6.33E-11
A	G	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
A	T	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
C	T	0.01	-0.7838773	0.1150214	6.33E-11
C	T	0.01	-0.7838773	0.1150214	6.33E-11
T	C	0.01	-0.7838773	0.1150214	6.33E-11
C	G	0.01	-0.7838773	0.1150214	6.33E-11
G	C	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
T	C	0.01	-0.7838773	0.1150214	6.33E-11
AC	A	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
A	G	0.01	-0.7838773	0.1150214	6.33E-11
C	T	0.01	-0.7838773	0.1150214	6.33E-11
C	T	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7657587	0.1200593	7.75E-10
G	A	0.01	-0.7838773	0.1150214	6.33E-11
G	T	0.01	-0.7838773	0.1150214	6.33E-11
G	A	0.01	-0.7838773	0.1150214	6.33E-11
A	G	0.01	-0.7838773	0.1150214	6.33E-11
T	C	0.02	-0.7376486	0.1127449	3.06E-10
A	G	0.02	-0.7376486	0.1127449	3.06E-10
T	C	0.02	-0.7376486	0.1127449	3.06E-10
C	G	0.02	-0.7376486	0.1127449	3.06E-10
C	T	0.02	-0.7376486	0.1127449	3.06E-10
C	T	0.01	-0.7551314	0.1218014	2.09E-09
AG	A	0.02	-0.7376486	0.1127449	3.06E-10
T	A	0.02	-0.7376486	0.1127449	3.06E-10
A	G	0.02	-0.7376486	0.1127449	3.06E-10
A	G	0.02	-0.7804233	0.1062432	2.64E-12
A	AT	0.02	-0.7376486	0.1127449	3.06E-10

A	G	0.02	-0.7133291	0.1196442	7.57E-09
C	T	0.01	-0.8870042	0.1448967	3.20E-09
T	G	0.01	-0.8870042	0.1448967	3.20E-09
T	TC	0.01	-0.7825217	0.1249497	1.47E-09
A	G	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
A	T	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
C	T	0.01	-0.7825217	0.1249497	1.47E-09
C	T	0.01	-0.7825217	0.1249497	1.47E-09
T	C	0.01	-0.7825217	0.1249497	1.47E-09
C	G	0.01	-0.7825217	0.1249497	1.47E-09
G	C	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
T	C	0.01	-0.7825217	0.1249497	1.47E-09
AC	A	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
A	G	0.01	-0.7825217	0.1249497	1.47E-09
C	T	0.01	-0.7825217	0.1249497	1.47E-09
C	T	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
G	T	0.01	-0.7825217	0.1249497	1.47E-09
G	A	0.01	-0.7825217	0.1249497	1.47E-09
A	G	0.01	-0.7825217	0.1249497	1.47E-09
A	G	0.02	-0.7544913	0.1157685	3.52E-10
A	G	0.02	-0.7774453	0.1272958	3.74E-09
C	T	0.01	-1.046255	0.1436565	3.87E-12
T	G	0.01	-1.046255	0.1436565	3.87E-12
T	TC	0.01	-0.916661	0.123914	1.92E-12
A	G	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
A	T	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
C	T	0.01	-0.916661	0.123914	1.92E-12
C	T	0.01	-0.916661	0.123914	1.92E-12
T	C	0.01	-0.916661	0.123914	1.92E-12
C	G	0.01	-0.916661	0.123914	1.92E-12
G	C	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
T	C	0.01	-0.916661	0.123914	1.92E-12
AC	A	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
A	G	0.01	-0.916661	0.123914	1.92E-12
C	T	0.01	-0.916661	0.123914	1.92E-12
C	T	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.916661	0.123914	1.92E-12
G	A	0.01	-0.8999606	0.1288847	2.36E-11

G	A	0.01	-0.916661	0.123914	1.92E-12
G	T	0.01	-0.916661	0.123914	1.92E-12
A	T	0.01	-0.9441728	0.1397283	8.87E-11
G	A	0.01	-0.916661	0.123914	1.92E-12
A	G	0.01	-0.916661	0.123914	1.92E-12
T	C	0.02	-0.8504931	0.1214356	2.08E-11
A	G	0.02	-0.8504931	0.1214356	2.08E-11
T	C	0.02	-0.8504931	0.1214356	2.08E-11
C	G	0.02	-0.8504931	0.1214356	2.08E-11
C	T	0.02	-0.8504931	0.1214356	2.08E-11
C	T	0.01	-0.8543872	0.1321608	4.76E-10
AG	A	0.02	-0.8504931	0.1214356	2.08E-11
T	A	0.02	-0.8504931	0.1214356	2.08E-11
A	G	0.02	-0.8504931	0.1214356	2.08E-11
T	TG	0.01	-0.854987	0.1319771	4.41E-10
A	G	0.02	-0.8648098	0.1149382	8.80E-13
A	AT	0.02	-0.8504931	0.1214356	2.08E-11
A	G	0.01	-0.990267	0.1585539	1.95E-09
C	A	0.01	-0.990267	0.1585539	1.95E-09
G	A	0.01	-0.9737288	0.1546546	1.48E-09
C	T	0.01	-1.000444	0.1486511	1.33E-10
T	G	0.01	-1.000444	0.1486511	1.33E-10
T	TC	0.02	-0.8481151	0.1341089	1.28E-09
A	G	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
A	T	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
C	T	0.02	-0.8481151	0.1341089	1.28E-09
C	T	0.02	-0.8481151	0.1341089	1.28E-09
T	C	0.02	-0.8481151	0.1341089	1.28E-09
C	G	0.02	-0.8481151	0.1341089	1.28E-09
G	C	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
T	C	0.02	-0.8481151	0.1341089	1.28E-09
AC	A	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
A	G	0.02	-0.8481151	0.1341089	1.28E-09
C	T	0.02	-0.8481151	0.1341089	1.28E-09
C	T	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
G	T	0.02	-0.8481151	0.1341089	1.28E-09
G	A	0.02	-0.8481151	0.1341089	1.28E-09
A	G	0.02	-0.8481151	0.1341089	1.28E-09
T	C	0.02	-0.7958529	0.1313397	5.31E-09
A	G	0.02	-0.7958529	0.1313397	5.31E-09
T	C	0.02	-0.7958529	0.1313397	5.31E-09
C	G	0.02	-0.7958529	0.1313397	5.31E-09
C	T	0.02	-0.7958529	0.1313397	5.31E-09

AG	A	0.02	-0.7958529	0.1313397	5.31E-09
T	A	0.02	-0.7958529	0.1313397	5.31E-09
A	G	0.02	-0.7958529	0.1313397	5.31E-09
A	G	0.02	-0.8068015	0.1254512	7.09E-10
A	AT	0.02	-0.7958529	0.1313397	5.31E-09
G	A	0.01	-0.8905126	0.1499018	9.14E-09
A	C	0.01	-0.8905126	0.1499018	9.14E-09
C	T	0.01	-0.8905126	0.1499018	9.14E-09
A	G	0.02	-0.7052093	0.1073289	2.88E-10
C	T	0.01	-1.095341	0.1624138	1.18E-10
T	G	0.01	-1.095341	0.1624138	1.18E-10
T	TC	0.02	-0.9758667	0.1428178	7.13E-11
A	G	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
A	T	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
C	T	0.02	-0.9758667	0.1428178	7.13E-11
C	T	0.02	-0.9758667	0.1428178	7.13E-11
T	C	0.02	-0.9758667	0.1428178	7.13E-11
C	G	0.02	-0.9758667	0.1428178	7.13E-11
G	C	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
T	C	0.02	-0.9758667	0.1428178	7.13E-11
AC	A	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
A	G	0.02	-0.9758667	0.1428178	7.13E-11
C	T	0.02	-0.9758667	0.1428178	7.13E-11
C	T	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.02	-0.9758667	0.1428178	7.13E-11
G	A	0.01	-0.9968089	0.1488953	1.57E-10
G	A	0.02	-0.9758667	0.1428178	7.13E-11
G	T	0.02	-0.9758667	0.1428178	7.13E-11
A	T	0.01	-0.9727947	0.1636883	9.61E-09
G	A	0.02	-0.9758667	0.1428178	7.13E-11
A	G	0.02	-0.9758667	0.1428178	7.13E-11
T	C	0.02	-0.9354593	0.1394743	1.46E-10
A	G	0.02	-0.9354593	0.1394743	1.46E-10
T	C	0.02	-0.9354593	0.1394743	1.46E-10
C	G	0.02	-0.9354593	0.1394743	1.46E-10
C	T	0.02	-0.9354593	0.1394743	1.46E-10
C	T	0.02	-0.9744214	0.1521828	8.03E-10
AG	A	0.02	-0.9354593	0.1394743	1.46E-10
T	A	0.02	-0.9354593	0.1394743	1.46E-10
A	G	0.02	-0.9354593	0.1394743	1.46E-10
A	G	0.02	-0.9429953	0.1314649	9.86E-12
A	AT	0.02	-0.9354593	0.1394743	1.46E-10
C	T	0.01	-0.8820409	0.1411658	1.62E-09
T	G	0.01	-0.8820409	0.1411658	1.62E-09
T	TC	0.01	-0.8101691	0.1214535	1.49E-10

A	G	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
A	T	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
C	T	0.01	-0.8101691	0.1214535	1.49E-10
C	T	0.01	-0.8101691	0.1214535	1.49E-10
T	C	0.01	-0.8101691	0.1214535	1.49E-10
C	G	0.01	-0.8101691	0.1214535	1.49E-10
G	C	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
T	C	0.01	-0.8101691	0.1214535	1.49E-10
AC	A	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
A	G	0.01	-0.8101691	0.1214535	1.49E-10
C	T	0.01	-0.8101691	0.1214535	1.49E-10
C	T	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
G	A	0.01	-0.804914	0.1266203	8.86E-10
G	A	0.01	-0.8101691	0.1214535	1.49E-10
G	T	0.01	-0.8101691	0.1214535	1.49E-10
A	T	0.01	-0.8429193	0.1371323	2.83E-09
G	A	0.01	-0.8101691	0.1214535	1.49E-10
A	G	0.01	-0.8101691	0.1214535	1.49E-10
T	C	0.02	-0.7688882	0.1189928	4.92E-10
A	G	0.02	-0.7688882	0.1189928	4.92E-10
T	C	0.02	-0.7688882	0.1189928	4.92E-10
C	G	0.02	-0.7688882	0.1189928	4.92E-10
C	T	0.02	-0.7688882	0.1189928	4.92E-10
C	T	0.01	-0.7733303	0.1286451	5.91E-09
AG	A	0.02	-0.7688882	0.1189928	4.92E-10
T	A	0.02	-0.7688882	0.1189928	4.92E-10
A	G	0.02	-0.7688882	0.1189928	4.92E-10
A	G	0.02	-0.8454988	0.1118341	7.23E-13
A	AT	0.02	-0.7688882	0.1189928	4.92E-10
C	T	0.01	-1.025336	0.1570457	3.32E-10
T	G	0.01	-1.025336	0.1570457	3.32E-10
T	TC	0.01	-0.8849878	0.1356442	3.41E-10
A	G	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
A	T	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
C	T	0.01	-0.8849878	0.1356442	3.41E-10
C	T	0.01	-0.8849878	0.1356442	3.41E-10
T	C	0.01	-0.8849878	0.1356442	3.41E-10
C	G	0.01	-0.8849878	0.1356442	3.41E-10
G	C	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
T	C	0.01	-0.8849878	0.1356442	3.41E-10

AC	A	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
A	G	0.01	-0.8849878	0.1356442	3.41E-10
C	T	0.01	-0.8849878	0.1356442	3.41E-10
C	T	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
G	T	0.01	-0.8849878	0.1356442	3.41E-10
G	A	0.01	-0.8849878	0.1356442	3.41E-10
A	G	0.01	-0.8849878	0.1356442	3.41E-10
T	C	0.02	-0.822503	0.1327008	2.12E-09
A	G	0.02	-0.822503	0.1327008	2.12E-09
T	C	0.02	-0.822503	0.1327008	2.12E-09
C	G	0.02	-0.822503	0.1327008	2.12E-09
C	T	0.02	-0.822503	0.1327008	2.12E-09
AG	A	0.02	-0.822503	0.1327008	2.12E-09
T	A	0.02	-0.822503	0.1327008	2.12E-09
A	G	0.02	-0.822503	0.1327008	2.12E-09
A	G	0.02	-0.8858094	0.1253889	1.46E-11
A	AT	0.02	-0.822503	0.1327008	2.12E-09
C	T	0.01	-1.001231	0.1652267	4.46E-09
T	G	0.01	-1.001231	0.1652267	4.46E-09
T	TC	0.01	-0.8855837	0.1424268	1.88E-09
A	G	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
A	T	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
C	T	0.01	-0.8855837	0.1424268	1.88E-09
C	T	0.01	-0.8855837	0.1424268	1.88E-09
T	C	0.01	-0.8855837	0.1424268	1.88E-09
C	G	0.01	-0.8855837	0.1424268	1.88E-09
G	C	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
T	C	0.01	-0.8855837	0.1424268	1.88E-09
AC	A	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
A	G	0.01	-0.8855837	0.1424268	1.88E-09
C	T	0.01	-0.8855837	0.1424268	1.88E-09
C	T	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8799484	0.1483802	8.97E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
G	T	0.01	-0.8855837	0.1424268	1.88E-09
G	A	0.01	-0.8855837	0.1424268	1.88E-09
A	G	0.01	-0.8855837	0.1424268	1.88E-09
T	C	0.02	-0.8517911	0.1393724	3.37E-09
A	G	0.02	-0.8517911	0.1393724	3.37E-09
T	C	0.02	-0.8517911	0.1393724	3.37E-09
C	G	0.02	-0.8517911	0.1393724	3.37E-09

C	T	0.02	-0.8517911	0.1393724	3.37E-09
AG	A	0.02	-0.8517911	0.1393724	3.37E-09
T	A	0.02	-0.8517911	0.1393724	3.37E-09
A	G	0.02	-0.8517911	0.1393724	3.37E-09
A	G	0.02	-0.9123245	0.1313933	2.94E-11
A	AT	0.02	-0.8517911	0.1393724	3.37E-09
C	T	0.01	-0.8125029	0.1300916	1.62E-09
T	G	0.01	-0.8125029	0.1300916	1.62E-09
T	TC	0.01	-0.6985716	0.1123097	1.87E-09
A	G	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
A	T	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
C	T	0.01	-0.6985716	0.1123097	1.87E-09
C	T	0.01	-0.6985716	0.1123097	1.87E-09
T	C	0.01	-0.6985716	0.1123097	1.87E-09
C	G	0.01	-0.6985716	0.1123097	1.87E-09
G	C	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
T	C	0.01	-0.6985716	0.1123097	1.87E-09
AC	A	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
A	G	0.01	-0.6985716	0.1123097	1.87E-09
C	T	0.01	-0.6985716	0.1123097	1.87E-09
C	T	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
G	T	0.01	-0.6985716	0.1123097	1.87E-09
G	A	0.01	-0.6985716	0.1123097	1.87E-09
A	G	0.01	-0.6985716	0.1123097	1.87E-09
T	C	0.02	-0.6832698	0.1097951	1.84E-09
A	G	0.02	-0.6832698	0.1097951	1.84E-09
T	C	0.02	-0.6832698	0.1097951	1.84E-09
C	G	0.02	-0.6832698	0.1097951	1.84E-09
C	T	0.02	-0.6832698	0.1097951	1.84E-09
C	T	0.01	-0.704448	0.1186687	8.75E-09
AG	A	0.02	-0.6832698	0.1097951	1.84E-09
T	A	0.02	-0.6832698	0.1097951	1.84E-09
A	G	0.02	-0.6832698	0.1097951	1.84E-09
A	G	0.02	-0.706118	0.1037398	6.67E-11
A	AT	0.02	-0.6832698	0.1097951	1.84E-09
A	G	0.02	-0.8675725	0.1434803	4.95E-09
G	A	0.1	-0.2756795	0.0458535	5.91E-09
C	CA	0.01	-0.7929301	0.1278183	2.08E-09
GGTGTGTGTGTGT	G	0.01	-1.149461	0.1854722	2.12E-09
C	T	0.01	-1.088382	0.183154	8.45E-09
A	G	0.01	-0.7622745	0.1269708	7.16E-09
T	A	0.01	-0.7622745	0.1269708	7.16E-09
T	C	0.01	-0.7622745	0.1269708	7.16E-09

C	T	0.01	-0.7622745	0.1269708	7.16E-09
C	A	0.01	-0.7622745	0.1269708	7.16E-09
C	A	0.01	-0.7638426	0.1276689	7.19E-09
C	T	0.07	0.2856057	0.04757404	6.45E-09
T	G	0.06	0.30543	0.05141252	9.01E-09
T	TG	0.06	0.3111826	0.05209353	7.56E-09
AC	A	0.07	0.3085728	0.05182205	8.37E-09
G	A	0.07	0.3085728	0.05182205	8.37E-09
A	G	0.08	-0.2784403	0.04540395	3.22E-09
T	C	0.08	-0.2784403	0.04540395	3.22E-09
C	T	0.08	-0.2816054	0.04576614	2.88E-09
T	C	0.08	-0.271813	0.04492275	5.01E-09
T	C	0.08	-0.2702527	0.04487452	5.83E-09
AT	A	0.08	-0.2757682	0.04629179	8.27E-09
C	T	0.08	-0.2785596	0.04615702	5.45E-09
T	A	0.02	-0.613351	0.1017038	5.63E-09
G	GA	0.02	-0.7437999	0.1225197	4.57E-09
A	G	0.02	-0.7437999	0.1225197	4.57E-09
C	T	0.02	-0.7437999	0.1225197	4.57E-09
C	G	0.02	-0.7437999	0.1225197	4.57E-09
G	A	0.02	-0.7437999	0.1225197	4.57E-09
T	G	0.02	-0.7437999	0.1225197	4.57E-09
T	C	0.02	-0.7437999	0.1225197	4.57E-09
G	C	0.02	-0.7437999	0.1225197	4.57E-09
G	A	0.02	-0.7437999	0.1225197	4.57E-09
A	G	0.02	-0.7437999	0.1225197	4.57E-09
T	C	0.02	-0.7401929	0.1245849	9.13E-09
G	A	0.02	-0.5262046	0.08147987	5.37E-10
A	G	0.03	-0.4039077	0.0659799	3.43E-09
T	C	0.37	-0.1648459	0.02758116	7.67E-09
C	T	0.03	-0.3270358	0.0532732	3.12E-09
T	C	0.05	-0.4842423	0.07890059	3.20E-09
T	C	0.02	-0.5007589	0.07757792	5.43E-10
A	G	0.02	-0.5007589	0.07757792	5.43E-10
G	A	0.01	-0.6038091	0.09934663	4.23E-09
C	T	0.01	-0.6038091	0.09934663	4.23E-09
C	T	0.01	1.146362	0.2496654	6.44E-06
G	GGTGT	0.01	1.0601	0.2342055	8.59E-06
G	A	0.03	0.7110055	0.1516	4.14E-06
C	T	0.02	1.008097	0.213754	3.68E-06
T	TTA	0.01	1.15228	0.2357327	1.67E-06
G	A	0.02	0.9498819	0.1999808	3.16E-06
C	T	0.01	0.9971795	0.2159139	5.71E-06
C	T	0.01	1.088954	0.2308646	3.67E-06
A	C	0.02	0.8718831	0.1881454	5.33E-06
G	A	0.33	0.2624925	0.0477945	8.87E-08
G	A	0.01	1.055953	0.2315934	7.42E-06
G	T	0.01	1.021552	0.2247108	7.87E-06
G	C	0.01	1.021552	0.2247108	7.87E-06
GA	G	0.01	1.021552	0.2247108	7.87E-06

A	C	0.01	1.021552	0.2247108	7.87E-06
G	A	0.01	1.055953	0.2315934	7.42E-06
C	T	0.01	1.021552	0.2247108	7.87E-06
A	ATATTT	0.01	1.021552	0.2247108	7.87E-06
A	C	0.01	1.021552	0.2247108	7.87E-06
G	A	0.01	1.021552	0.2247108	7.87E-06
C	T	0.02	0.9442502	0.1973204	2.69E-06
G	A	0.02	1.04327	0.2098679	1.13E-06
A	G	0.02	0.8120221	0.1781557	7.47E-06
C	CTGTGTGTGTGTGTG	0.01	1.167117	0.2191237	2.04E-07
GCA	G	0.01	1.046538	0.217967	2.50E-06
C	T	0.18	0.2975364	0.0653753	7.70E-06
C	T	0.01	1.33867	0.2676136	9.78E-07
C	T	0.01	1.560885	0.2651481	1.14E-08
C	A	0.01	1.33867	0.2676136	9.78E-07
T	C	0.03	0.8401089	0.1624243	4.33E-07
C	T	0.02	1.067593	0.1987059	1.62E-07
A	C	0.01	1.237067	0.2700584	6.75E-06
C	CT	0.05	0.5446962	0.1182297	6.01E-06
TAA	T	0.02	0.6777913	0.1497819	8.63E-06
T	TTAAAAA	0.12	0.3382234	0.07402537	7.11E-06
C	T	0.03	0.7168558	0.1423927	8.40E-07
A	G	0.04	0.5995938	0.1309531	6.82E-06
A	AT	0.04	0.5995938	0.1309531	6.82E-06
G	A	0.05	0.5767039	0.1256988	6.54E-06
G	A	0.04	0.6016845	0.1311307	6.53E-06
C	G	0.04	0.6016845	0.1311307	6.53E-06
G	A	0.04	0.6016845	0.1311307	6.53E-06
C	A	0.04	0.6016845	0.1311307	6.53E-06
C	A	0.04	0.5846671	0.1297495	9.38E-06
TG	T	0.04	0.6164846	0.1311153	3.93E-06
C	G	0.04	0.6149202	0.132169	4.90E-06
G	C	0.04	0.6164846	0.1311153	3.93E-06
A	T	0.04	0.61815	0.1326843	4.77E-06
C	T	0.04	0.61815	0.1326843	4.77E-06
G	GC	0.04	0.61815	0.1326843	4.77E-06
G	C	0.04	0.600539	0.1312995	6.96E-06
A	AG	0.04	0.600539	0.1312995	6.96E-06
G	A	0.04	0.600539	0.1312995	6.96E-06
G	A	0.04	0.600539	0.1312995	6.96E-06
C	T	0.04	0.6321425	0.1324631	2.85E-06
C	T	0.04	0.6321425	0.1324631	2.85E-06
C	T	0.04	0.6321425	0.1324631	2.85E-06
T	C	0.04	0.6441948	0.1333633	2.18E-06
AT	A	0.13	0.3712846	0.07977746	4.87E-06
CGT	C	0.01	1.211216	0.2395471	7.57E-07
C	CATAT	0.04	0.5703657	0.1266164	9.44E-06
T	C	0.02	0.7865893	0.1662452	3.43E-06
C	T	0.03	0.7723857	0.1640581	3.82E-06
T	C	0.03	0.7723857	0.1640581	3.82E-06

C	T	0.03	0.7723857	0.1640581	3.82E-06
A	C	0.01	1.05442	0.2327884	8.47E-06
G	A	0.02	0.8442203	0.1789619	3.66E-06
TGG	T	0.02	0.8442203	0.1789619	3.66E-06
AACAC	A	0.03	0.7833558	0.1474926	2.19E-07
C	TCTTCTTTCTTTCTTT	0.03	0.716681	0.1578401	8.07E-06
A	G	0.01	1.18658	0.2598363	7.19E-06
A	G	0.02	0.8853718	0.1770558	9.86E-07
T	TA	0.01	0.9421121	0.2057349	6.80E-06
G	A	0.01	1.054881	0.2286433	5.84E-06
T	TTTTTTG	0.01	1.143784	0.2398292	2.89E-06
TTG	T	0.31	0.2633411	0.05722321	6.15E-06
C	T	0.02	1.017194	0.2062204	1.36E-06
A	G	0.01	1.039916	0.2221227	4.30E-06
C	G	0.02	1.053354	0.1962984	1.67E-07
C	T	0.02	1.053354	0.1962984	1.67E-07
T	C	0.02	1.053354	0.1962984	1.67E-07
T	C	0.02	1.053354	0.1962984	1.67E-07
G	A	0.02	1.053354	0.1962984	1.67E-07
A	C	0.02	1.053354	0.1962984	1.67E-07
G	A	0.02	1.053354	0.1962984	1.67E-07
G	A	0.02	1.053354	0.1962984	1.67E-07
G	A	0.02	1.053354	0.1962984	1.67E-07
G	A	0.02	1.053354	0.1962984	1.67E-07
A	C	0.02	1.053354	0.1962984	1.67E-07
G	A	0.01	1.152721	0.2222266	4.03E-07
C	A	0.02	0.9540556	0.2117767	9.43E-06
G	A	0.02	0.9768087	0.1984948	1.43E-06
C	T	0.01	1.16025	0.2540674	7.19E-06
A	G	0.01	1.206262	0.2666709	8.70E-06
G	A	0.01	1.333596	0.2626703	6.85E-07
A	T	0.01	1.062495	0.2276569	4.59E-06
G	A	0.03	0.7151121	0.1529085	4.40E-06
G	A	0.03	0.7120964	0.153515	5.22E-06
A	G	0.01	1.320842	0.2457858	1.61E-07
T	C	0.08	0.4018003	0.0893036	9.67E-06
A	T	0.01	1.11762	0.2367875	3.62E-06
CGTTAA	C	0.01	1.11762	0.2367875	3.62E-06
C	A	0.01	1.11762	0.2367875	3.62E-06
TAGATAGATAGAC	T	0.01	1.194413	0.2478108	2.29E-06
A	G	0.01	1.164788	0.2495763	4.59E-06
AAC	A	0.06	0.5330657	0.1088483	1.60E-06
T	C	0.02	0.9399613	0.1907287	1.39E-06
G	A	0.01	1.311998	0.2270146	2.02E-08
G	GA	0.03	0.7169716	0.1586829	8.90E-06
T	C	0.01	1.001383	0.2209078	8.34E-06
A	G	0.02	0.8717591	0.188653	5.65E-06
G	A	0.02	0.9287806	0.1901838	1.71E-06
G	A	0.02	1.040091	0.2203173	3.60E-06

G	A	0.43	-0.2259219	0.05027791	9.92E-06
G	A	0.04	0.7488764	0.1484136	7.95E-07
TTTTG	T	0.04	0.7488764	0.1484136	7.95E-07
C	T	0.04	0.6501963	0.1426636	7.48E-06
TG	T	0.02	0.8761399	0.1928524	7.98E-06
T	A	0.02	0.9922493	0.1889268	2.94E-07
GTGTCTATA	G	0.01	1.303464	0.2288674	3.13E-08
C	A	0.02	0.9783617	0.1887074	4.08E-07
C	T	0.01	1.166886	0.2278884	5.57E-07
G	A	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.169645	0.2408265	1.93E-06
T	A	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.122294	0.212803	2.64E-07
AT	A	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.122294	0.212803	2.64E-07
T	C	0.01	1.169645	0.2408265	1.93E-06
A	G	0.01	1.122294	0.212803	2.64E-07
G	T	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.122294	0.212803	2.64E-07
TA	T	0.01	1.122294	0.212803	2.64E-07
C	T	0.01	1.122294	0.212803	2.64E-07
T	C	0.02	0.8462726	0.1819509	4.94E-06
A	G	0.02	0.9825704	0.1788911	8.85E-08
G	T	0.02	0.9825704	0.1788911	8.85E-08
C	T	0.02	1.0192	0.1834607	6.43E-08
TTA	T	0.01	1.158286	0.2448024	3.43E-06
GAC	G	0.01	0.9783393	0.2136614	6.81E-06
C	T	0.12	0.3745252	0.07933864	3.61E-06
T	G	0.12	0.3540982	0.07853026	9.26E-06
G	A	0.13	0.3429373	0.07597916	9.08E-06
A	G	0.13	0.3483351	0.07621027	7.06E-06
T	G	0.02	1.056113	0.1942797	1.18E-07
T	C	0.01	1.232715	0.2622231	3.94E-06
T	C	0.01	1.021576	0.2255658	8.49E-06
C	A	0.01	1.021576	0.2255658	8.49E-06
C	A	0.01	1.021576	0.2255658	8.49E-06
A	G	0.01	1.021576	0.2255658	8.49E-06
T	C	0.01	1.021576	0.2255658	8.49E-06
C	A	0.01	1.021576	0.2255658	8.49E-06
T	C	0.04	0.6375252	0.1325718	2.41E-06
G	A	0.01	1.021576	0.2255658	8.49E-06
C	T	0.01	1.123522	0.2476259	8.19E-06
T	G	0.01	1.021576	0.2255658	8.49E-06
G	C	0.01	1.021576	0.2255658	8.49E-06
T	G	0.01	1.075374	0.2286161	3.89E-06
T	C	0.01	1.021576	0.2255658	8.49E-06
T	C	0.01	1.021576	0.2255658	8.49E-06
C	G	0.01	1.021576	0.2255658	8.49E-06
T	C	0.01	1.021576	0.2255658	8.49E-06

G	A	0.01	1.021576	0.2255658	8.49E-06
C	A	0.01	1.021576	0.2255658	8.49E-06
G	A	0.01	1.021576	0.2255658	8.49E-06
C	T	0.01	1.021576	0.2255658	8.49E-06
A	G	0.01	1.021576	0.2255658	8.49E-06
C	T	0.01	1.021576	0.2255658	8.49E-06
G	A	0.01	0.999733	0.2187995	7.11E-06
G	C	0.01	0.999733	0.2187995	7.11E-06
G	T	0.01	0.999733	0.2187995	7.11E-06
G	GGTGTGTGT	0.01	1.224024	0.2609213	4.12E-06
A	G	0.12	0.3967449	0.08114204	1.66E-06
T	G	0.12	0.3967449	0.08114204	1.66E-06
G	A	0.09	0.4629608	0.09146324	7.37E-07
T	TA	0.12	0.3592062	0.07822417	6.42E-06
T	C	0.12	0.4032774	0.08030444	8.92E-07
A	G	0.12	0.4092345	0.08047454	6.59E-07
C	G	0.12	0.3990105	0.0800227	1.06E-06
A	G	0.09	0.4615912	0.09023984	5.71E-07
T	C	0.12	0.4276996	0.08135499	2.86E-07
G	A	0.12	0.4246903	0.0820435	4.25E-07
T	C	0.13	0.3490176	0.07543238	5.50E-06
T	C	0.01	1.293525	0.2656505	1.82E-06
AT	A	0.08	0.4186113	0.09045734	5.48E-06
C	T	0.01	1.200879	0.2344191	5.50E-07
T	C	0.01	1.155582	0.2272105	6.57E-07
C	A	0.01	1.155582	0.2272105	6.57E-07
T	A	0.02	0.9517315	0.1972914	2.25E-06
G	T	0.02	0.9280104	0.2039343	7.72E-06
GCACACA	G	0.06	0.4909222	0.1084675	8.60E-06
C	T	0.05	0.5475208	0.1083032	7.60E-07
T	A	0.22	0.3158268	0.06340196	1.08E-06
ATC	A	0.01	1.059846	0.2357045	9.79E-06
C	T	0.04	0.5560818	0.1218009	7.23E-06
C	T	0.02	0.8639975	0.1877833	6.17E-06
G	A	0.01	1.20446	0.255344	3.67E-06
G	GA	0.01	1.169197	0.2404673	1.89E-06
G	A	0.01	1.046163	0.2293215	7.34E-06
A	T	0.19	0.3085529	0.06576413	4.11E-06
G	T	0.19	0.3085529	0.06576413	4.11E-06
A	T	0.19	0.3056435	0.06622787	5.80E-06
A	T	0.19	0.3080519	0.0659275	4.48E-06
G	A	0.19	0.3080519	0.0659275	4.48E-06
C	T	0.19	0.3080519	0.0659275	4.48E-06
C	T	0.18	0.3342426	0.06580255	6.77E-07
G	A	0.19	0.3017143	0.06499636	5.14E-06
CA	C	0.19	0.3131066	0.06483079	2.19E-06
A	G	0.19	0.2968567	0.06428286	5.72E-06
A	G	0.01	0.9434195	0.2072836	7.69E-06
AT	A	0.11	0.3913732	0.08055563	1.92E-06
C	G	0.02	0.916358	0.1968635	4.86E-06

T	A	0.1	0.3978199	0.08844107	9.72E-06
G	A	0.1	0.4218932	0.08461101	1.06E-06
CTG	C	0.1	0.4236752	0.08490883	1.04E-06
A	G	0.1	0.4001229	0.08314571	2.37E-06
G	T	0.1	0.415158	0.08845829	4.08E-06
C	T	0.08	0.4147209	0.08909173	4.85E-06
TTCTC	T	0.01	1.132696	0.2465519	6.36E-06
A	G	0.41	0.2412589	0.05343557	9.03E-06
C	T	0.4	0.2487189	0.05341987	4.83E-06
CACGAGAGAGAGA	C	0.05	0.5229417	0.1163829	9.92E-06
A	C	0.01	1.070289	0.2352274	7.74E-06
T	A	0.02	0.8814655	0.1920692	6.50E-06
G	GTT	0.02	0.8397364	0.1840694	7.34E-06
G	T	0.02	0.9693777	0.1992278	1.86E-06
G	T	0.02	0.9764662	0.1976505	1.31E-06
G	A	0.02	0.8651077	0.1896459	7.35E-06
C	T	0.01	1.103708	0.238865	5.66E-06
A	\CACACACACACAC	0.02	0.802967	0.1729587	5.13E-06
G	T	0.01	1.257925	0.262593	2.63E-06
C	T	0.01	1.062308	0.2218044	2.64E-06
C	T	0.01	1.062308	0.2218044	2.64E-06
C	T	0.01	1.29179	0.2382179	1.26E-07
G	A	0.01	1.062308	0.2218044	2.64E-06
GT	G	0.01	1.062308	0.2218044	2.64E-06
T	C	0.01	1.062308	0.2218044	2.64E-06
A	G	0.01	1.062308	0.2218044	2.64E-06
C	G	0.01	1.062308	0.2218044	2.64E-06
G	A	0.01	1.062308	0.2218044	2.64E-06
C	A	0.01	1.062308	0.2218044	2.64E-06
A	G	0.01	1.199235	0.2333145	5.06E-07
C	G	0.31	0.2760406	0.05602319	1.39E-06
C	T	0.01	1.083493	0.2387626	8.16E-06
G	A	0.04	0.6989854	0.1281506	1.07E-07
C	G	0.04	0.6989854	0.1281506	1.07E-07
G	A	0.04	0.6989854	0.1281506	1.07E-07
G	A	0.04	0.6989854	0.1281506	1.07E-07
C	G	0.01	1.052037	0.2279624	5.80E-06
C	T	0.04	0.6989854	0.1281506	1.07E-07
A	G	0.04	0.6989854	0.1281506	1.07E-07
G	A	0.04	0.6989854	0.1281506	1.07E-07
G	A	0.04	0.6989854	0.1281506	1.07E-07
G	GTAAGA	0.04	0.6989854	0.1281506	1.07E-07
C	T	0.04	0.6989854	0.1281506	1.07E-07
G	A	0.03	0.7091252	0.1528294	5.19E-06
C	T	0.04	0.6989854	0.1281506	1.07E-07
C	T	0.04	0.6896886	0.1271619	1.25E-07
A	AT	0.03	0.6957041	0.1459562	2.93E-06
C	T	0.04	0.6989854	0.1281506	1.07E-07
C	T	0.04	0.6989854	0.1281506	1.07E-07
C	T	0.04	0.6989854	0.1281506	1.07E-07

G	A	0.04	0.7095648	0.1292317	8.94E-08
G	A	0.04	0.7023314	0.1289296	1.11E-07
C	T	0.01	0.6471559	0.108863	8.41E-09
G	A	0.01	0.6130284	0.09964943	2.74E-09
T	A	0.02	0.7821448	0.126252	2.15E-09
G	T	0.02	0.7840335	0.1305393	6.02E-09
C	T	0.01	0.566161	0.08687249	3.60E-10
C	T	0.01	0.4672513	0.0749394	1.74E-09
A	G	0.01	0.4528388	0.07336427	2.45E-09
C	A	0.02	0.5515958	0.09111062	4.78E-09
C	T	0.02	0.6248853	0.101194	2.48E-09
C	T	0.01	0.6531259	0.1045481	1.62E-09
G	A	0.02	0.4310798	0.07125324	4.77E-09
C	T	0.01	0.8018669	0.1324236	4.61E-09
C	T	0.01	0.6162544	0.1026132	6.09E-09
ACT	A	0.01	0.6495307	0.1078406	5.54E-09
C	T	0.03	0.3131969	0.0517856	4.84E-09
G	C	0.02	0.3729427	0.06239714	7.10E-09
G	C	0.03	0.3342246	0.05366927	1.81E-09
G	C	0.03	0.3195857	0.05281415	4.76E-09
G	A	0.03	0.3131969	0.0517856	4.84E-09
A	G	0.02	0.3694614	0.06012836	2.86E-09
G	T	0.02	0.3694614	0.06012836	2.86E-09
C	T	0.02	0.3808647	0.06181191	2.61E-09
G	A	0.02	0.4900633	0.08260958	9.00E-09
A	G	0.02	0.4900633	0.08260958	9.00E-09
A	G	0.02	0.4168425	0.06766251	2.62E-09
G	T	0.02	0.4168425	0.06766251	2.62E-09
C	T	0.02	0.4286265	0.06955394	2.59E-09
G	A	0.02	0.4656505	0.07872227	9.82E-09
C	T	0.01	0.5233316	0.08823783	9.14E-09
A	ATGTGTG	0.01	0.7780697	0.1307161	8.18E-09
GTGTCTATA	G	0.01	0.577014	0.09722734	8.87E-09
A	G	0.02	0.581578	0.09279027	1.54E-09
A	G	0.01	0.4635616	0.07205978	5.80E-10
C	T	0.01	0.535398	0.08746922	3.27E-09
C	T	0.01	0.5942976	0.0988102	5.79E-09
T	G	0.03	0.3714088	0.06180912	5.96E-09
G	T	0.03	0.3816068	0.06100988	1.56E-09
C	T	0.01	0.6050987	0.09632844	1.34E-09
C	G	0.01	0.568135	0.09201708	2.43E-09
T	G	0.06	-0.3250417	0.05348307	4.38E-09
C	T	0.06	-0.3324322	0.05397347	2.81E-09
A	G	0.06	-0.3299552	0.05451224	4.99E-09
G	A	0.04	-0.3961224	0.06648504	8.29E-09
G	T	0.04	-0.3961224	0.06648504	8.29E-09
A	G	0.04	-0.3961224	0.06648504	8.29E-09
G	C	0.04	-0.3961224	0.06648504	8.29E-09
C	T	0.04	-0.3961224	0.06648504	8.29E-09
G	T	0.04	-0.3961224	0.06648504	8.29E-09

G	A	0.04	-0.3961224	0.06648504	8.29E-09
C	A	0.04	-0.4128478	0.06688912	2.62E-09
G	A	0.04	-0.4128478	0.06688912	2.62E-09
A	T	0.04	-0.4128478	0.06688912	2.62E-09
C	T	0.04	-0.4128478	0.06688912	2.62E-09
G	A	0.04	-0.4128478	0.06688912	2.62E-09
C	A	0.04	-0.4128478	0.06688912	2.62E-09
G	A	0.04	-0.4128478	0.06688912	2.62E-09
A	G	0.04	-0.4128478	0.06688912	2.62E-09
T	G	0.04	-0.4161037	0.06626577	1.46E-09
G	A	0.04	-0.4161037	0.06626577	1.46E-09
G	A	0.04	-0.4234366	0.0668117	1.05E-09
A	G	0.04	-0.4161037	0.06626577	1.46E-09
A	C	0.04	-0.4161037	0.06626577	1.46E-09
A	G	0.04	-0.4161037	0.06626577	1.46E-09
T	G	0.04	-0.4161037	0.06626577	1.46E-09
C	CA	0.04	-0.4161037	0.06626577	1.46E-09
AAC	A	0.04	-0.4161037	0.06626577	1.46E-09
C	A	0.04	-0.4161037	0.06626577	1.46E-09
T	G	0.04	-0.4161037	0.06626577	1.46E-09
T	A	0.04	-0.4161037	0.06626577	1.46E-09
G	A	0.04	-0.4161037	0.06626577	1.46E-09
C	T	0.04	-0.3983753	0.06703206	8.98E-09
G	A	0.04	-0.3983753	0.06703206	8.98E-09
G	T	0.04	-0.4188404	0.06671362	1.47E-09
C	A	0.04	-0.4161037	0.06626577	1.46E-09
C	A	0.04	-0.4161037	0.06626577	1.46E-09
C	T	0.04	-0.4080632	0.0682405	7.39E-09
A	G	0.04	-0.3983753	0.06703206	8.98E-09
T	G	0.04	-0.3983753	0.06703206	8.98E-09
T	C	0.04	-0.3983753	0.06703206	8.98E-09
G	T	0.03	0.3649964	0.06124562	7.78E-09
G	T	0.02	0.5514465	0.08936741	2.48E-09
C	T	0.02	0.5001217	0.0833586	6.25E-09
G	A	0.02	0.8106974	0.1332675	3.98E-09
C	T	0.02	0.8066451	0.13454	6.39E-09
C	T	0.02	0.5821801	0.09530215	4.13E-09
G	A	0.01	0.6683256	0.1124937	8.56E-09
T	TAC	0.01	0.8366914	0.1353823	2.72E-09
C	T	0.02	0.5688445	0.09228651	2.67E-09
GTGTCTATA	G	0.01	0.6145005	0.1019215	5.35E-09
G	GGTGT	0.01	0.5738289	0.09024004	8.76E-10
C	T	0.02	-0.8157338	0.1324023	2.63E-09
A	T	0.01	0.9184379	0.1507989	4.03E-09
T	A	0.03	0.6826083	0.1108	2.75E-09
T	C	0.02	-0.4401517	0.07313549	5.63E-09
T	C	0.01	-0.5220303	0.08193214	8.06E-10
G	A	0.02	-0.5146657	0.08070155	8.47E-10
T	G	0.01	-0.8265181	0.121892	8.61E-11
G	T	0.01	-0.8265181	0.121892	8.61E-11

GA	G	0.01	-0.8265181	0.121892	8.61E-11
T	C	0.02	-0.6744749	0.1098147	3.09E-09
A	G	0.02	-0.6744749	0.1098147	3.09E-09
T	C	0.01	-0.8265181	0.121892	8.61E-11
A	G	0.02	-0.6958153	0.1155605	5.92E-09
A	G	0.02	-0.7481121	0.1144387	3.46E-10
G	GTCCGTCCGTCCA	0.03	0.3505689	0.0577898	4.60E-09
A	T	0.02	0.6227703	0.09031582	4.02E-11
G	A	0.02	0.5848123	0.08893117	2.56E-10
T	C	0.02	0.5848123	0.08893117	2.56E-10
AT	A	0.02	0.5684587	0.08758872	4.18E-10
G	C	0.02	-0.9289221	0.1564979	8.99E-09
GGTGTGTGTGTGT	G	0.01	-1.112553	0.1764734	1.16E-09
AAAAGAAAG	A	0.02	-0.5058747	0.08500704	8.05E-09
G	GAAGA	0.08	-0.4773022	0.07953413	7.98E-09
G	A	0.02	-0.557678	0.0926611	6.14E-09
AAAAT	A	0.02	-0.802612	0.1322336	4.94E-09
AAAAGAAAG	A	0.02	-0.6494192	0.1034077	1.59E-09
T	A	0.01	0.7063241	0.1142164	2.27E-09
T	C	0.02	-0.6925115	0.115218	5.92E-09
T	C	0.01	-0.7206943	0.1136484	9.52E-10
C	T	0.01	1.168176	0.2565507	7.59E-06
G	A	0.01	1.168176	0.2565507	7.59E-06
C	T	0.3	-0.2456753	0.05404552	7.85E-06
A	G	0.41	-0.2349585	0.05224614	9.72E-06
A	G	0.02	1.109025	0.2207655	8.79E-07
A	T	0.01	1.009259	0.2234092	8.89E-06
T	G	0.01	1.196037	0.2537557	3.71E-06
CCT	C	0.04	-0.6649306	0.1336599	1.11E-06
AGT	A	0.04	-0.6526006	0.1361671	2.59E-06
C	G	0.01	1.152529	0.2564823	9.87E-06
G	T	0.02	0.9054961	0.201303	9.68E-06
C	G	0.02	0.9993365	0.2046129	1.69E-06
AACAG	A	0.02	0.9993365	0.2046129	1.69E-06
T	C	0.02	0.9993365	0.2046129	1.69E-06
C	T	0.02	0.9993365	0.2046129	1.69E-06
G	A	0.02	0.9993365	0.2046129	1.69E-06
G	A	0.02	0.9993365	0.2046129	1.69E-06
T	A	0.02	0.9626233	0.2009572	2.62E-06
TTTC	T	0.02	0.960011	0.2114035	8.02E-06
G	C	0.45	0.244558	0.0536932	7.55E-06
T	C	0.45	0.2452234	0.05362961	6.98E-06
TAC	T	0.21	0.33803	0.07188222	3.90E-06
T	C	0.26	-0.2632133	0.05853436	9.74E-06
T	G	0.02	0.8705915	0.1936814	9.82E-06
G	A	0.02	0.9936476	0.2050099	2.01E-06
G	A	0.24	0.281928	0.06013563	4.16E-06
G	T	0.24	0.2773633	0.06065959	6.98E-06
C	A	0.25	0.2653865	0.05881121	9.09E-06
C	T	0.25	0.2663986	0.05887023	8.60E-06

A	G	0.24	0.2846893	0.06086621	4.37E-06
C	T	0.24	0.2773633	0.06065959	6.98E-06
T	C	0.24	0.2773633	0.06065959	6.98E-06
G	A	0.24	0.2828051	0.06087631	5.04E-06
C	T	0.24	0.2828051	0.06087631	5.04E-06
A	G	0.24	0.2864485	0.06086786	3.84E-06
A	G	0.24	0.2868925	0.06106573	3.98E-06
G	A	0.24	0.2864485	0.06086786	3.84E-06
G	A	0.24	0.2864485	0.06086786	3.84E-06
T	C	0.24	0.2864485	0.06086786	3.84E-06
T	C	0.24	0.2864485	0.06086786	3.84E-06
C	A	0.24	0.2944368	0.06080946	2.06E-06
C	A	0.24	0.2864485	0.06086786	3.84E-06
A	G	0.24	0.2864485	0.06086786	3.84E-06
T	C	0.24	0.2934976	0.06083325	2.23E-06
C	T	0.24	0.2934976	0.06083325	2.23E-06
A	G	0.24	0.2824019	0.06107893	5.56E-06
G	C	0.24	0.2934976	0.06083325	2.23E-06
G	T	0.24	0.2864485	0.06086786	3.84E-06
G	T	0.24	0.2864485	0.06086786	3.84E-06
G	GA	0.24	0.2807062	0.06089615	5.92E-06
T	G	0.24	0.2787851	0.06092304	6.87E-06
A	G	0.24	0.2934976	0.06083325	2.23E-06
C	T	0.24	0.2913273	0.06102447	2.82E-06
G	A	0.24	0.2883351	0.06085772	3.32E-06
C	A	0.23	0.3138028	0.06125204	5.46E-07
G	A	0.2	0.331041	0.06247003	2.31E-07
C	T	0.23	0.317119	0.06121976	4.15E-07
T	C	0.23	0.3159682	0.06122975	4.56E-07
A	T	0.23	0.3194863	0.0612239	3.44E-07
C	T	0.23	0.3119793	0.06128763	6.39E-07
T	A	0.23	0.3194863	0.0612239	3.44E-07
A	G	0.23	0.3194863	0.0612239	3.44E-07
A	C	0.23	0.3194863	0.0612239	3.44E-07
G	A	0.23	0.3194863	0.0612239	3.44E-07
G	A	0.23	0.3194863	0.0612239	3.44E-07
A	T	0.23	0.3194863	0.0612239	3.44E-07
C	A	0.23	0.3194863	0.0612239	3.44E-07
A	G	0.25	0.3068443	0.05932806	4.31E-07
T	C	0.25	0.3068443	0.05932806	4.31E-07
T	C	0.37	-0.2569903	0.05435431	3.47E-06
C	T	0.01	1.338272	0.2624649	6.14E-07
G	A	0.03	0.8285022	0.1722444	2.39E-06
G	T	0.14	0.3635421	0.07850546	5.38E-06
C	CT	0.01	1.14251	0.2481039	6.04E-06
A	C	0.01	1.14251	0.2481039	6.04E-06
T	G	0.01	1.14251	0.2481039	6.04E-06
A	G	0.01	1.14251	0.2481039	6.04E-06
T	C	0.01	1.14251	0.2481039	6.04E-06
G	A	0.01	1.14251	0.2481039	6.04E-06

T	A	0.01	1.14251	0.2481039	6.04E-06
G	A	0.01	1.14251	0.2481039	6.04E-06
A	G	0.01	1.14251	0.2481039	6.04E-06
T	C	0.01	1.14251	0.2481039	6.04E-06
T	G	0.35	0.2583546	0.05603082	5.88E-06
G	A	0.05	0.5477969	0.119828	7.01E-06
C	T	0.06	0.4883298	0.1077521	8.34E-06
A	AT	0.23	0.3352516	0.06280681	1.91E-07
C	G	0.18	0.3271998	0.07059267	5.28E-06
G	A	0.02	0.8425673	0.1807039	4.67E-06
A	G	0.01	1.19418	0.2652455	9.51E-06
T	5AAGGAAGGAAGGA5	0.04	0.6021764	0.1330746	8.60E-06
T	G	0.05	0.5677327	0.1254663	8.61E-06
G	T	0.08	0.4394537	0.09533621	5.92E-06
T	C	0.04	0.562895	0.1245737	8.85E-06
A	AT	0.23	0.2825489	0.04515984	2.04E-09
T	A	0.02	1.285549	0.2127653	6.09E-09
A	AT	0.23	0.2236761	0.03595234	2.18E-09
G	T	0.02	0.9615639	0.1616265	8.10E-09
C	T	0.02	1.040623	0.1722098	4.89E-09
T	A	0.02	1.047389	0.1745949	6.20E-09
A	G	0.02	1.040623	0.1722098	4.89E-09
A	G	0.02	1.040623	0.1722098	4.89E-09
A	G	0.02	1.040623	0.1722098	4.89E-09
A	G	0.02	1.040623	0.1722098	4.89E-09
C	CCTCTCT	0.02	1.040623	0.1722098	4.89E-09
T	C	0.02	1.040623	0.1722098	4.89E-09
T	A	0.02	1.085384	0.1766106	2.79E-09
G	A	0.02	1.085384	0.1766106	2.79E-09
C	T	0.02	1.085384	0.1766106	2.79E-09
C	A	0.02	1.085384	0.1766106	2.79E-09
CAA	C	0.02	1.085384	0.1766106	2.79E-09
A	G	0.02	1.085384	0.1766106	2.79E-09
G	A	0.02	1.085384	0.1766106	2.79E-09
C	A	0.02	1.085384	0.1766106	2.79E-09
G	A	0.02	1.085384	0.1766106	2.79E-09
T	C	0.02	1.085384	0.1766106	2.79E-09
G	C	0.02	1.085384	0.1766106	2.79E-09
TG	T	0.02	1.085384	0.1766106	2.79E-09
G	A	0.02	1.085384	0.1766106	2.79E-09
T	TAAAACA	0.02	1.085384	0.1766106	2.79E-09
A	G	0.02	1.085384	0.1766106	2.79E-09
C	T	0.02	1.085384	0.1766106	2.79E-09
T	TAA	0.02	1.085384	0.1766106	2.79E-09
C	T	0.02	1.085384	0.1766106	2.79E-09
A	G	0.02	1.085384	0.1766106	2.79E-09
T	C	0.02	1.085384	0.1766106	2.79E-09
G	T	0.02	1.085384	0.1766106	2.79E-09
A	G	0.02	1.003487	0.1697697	9.95E-09
T	G	0.03	0.6031959	0.1013265	9.51E-09

G	A	0.01	0.8912937	0.1484897	6.80E-09
T	G	0.17	-0.325681	0.05393355	5.02E-09
T	A	0.02	1.223955	0.2037908	7.37E-09
T	C	0.02	1.128817	0.1884648	8.03E-09
C	T	0.35	-0.2376463	0.03953187	5.80E-09
CT	C	0.01	0.8674986	0.1441567	5.85E-09
C	T	0.01	1.241638	0.2330782	2.02E-07
C	A	0.01	1.157962	0.2522327	6.44E-06
G	A	0.01	1.157962	0.2522327	6.44E-06
GT	G	0.01	1.157962	0.2522327	6.44E-06
G	A	0.01	1.157962	0.2522327	6.44E-06
G	T	0.08	0.4152906	0.089027	4.63E-06
T	G	0.18	0.3028217	0.06684184	8.41E-06
C	A	0.18	0.3221967	0.06669377	2.17E-06
A	C	0.18	0.3096721	0.06737689	6.29E-06
A	G	0.18	0.3053939	0.06735918	8.29E-06
A	G	0.18	0.317869	0.06816855	4.66E-06
G	C	0.18	0.3066924	0.06776864	8.59E-06
T	C	0.37	0.2443471	0.05252497	4.90E-06
T	C	0.02	-0.7883908	0.1743319	8.71E-06
A	AGCGCACGC	0.02	0.9845372	0.21815	9.07E-06
A	T	0.04	0.6544551	0.1409958	5.13E-06
TCAAACAAA	T	0.08	0.4358736	0.09563706	7.46E-06
A	C	0.09	0.4142345	0.09145722	8.45E-06
G	A	0.2	-0.2971819	0.06514276	7.32E-06
T	C	0.21	-0.2988332	0.06461903	5.54E-06
C	T	0.2	-0.2930678	0.06511962	9.59E-06
C	T	0.2	-0.2930678	0.06511962	9.59E-06
G	A	0.02	1.01151	0.2231889	8.35E-06
C	T	0.08	0.4159732	0.09165386	8.12E-06
ATCTC	A	0.05	0.5616123	0.1235041	7.81E-06
T	A	0.39	0.2634152	0.05515504	2.80E-06
T	C	0.36	0.2508517	0.0549786	7.29E-06
G	A	0.36	0.2616297	0.05495672	3.00E-06
C	G	0.36	0.2645084	0.05497342	2.37E-06
C	T	0.33	0.2590892	0.05513051	3.96E-06
T	C	0.41	0.2699411	0.05495905	1.49E-06
C	T	0.35	0.2722873	0.05508353	1.29E-06
G	T	0.41	0.2699411	0.05495905	1.49E-06
C	T	0.35	0.2667123	0.05497917	1.98E-06
G	A	0.41	0.2714798	0.05488898	1.27E-06
A	AATTT	0.34	0.2547721	0.05544422	6.32E-06
G	A	0.41	0.2713739	0.05482605	1.25E-06
G	A	0.41	0.2708846	0.05491681	1.35E-06
A	G	0.35	0.2722873	0.05508353	1.29E-06
A	G	0.41	0.2699411	0.05495905	1.49E-06
G	A	0.35	0.280116	0.05508646	6.57E-07
A	T	0.41	0.2714798	0.05488898	1.27E-06
T	G	0.41	0.2586254	0.05489939	3.76E-06
G	C	0.42	0.2679155	0.05486772	1.71E-06

T	G	0.42	0.2681688	0.05479414	1.62E-06
T	TAAG	0.41	0.2796594	0.05489928	6.29E-07
G	A	0.42	0.2646208	0.05495979	2.34E-06
C	G	0.02	0.8707093	0.1814782	2.53E-06
G	GT	0.06	0.5249625	0.1098572	2.76E-06
T	A	0.06	0.5126207	0.1104016	5.10E-06
A	G	0.06	0.5249625	0.1098572	2.76E-06
T	G	0.06	0.5249625	0.1098572	2.76E-06
CT	C	0.03	0.7255839	0.1579375	6.35E-06
TCATCCATC	T	0.49	-0.2414205	0.05139058	3.99E-06
CA	C	0.1	0.4044716	0.08931041	8.47E-06
T	C	0.01	1.275859	0.2581545	1.29E-06
G	A	0.02	-0.8891583	0.1916413	5.18E-06
T	C	0.06	-0.5219721	0.1143519	7.23E-06
A	AT	0.02	0.8774823	0.1927661	7.65E-06
ACC	A	0.02	1.023179	0.2264667	8.88E-06
C	T	0.01	1.216162	0.264464	6.22E-06
G	T	0.01	1.216162	0.264464	6.22E-06
G	T	0.24	-0.27186	0.06004481	8.51E-06
A	G	0.04	-0.6152448	0.1309495	3.98E-06
G	A	0.04	-0.6268764	0.1314809	2.90E-06
T	TA	0.04	-0.675839	0.1346968	9.06E-07
G	A	0.04	-0.598608	0.1300147	6.07E-06
T	C	0.1	0.4519061	0.08987878	8.62E-07
G	GT	0.1	0.4387192	0.08877725	1.30E-06
T	C	0.1	0.4574273	0.08989498	6.46E-07
G	T	0.09	0.4901342	0.0910399	1.52E-07
CT	C	0.1	0.449149	0.08970202	9.52E-07
T	C	0.02	0.7983699	0.1776074	9.82E-06
T	A	0.19	-0.3237707	0.06634661	1.73E-06
G	A	0.16	0.3536283	0.07383853	2.63E-06
TCAAA	T	0.17	0.3516829	0.07126194	1.34E-06
G	A	0.16	0.3580285	0.0746562	2.55E-06
C	T	0.16	0.3623467	0.07526744	2.35E-06
C	A	0.16	0.3580285	0.0746562	2.55E-06
CAG	C	0.16	0.3647745	0.07479266	1.75E-06
C	T	0.16	0.3627524	0.07523052	2.26E-06
AAAAG	A	0.01	1.101751	0.2267832	1.91E-06
G	A	0.01	1.101751	0.2267832	1.91E-06
A	C	0.01	1.101751	0.2267832	1.91E-06
A	C	0.01	1.101751	0.2267832	1.91E-06
G	T	0.01	1.101751	0.2267832	1.91E-06
G	A	0.01	1.101751	0.2267832	1.91E-06
A	G	0.01	1.101751	0.2267832	1.91E-06
CCT	C	0.01	1.101751	0.2267832	1.91E-06
A	G	0.01	1.101751	0.2267832	1.91E-06
A	T	0.01	1.101751	0.2267832	1.91E-06
T	C	0.01	1.101751	0.2267832	1.91E-06
G	A	0.01	1.101751	0.2267832	1.91E-06
T	G	0.01	1.101751	0.2267832	1.91E-06

C	T	0.01	1.080125	0.2203242	1.56E-06
G	C	0.02	0.9817414	0.2172867	8.87E-06
G	A	0.01	1.12474	0.2487313	8.73E-06
A	G	0.01	1.045589	0.2217737	3.69E-06
G	C	0.01	1.045589	0.2217737	3.69E-06
G	A	0.01	1.045589	0.2217737	3.69E-06
G	A	0.01	1.162439	0.2581033	9.45E-06
T	TGTGTGC	0.09	0.4084815	0.08876109	6.13E-06
G	T	0.19	0.3109608	0.0680593	7.09E-06
TG	T	0.41	0.2824237	0.05628946	9.07E-07
G	C	0.01	1.112708	0.2427848	6.66E-06
G	A	0.16	0.3234051	0.07166766	9.10E-06
G	A	0.16	0.3201849	0.07064964	8.35E-06
A	C	0.16	0.3234051	0.07166766	9.10E-06
C	T	0.16	0.3234051	0.07166766	9.10E-06
C	T	0.26	-0.2981334	0.06467924	5.93E-06
G	A	0.02	0.8659531	0.171488	7.78E-07
A	T	0.23	-0.269103	0.05949635	8.69E-06
T	C	0.11	0.421517	0.08368536	8.26E-07
T	G	0.11	0.4121388	0.08303434	1.17E-06
G	A	0.01	1.297769	0.2606803	1.09E-06
T	G	0.02	0.9186614	0.196975	4.65E-06
T	C	0.08	-0.4337398	0.09571333	8.36E-06
G	A	0.07	0.4684945	0.1017651	6.08E-06
T	TTTTG	0.07	0.5037424	0.1005105	9.31E-07
G	A	0.07	0.4659023	0.09890243	3.76E-06
G	C	0.04	0.6419792	0.140457	7.04E-06
A	G	0.04	0.6234014	0.1386029	9.71E-06
C	T	0.01	1.068599	0.23014	5.10E-06
G	A	0.04	0.3599078	0.06014582	7.38E-09
A	G	0.04	0.3599078	0.06014582	7.38E-09
C	A	0.04	0.3599078	0.06014582	7.38E-09
A	G	0.04	0.3599078	0.06014582	7.38E-09
C	T	0.04	0.3729252	0.06172184	5.41E-09
C	A	0.29	-0.202798	0.03360846	5.76E-09
T	G	0.29	-0.2049055	0.03346637	3.58E-09
TG	T	0.41	0.1546769	0.02520719	2.95E-09
G	A	0.02	-0.8528671	0.1384973	2.76E-09
AAAAG	A	0.01	0.6928764	0.1145218	4.75E-09
G	A	0.01	0.6928764	0.1145218	4.75E-09
A	C	0.01	0.6928764	0.1145218	4.75E-09
A	C	0.01	0.6928764	0.1145218	4.75E-09
G	T	0.01	0.6928764	0.1145218	4.75E-09
G	A	0.01	0.6928764	0.1145218	4.75E-09
A	G	0.01	0.6928764	0.1145218	4.75E-09
CCT	C	0.01	0.6928764	0.1145218	4.75E-09
A	G	0.01	0.6928764	0.1145218	4.75E-09
A	T	0.01	0.6928764	0.1145218	4.75E-09
T	C	0.01	0.6928764	0.1145218	4.75E-09
G	A	0.01	0.6928764	0.1145218	4.75E-09

T	G	0.01	0.6928764	0.1145218	4.75E-09
C	T	0.01	0.6878008	0.1113108	2.35E-09
G	A	0.01	0.8233551	0.127314	4.67E-10
G	A	0.02	0.5439568	0.07942775	5.57E-11
T	A	0.02	0.8508786	0.1416939	6.29E-09
G	A	0.02	0.5517401	0.08816051	1.68E-09
T	A	0.35	0.1305924	0.02756276	3.32E-06
C	T	0.35	0.1290619	0.0277649	4.98E-06
A	T	0.34	0.1308015	0.02802776	4.58E-06
G	A	0.35	0.129179	0.02777455	4.92E-06
A	C	0.38	0.1328493	0.02721394	1.71E-06
T	C	0.44	0.1239016	0.02599967	2.93E-06
C	T	0.46	0.1179926	0.02596176	7.88E-06
A	G	0.22	-0.1557786	0.03072271	7.03E-07
T	C	0.2	-0.1456846	0.03184208	6.89E-06
G	A	0.21	-0.1445613	0.03155515	6.71E-06
A	G	0.22	-0.1596416	0.03077159	3.99E-07
TC	T	0.22	-0.1593959	0.03078488	4.19E-07
T	C	0.22	-0.1596416	0.03077159	3.99E-07
G	A	0.21	-0.1445613	0.03155515	6.71E-06
T	C	0.22	-0.1543748	0.03084105	9.58E-07
C	T	0.21	-0.1445613	0.03155515	6.71E-06
T	C	0.22	-0.1596416	0.03077159	3.99E-07
T	G	0.21	-0.1464938	0.0315475	5.08E-06
G	A	0.22	-0.157016	0.0309072	6.71E-07
T	TTA	0.22	-0.1578783	0.03091637	5.91E-07
T	C	0.22	-0.1596416	0.03077159	3.99E-07
A	G	0.22	-0.1596416	0.03077159	3.99E-07
G	A	0.22	-0.1596416	0.03077159	3.99E-07
C	T	0.22	-0.1596416	0.03077159	3.99E-07
G	A	0.2	-0.1476108	0.0318305	5.23E-06
C	T	0.2	-0.1456846	0.03184208	6.89E-06
GAATC	G	0.2	-0.1454652	0.03186196	7.20E-06
A	G	0.2	-0.1456846	0.03184208	6.89E-06
A	G	0.22	-0.161483	0.03076912	2.97E-07
C	A	0.2	-0.1456846	0.03184208	6.89E-06
A	G	0.22	-0.1596416	0.03077159	3.99E-07
C	T	0.23	-0.1575906	0.03020509	3.46E-07
C	T	0.21	-0.1445613	0.03155515	6.71E-06
C	T	0.2	-0.1429196	0.03179922	9.84E-06
C	T	0.2	-0.1439346	0.03150861	7.12E-06
C	A	0.2	-0.1440889	0.03206632	9.88E-06
G	A	0.2	-0.1429196	0.03179922	9.84E-06
A	T	0.2	-0.1464533	0.03210874	7.34E-06
G	A	0.2	-0.1471024	0.03190898	5.91E-06
C	T	0.2	-0.1479664	0.03160565	4.28E-06
T	C	0.2	-0.1471024	0.03190898	5.91E-06
A	G	0.2	-0.1458794	0.03161292	5.79E-06
G	A	0.2	-0.1471024	0.03190898	5.91E-06
A	G	0.2	-0.147373	0.03173183	5.07E-06

T	A	0.2	-0.1471024	0.03190898	5.91E-06
G	A	0.2	-0.147373	0.03173183	5.07E-06
A	G	0.19	-0.1448138	0.03200881	8.64E-06
C	T	0.2	-0.1471024	0.03190898	5.91E-06
C	T	0.2	-0.1471024	0.03190898	5.91E-06
G	A	0.2	-0.1458794	0.03161292	5.79E-06
C	T	0.2	-0.1446835	0.03206333	9.09E-06
A	C	0.2	-0.1439812	0.0319841	9.53E-06
C	A	0.2	-0.1439032	0.03190454	9.17E-06
A	G	0.2	-0.1496123	0.03215718	4.88E-06
T	G	0.2	-0.1429538	0.03145574	7.89E-06
A	G	0.5	-0.1167876	0.0258443	8.84E-06
G	A	0.5	-0.1168145	0.02585181	8.85E-06
G	T	0.36	0.1245008	0.02744357	8.18E-06
T	C	0.37	0.1308631	0.026883	1.83E-06
T	C	0.36	0.129081	0.02748401	4.00E-06
C	T	0.36	0.1379083	0.02723912	7.29E-07
G	A	0.36	0.1258455	0.02742531	6.50E-06
T	G	0.36	0.1359251	0.02724547	1.04E-06
A	T	0.32	0.1327522	0.0276882	2.56E-06
T	C	0.37	0.1382437	0.02745709	8.33E-07
T	G	0.37	0.1382437	0.02745709	8.33E-07
T	C	0.37	0.1382437	0.02745709	8.33E-07
C	T	0.36	0.1378781	0.02760654	1.01E-06
G	A	0.36	0.132027	0.0276541	2.81E-06
A	C	0.36	0.134405	0.02758198	1.78E-06
A	G	0.36	0.1378781	0.02760654	1.01E-06
C	T	0.34	0.1268214	0.02750481	5.88E-06
A	C	0.36	0.1378781	0.02760654	1.01E-06
T	A	0.36	0.1378781	0.02760654	1.01E-06
TG	T	0.36	0.139018	0.02769561	8.96E-07
A	G	0.36	0.1359039	0.02759854	1.40E-06
C	T	0.36	0.1378781	0.02760654	1.01E-06
C	T	0.36	0.1355782	0.02767095	1.58E-06
C	T	0.36	0.133959	0.02769264	2.10E-06
T	C	0.36	0.1369887	0.02774822	1.32E-06
C	G	0.36	0.1417111	0.02785962	6.51E-07
C	T	0.36	0.1417111	0.02785962	6.51E-07
A	G	0.36	0.1417111	0.02785962	6.51E-07
G	T	0.36	0.1421636	0.02779809	5.70E-07
T	G	0.05	-0.2896506	0.06048049	2.63E-06
T	G	0.3	-0.1317925	0.02643853	1.06E-06
A	G	0.47	-0.1320507	0.02676613	1.35E-06
T	C	0.21	-0.1474095	0.03204333	6.17E-06
T	C	0.21	-0.145127	0.03206956	8.59E-06
C	A	0.21	-0.145127	0.03206956	8.59E-06
A	G	0.21	-0.1474095	0.03204333	6.17E-06
G	C	0.21	-0.1453317	0.03206586	8.33E-06
C	A	0.21	-0.1474095	0.03204333	6.17E-06
C	A	0.21	-0.1453707	0.03207162	8.32E-06

C	T	0.21	-0.1484048	0.03188337	4.84E-06
C	G	0.47	0.1209139	0.02680892	9.18E-06
G	A	0.16	0.171819	0.03575244	2.43E-06
C	T	0.16	0.1654635	0.03595217	6.11E-06
C	T	0.15	0.1883272	0.03674507	5.40E-07
AT	A	0.17	0.1617831	0.03509819	5.92E-06
C	T	0.16	0.1760414	0.03581175	1.46E-06
T	C	0.07	0.2244283	0.04885346	6.35E-06
TTGTC	T	0.07	0.2244283	0.04885346	6.35E-06
G	T	0.07	0.2282516	0.04865089	4.10E-06
C	T	0.07	0.2282516	0.04865089	4.10E-06
C	G	0.07	0.2282516	0.04865089	4.10E-06
G	C	0.07	0.2282516	0.04865089	4.10E-06
T	A	0.07	0.2282516	0.04865089	4.10E-06
G	GT	0.07	0.2282516	0.04865089	4.10E-06
G	A	0.07	0.2282516	0.04865089	4.10E-06
T	C	0.07	0.2282516	0.04865089	4.10E-06
G	A	0.07	0.2282516	0.04865089	4.10E-06
C	T	0.07	0.2282516	0.04865089	4.10E-06
T	C	0.07	0.2282516	0.04865089	4.10E-06
A	G	0.07	0.2282516	0.04865089	4.10E-06
C	T	0.07	0.2282516	0.04865089	4.10E-06
A	T	0.07	0.2282516	0.04865089	4.10E-06
T	C	0.07	0.2282516	0.04865089	4.10E-06
G	C	0.02	0.4109124	0.09034789	7.77E-06
T	A	0.01	1.438923	0.2418761	9.41E-09
C	T	0.16	-0.3638157	0.07794997	4.88E-06
C	T	0.16	-0.3638157	0.07794997	4.88E-06
G	A	0.16	-0.3638157	0.07794997	4.88E-06
T	G	0.16	-0.3638157	0.07794997	4.88E-06
T	C	0.16	-0.3638157	0.07794997	4.88E-06
C	T	0.16	-0.3638157	0.07794997	4.88E-06
C	T	0.27	-0.2835369	0.06269125	9.21E-06
C	T	0.02	0.962578	0.2135456	9.83E-06
C	T	0.02	-0.9060809	0.1974555	6.90E-06
A	G	0.02	-0.9060809	0.1974555	6.90E-06
GAAAC	G	0.19	-0.332164	0.06809334	1.89E-06
A	C	0.19	-0.3308843	0.06812452	2.08E-06
T	G	0.19	-0.3308843	0.06812452	2.08E-06
C	T	0.18	-0.3344271	0.06934551	2.43E-06
G	A	0.23	-0.3007263	0.06454217	5.06E-06
T	C	0.23	-0.3008052	0.06484632	5.54E-06
C	T	0.23	-0.3007263	0.06454217	5.06E-06
A	G	0.23	-0.3072857	0.06454199	3.21E-06
A	G	0.23	-0.3007263	0.06454217	5.06E-06
T	A	0.23	-0.3007263	0.06454217	5.06E-06
G	A	0.04	-0.6759776	0.1427363	3.59E-06
C	T	0.02	0.8503701	0.1854225	6.98E-06
T	TAC	0.05	0.6002381	0.1256169	2.97E-06
A	G	0.01	1.237054	0.2359662	3.40E-07

G	T	0.01	1.429386	0.2499945	3.20E-08
G	T	0.01	1.429386	0.2499945	3.20E-08
C	T	0.01	-1.143705	0.244832	4.79E-06
T	C	0.01	-1.143705	0.244832	4.79E-06
T	C	0.01	-1.143705	0.244832	4.79E-06
G	A	0.01	-1.143705	0.244832	4.79E-06
G	A	0.02	-1.105256	0.2031414	1.29E-07
A	G	0.04	-0.6427329	0.1395158	6.37E-06
TAAC	T	0.04	-0.6316661	0.1383011	7.58E-06
G	C	0.04	-0.6316661	0.1383011	7.58E-06
C	T	0.04	-0.6316661	0.1383011	7.58E-06
G	C	0.04	-0.6314958	0.1370649	6.36E-06
C	T	0.04	-0.6316661	0.1383011	7.58E-06
A	G	0.04	-0.6314958	0.1370649	6.36E-06
T	C	0.04	-0.6802419	0.1394438	1.88E-06
T	G	0.04	-0.6621503	0.1395212	3.44E-06
T	C	0.15	-0.3543219	0.07802843	8.51E-06
C	T	0.15	-0.3562419	0.07795156	7.49E-06
A	ATG	0.03	-0.767567	0.1700734	9.60E-06
A	C	0.13	-0.3812584	0.08278717	6.42E-06
G	A	0.13	-0.3659032	0.08067305	8.71E-06
G	A	0.13	-0.3796504	0.08029374	3.72E-06
G	A	0.14	-0.3650654	0.07744733	3.97E-06
T	G	0.14	-0.3498174	0.07743637	9.42E-06
A	G	0.14	-0.3650654	0.07744733	3.97E-06
C	T	0.14	-0.3498174	0.07743637	9.42E-06
C	T	0.21	-0.3081269	0.06690629	6.42E-06
T	G	0.24	-0.3211967	0.06199092	4.55E-07
T	C	0.02	-0.9445557	0.2077278	8.28E-06
T	G	0.16	0.3484004	0.07374109	3.78E-06
G	C	0.16	0.3290765	0.07302074	9.87E-06
T	A	0.01	1.397915	0.252789	8.27E-08
A	C	0.02	-1.021735	0.2132764	2.81E-06
G	A	0.47	-0.246803	0.05353978	6.30E-06
A	G	0.18	0.3210054	0.07042836	7.90E-06
G	A	0.02	0.9612765	0.2039117	3.96E-06
T	TGAGAGAGA	0.05	-0.5636204	0.1224991	6.54E-06
G	A	0.34	-0.2531569	0.05604156	9.43E-06
G	A	0.35	-0.2561734	0.05557858	6.31E-06
A	G	0.42	0.2595424	0.05448853	3.18E-06
TA	T	0.36	-0.2542573	0.05349532	3.33E-06
G	C	0.35	-0.2548604	0.05617138	8.65E-06
A	G	0.44	0.265127	0.05507191	2.52E-06
G	C	0.44	0.2663773	0.0549469	2.16E-06
A	C	0.44	0.265127	0.05507191	2.52E-06
A	C	0.44	0.264729	0.05491653	2.45E-06
G	A	0.42	0.2711686	0.0548298	1.38E-06
C	T	0.42	0.2634031	0.05492293	2.74E-06
C	T	0.41	0.2732642	0.05495471	1.22E-06
C	A	0.45	0.2420675	0.05296623	7.49E-06

C	T	0.43	0.2736399	0.05393306	7.59E-07
T	C	0.43	0.2629203	0.05510322	3.06E-06
G	A	0.35	-0.2548604	0.05617138	8.65E-06
G	A	0.44	0.265127	0.05507191	2.52E-06
T	A	0.44	0.265127	0.05507191	2.52E-06
T	C	0.44	0.2611673	0.05471764	3.04E-06
C	CTT	0.45	0.2500664	0.05465233	7.31E-06
C	A	0.4	0.2751033	0.05479316	9.74E-07
A	G	0.4	0.2584012	0.05511725	4.45E-06
C	G	0.44	0.2568828	0.05495581	4.73E-06
G	A	0.39	0.2584312	0.05569095	5.50E-06
T	C	0.39	0.2610867	0.05574687	4.54E-06
A	T	0.43	0.2592213	0.05502611	4.02E-06
A	T	0.44	0.2577398	0.05454508	3.77E-06
A	G	0.44	0.2687773	0.05477058	1.65E-06
G	A	0.44	0.2700662	0.05491315	1.57E-06
C	T	0.36	-0.2668178	0.0554085	2.51E-06
A	G	0.39	0.2672221	0.05641559	3.58E-06
C	T	0.43	0.2592213	0.05502611	4.02E-06
T	C	0.43	0.2585772	0.05508005	4.32E-06
C	T	0.4	0.2610085	0.05572451	4.53E-06
G	A	0.44	0.2497593	0.05503725	8.62E-06
G	A	0.44	0.2701226	0.05481466	1.50E-06
A	G	0.4	0.255498	0.05567469	6.89E-06
C	T	0.43	0.2607686	0.05504775	3.57E-06
T	C	0.44	0.2619694	0.05511012	3.32E-06
G	A	0.44	0.2567038	0.05493135	4.76E-06
TAA	T	0.44	0.2540844	0.0549996	6.02E-06
T	C	0.44	0.2582026	0.05496172	4.26E-06
A	C	0.44	0.2599776	0.05487951	3.57E-06
A	G	0.39	0.2582795	0.05563883	5.46E-06
C	G	0.42	0.2484379	0.05456458	8.07E-06
T	TCACA	0.33	0.2885494	0.06151711	4.40E-06
G	A	0.4	0.2484334	0.05502053	9.51E-06
A	AGTG	0.34	0.2866642	0.05811538	1.47E-06
G	A	0.39	0.2518311	0.05451206	6.02E-06
G	A	0.37	0.2510934	0.05547908	9.08E-06
G	A	0.37	0.267111	0.05427908	1.55E-06
A	T	0.03	-0.7885169	0.1736464	8.51E-06
G	C	0.03	-0.7600293	0.1687521	9.99E-06
C	G	0.03	-0.7600293	0.1687521	9.99E-06
T	A	0.01	1.351749	0.2709493	1.13E-06
G	A	0.01	1.193211	0.254306	4.37E-06
AG	A	0.01	1.279168	0.2701633	3.61E-06
C	A	0.49	-0.2522927	0.05538671	8.00E-06
T	A	0.49	-0.2573837	0.05543693	5.44E-06
A	G	0.49	-0.2517262	0.05539247	8.38E-06
T	C	0.49	-0.249403	0.05531207	9.77E-06
T	C	0.49	-0.2527844	0.05509863	6.93E-06
A	AT	0.48	-0.2514418	0.05498006	7.39E-06

A	G	0.49	-0.251885	0.05539218	8.27E-06
T	C	0.49	-0.249985	0.05531512	9.35E-06
C	G	0.49	-0.2508158	0.0554005	9.03E-06
T	C	0.49	-0.251885	0.05539218	8.27E-06
T	C	0.49	-0.251885	0.05539218	8.27E-06
T	C	0.49	-0.2512362	0.05539716	8.72E-06
T	C	0.49	-0.2505609	0.05531059	8.92E-06
T	C	0.49	-0.2548805	0.05547395	6.73E-06
G	A	0.49	-0.2533003	0.05547981	7.64E-06
T	C	0.49	-0.2520745	0.0553099	7.91E-06
G	A	0.49	-0.2529388	0.05540492	7.65E-06
C	G	0.49	-0.2520745	0.0553099	7.91E-06
T	G	0.49	-0.2520745	0.0553099	7.91E-06
T	A	0.49	-0.2509357	0.05531353	8.67E-06
G	T	0.49	-0.2509357	0.05531353	8.67E-06
G	A	0.49	-0.2529388	0.05540492	7.65E-06
T	C	0.49	-0.2523445	0.05540089	8.01E-06
C	T	0.49	-0.2488955	0.05515981	9.63E-06
C	T	0.49	-0.2509357	0.05531353	8.67E-06
A	G	0.49	-0.2504782	0.05522686	8.71E-06
C	T	0.49	-0.2509357	0.05531353	8.67E-06
G	A	0.49	-0.2509357	0.05531353	8.67E-06
C	T	0.49	-0.2496269	0.05523317	9.34E-06
A	G	0.49	-0.2509357	0.05531353	8.67E-06
A	G	0.49	-0.2502005	0.05523548	8.93E-06
G	A	0.49	-0.2515323	0.05504627	7.51E-06
A	G	0.49	-0.2526985	0.05513112	7.06E-06
C	T	0.49	-0.2526703	0.05531426	7.56E-06
C	T	0.49	-0.2509357	0.05531353	8.67E-06
A	G	0.49	-0.2509357	0.05531353	8.67E-06
G	A	0.49	-0.2496269	0.05523317	9.34E-06
A	G	0.49	-0.2496269	0.05523317	9.34E-06
A	G	0.49	-0.2520745	0.0553099	7.91E-06
C	A	0.49	-0.2496269	0.05523317	9.34E-06
C	A	0.49	-0.2517905	0.05521659	7.83E-06
T	C	0.49	-0.2523589	0.05521408	7.48E-06
C	T	0.49	-0.2515242	0.05531719	8.29E-06
T	C	0.49	-0.2502947	0.0553191	9.13E-06
T	C	0.49	-0.2498773	0.05532261	9.45E-06
A	C	0.49	-0.2484798	0.05515851	9.95E-06
T	C	0.49	-0.2509357	0.05531353	8.67E-06
A	T	0.49	-0.2529388	0.05540492	7.65E-06
C	G	0.49	-0.2497261	0.05523244	9.26E-06
C	T	0.49	-0.2520745	0.0553099	7.91E-06
T	C	0.49	-0.2498773	0.05532261	9.45E-06
TG	T	0.49	-0.2493599	0.05525182	9.60E-06
A	T	0.49	-0.2494218	0.05523836	9.51E-06
T	C	0.49	-0.2528267	0.05502831	6.73E-06
C	T	0.49	-0.2526703	0.05531426	7.56E-06
C	T	0.49	-0.2549901	0.05511463	5.85E-06

G	C	0.49	-0.257285	0.05492796	4.53E-06
G	T	0.49	-0.2502005	0.05523548	8.93E-06
T	C	0.49	-0.2498773	0.05532261	9.45E-06
C	T	0.49	-0.2496269	0.05523317	9.34E-06
C	T	0.49	-0.2496269	0.05523317	9.34E-06
C	A	0.49	-0.2496269	0.05523317	9.34E-06
C	T	0.49	-0.2520745	0.0553099	7.91E-06
A	G	0.49	-0.2509357	0.05531353	8.67E-06
A	G	0.49	-0.2520745	0.0553099	7.91E-06
C	T	0.49	-0.2509357	0.05531353	8.67E-06
C	T	0.49	-0.2502005	0.05523548	8.93E-06
A	C	0.49	-0.2520745	0.0553099	7.91E-06
G	C	0.49	-0.2521356	0.0552223	7.63E-06
A	G	0.49	-0.2520745	0.0553099	7.91E-06
G	A	0.49	-0.2523445	0.05540089	8.01E-06
C	T	0.49	-0.2545442	0.05528815	6.46E-06
G	A	0.02	0.7909384	0.1753653	9.72E-06
C	A	0.02	0.7909384	0.1753653	9.72E-06
A	G	0.46	0.2420526	0.0537374	9.97E-06
G	A	0.01	-1.198494	0.2518094	3.23E-06
C	T	0.49	0.2630812	0.0533409	1.47E-06
A	G	0.49	0.2635534	0.05350401	1.51E-06
A	G	0.49	0.267799	0.05339792	1.00E-06
A	G	0.49	0.256337	0.05350344	2.80E-06
C	T	0.49	0.2642459	0.05334616	1.33E-06
C	A	0.49	0.2642459	0.05334616	1.33E-06
C	T	0.49	0.2642459	0.05334616	1.33E-06
A	T	0.01	-1.088351	0.2400128	8.75E-06
A	G	0.01	-1.054408	0.2336706	9.63E-06
G	A	0.02	-0.9154139	0.2012769	8.25E-06
G	A	0.04	-0.6516825	0.1362212	2.89E-06
T	G	0.04	-0.6516825	0.1362212	2.89E-06
A	T	0.04	-0.6516825	0.1362212	2.89E-06
G	C	0.04	-0.6716844	0.1385872	2.18E-06
A	T	0.04	-0.6560808	0.1399816	4.47E-06
T	A	0.04	-0.6383685	0.137172	5.18E-06
A	G	0.04	-0.6621155	0.1371965	2.39E-06
A	G	0.45	-0.2472688	0.05433299	8.14E-06
G	GAAGGAAGGAAGA	0.03	-0.7793625	0.1638329	3.27E-06
G	A	0.46	-0.2606693	0.05290014	1.50E-06
C	A	0.45	-0.2592322	0.05318383	1.92E-06
C	T	0.01	-1.167314	0.2545514	6.99E-06
C	T	0.01	-1.135772	0.2464571	6.33E-06
A	C	0.01	-1.135772	0.2464571	6.33E-06
C	T	0.01	-1.135772	0.2464571	6.33E-06
C	G	0.02	-0.8352117	0.1804419	5.79E-06
G	T	0.02	-0.8352117	0.1804419	5.79E-06
C	T	0.02	-0.8352117	0.1804419	5.79E-06
C	G	0.02	-0.8352117	0.1804419	5.79E-06
A	T	0.03	0.7522092	0.1540341	1.84E-06

A	G	0.02	0.8430464	0.1826155	6.11E-06
A	G	0.01	-1.055951	0.2309748	7.44E-06
A	G	0.01	-1.055951	0.2309748	7.44E-06
G	C	0.01	-1.055951	0.2309748	7.44E-06
T	C	0.01	-1.055951	0.2309748	7.44E-06
TGATG	T	0.29	0.2824257	0.06252442	9.44E-06
G	GTCCGTCCTTCCT	0.01	-1.135048	0.237185	2.87E-06
G	A	0.42	0.2624411	0.05620845	4.84E-06
T	A	0.4	0.2769963	0.05615269	1.46E-06
CA	C	0.4	0.2850691	0.05597771	6.95E-07
A	G	0.41	0.2613256	0.05653522	5.95E-06
AAT	A	0.33	-0.2869105	0.06069565	3.74E-06
G	C	0.03	0.7778824	0.1644714	3.70E-06
G	A	0.07	0.5077714	0.1077303	3.98E-06
T	TTGTG	0.02	0.9807168	0.2128997	6.39E-06
C	T	0.01	1.064355	0.2312023	6.47E-06
C	A	0.01	1.064355	0.2312023	6.47E-06
CT	C	0.01	1.064355	0.2312023	6.47E-06
GTCA	G	0.05	0.6067368	0.1339164	8.89E-06
C	T	0.05	0.6067368	0.1339164	8.89E-06
A	T	0.04	0.6183376	0.1372118	9.88E-06
CTTAT	C	0.01	1.012398	0.2243959	9.66E-06
C	G	0.01	1.012398	0.2243959	9.66E-06
G	T	0.02	-1.024913	0.214843	3.08E-06
T	A	0.12	-0.3859297	0.08500341	8.54E-06
G	A	0.02	-0.9117271	0.1932889	3.91E-06
C	T	0.02	-1.212758	0.2113332	2.88E-08
G	T	0.02	-1.111788	0.203022	1.08E-07
G	A	0.02	-1.111788	0.203022	1.08E-07
C	T	0.01	-1.074709	0.2293831	4.51E-06
G	A	0.02	-1.11964	0.2072996	1.57E-07
C	T	0.02	-1.11964	0.2072996	1.57E-07
C	T	0.01	-1.163498	0.2423642	2.68E-06
A	G	0.02	-1.11964	0.2072996	1.57E-07
G	T	0.02	-1.11964	0.2072996	1.57E-07
A	T	0.02	-1.11964	0.2072996	1.57E-07
C	T	0.01	-1.083355	0.2355503	6.59E-06
G	A	0.01	-1.163498	0.2423642	2.68E-06
A	G	0.02	-1.127276	0.2123719	2.47E-07
C	CT	0.01	-1.163498	0.2423642	2.68E-06
CT	C	0.02	-1.18432	0.2119493	6.19E-08
G	A	0.02	-1.27575	0.2166234	1.32E-08
C	T	0.01	-1.163498	0.2423642	2.68E-06
C	T	0.02	-1.18432	0.2119493	6.19E-08
C	T	0.01	-0.5724083	0.09490691	6.24E-09
T	C	0.01	-0.5724083	0.09490691	6.24E-09
T	C	0.01	-0.5724083	0.09490691	6.24E-09
G	A	0.01	-0.5724083	0.09490691	6.24E-09
C	T	0.04	-0.4772102	0.07999742	9.58E-09
C	T	0.01	0.7671417	0.1252616	3.83E-09

A	T	0.02	0.6307981	0.1051372	7.49E-09
G	A	0.02	0.6208161	0.1031439	6.77E-09
T	C	0.02	0.6208161	0.1031439	6.77E-09
A	G	0.29	0.166019	0.02724	4.51E-09
G	T	0.28	0.1665274	0.02738518	4.86E-09
T	A	0.28	0.1618258	0.02702564	7.95E-09
A	T	0.28	0.1653121	0.02717116	4.78E-09
G	A	0.29	0.166019	0.02724	4.51E-09
T	A	0.29	0.1670688	0.02723488	3.65E-09
C	T	0.28	0.1709509	0.02719166	1.61E-09
A	G	0.29	0.1651119	0.02725536	5.49E-09
C	T	0.22	-0.2358583	0.03934552	7.87E-09
C	T	0.02	-0.8427571	0.1367389	3.30E-09
A	G	0.03	0.6574285	0.1082782	5.05E-09
TA	T	0.03	0.5877745	0.09623034	4.16E-09
A	T	0.04	0.4720392	0.07654123	3.07E-09
G	A	0.01	0.6230341	0.1041036	6.86E-09
T	C	0.11	-0.2124831	0.03568537	8.08E-09
A	G	0.01	0.5861147	0.09607019	3.59E-09
A	C	0.01	0.5861147	0.09607019	3.59E-09
C	T	0.01	0.5861147	0.09607019	3.59E-09
G	A	0.01	0.5861147	0.09607019	3.59E-09
C	A	0.01	0.5861147	0.09607019	3.59E-09
G	A	0.01	0.5861147	0.09607019	3.59E-09
G	A	0.01	0.5861147	0.09607019	3.59E-09
T	A	0.02	1.044938	0.1736043	6.88E-09
T	C	0.01	-0.799365	0.1343811	8.58E-09
T	G	0.04	-0.4003534	0.06730647	8.70E-09
G	A	0.04	-0.4003534	0.06730647	8.70E-09
G	A	0.04	-0.4104124	0.0678265	5.02E-09
A	G	0.04	-0.4003534	0.06730647	8.70E-09
A	C	0.04	-0.4003534	0.06730647	8.70E-09
A	G	0.04	-0.4003534	0.06730647	8.70E-09
T	G	0.04	-0.4003534	0.06730647	8.70E-09
C	CA	0.04	-0.4003534	0.06730647	8.70E-09
AAC	A	0.04	-0.4003534	0.06730647	8.70E-09
C	A	0.04	-0.4003534	0.06730647	8.70E-09
T	G	0.04	-0.4003534	0.06730647	8.70E-09
T	A	0.04	-0.4003534	0.06730647	8.70E-09
G	A	0.04	-0.4003534	0.06730647	8.70E-09
G	T	0.04	-0.4026154	0.06776495	9.02E-09
C	A	0.04	-0.4003534	0.06730647	8.70E-09
C	A	0.04	-0.4003534	0.06730647	8.70E-09
G	T	0.02	0.7849245	0.1272596	2.49E-09
T	A	0.02	0.8136743	0.1372523	9.11E-09
T	A	0.02	0.8654149	0.1392685	1.93E-09
G	A	0.02	0.8654149	0.1392685	1.93E-09
C	T	0.02	0.8654149	0.1392685	1.93E-09
C	A	0.02	0.8654149	0.1392685	1.93E-09
CAA	C	0.02	0.8654149	0.1392685	1.93E-09

A	G	0.02	0.8654149	0.1392685	1.93E-09
G	A	0.02	0.8654149	0.1392685	1.93E-09
C	A	0.02	0.8654149	0.1392685	1.93E-09
G	A	0.02	0.8654149	0.1392685	1.93E-09
T	C	0.02	0.8654149	0.1392685	1.93E-09
G	C	0.02	0.8654149	0.1392685	1.93E-09
TG	T	0.02	0.8654149	0.1392685	1.93E-09
G	A	0.02	0.8654149	0.1392685	1.93E-09
T	TAAACA	0.02	0.8654149	0.1392685	1.93E-09
A	G	0.02	0.8654149	0.1392685	1.93E-09
C	T	0.02	0.8654149	0.1392685	1.93E-09
T	TAA	0.02	0.8654149	0.1392685	1.93E-09
C	T	0.02	0.8654149	0.1392685	1.93E-09
A	G	0.02	0.8654149	0.1392685	1.93E-09
T	C	0.02	0.8654149	0.1392685	1.93E-09
G	T	0.02	0.8654149	0.1392685	1.93E-09
T	G	0.02	0.81701	0.1346438	4.30E-09
A	C	0.02	0.7900955	0.1332732	9.11E-09
G	A	0.01	0.6736855	0.1067998	1.51E-09
T	C	0.11	0.3096189	0.05079684	3.90E-09
C	G	0.11	0.303009	0.05013684	5.15E-09
T	C	0.11	0.3078123	0.05105089	5.56E-09
A	G	0.11	0.301914	0.05047808	7.21E-09
G	C	0.11	0.3078123	0.05105089	5.56E-09
T	G	0.11	0.3078123	0.05105089	5.56E-09
T	G	0.11	0.3138099	0.05045101	1.98E-09
T	C	0.02	0.9737744	0.1523932	7.63E-10
A	AG	0.02	0.9307759	0.1459383	8.16E-10
TTAAA	T	0.02	0.9307759	0.1459383	8.16E-10
G	A	0.02	0.9307759	0.1459383	8.16E-10
G	T	0.02	0.9307759	0.1459383	8.16E-10
T	C	0.02	0.9307759	0.1459383	8.16E-10
T	C	0.02	0.9307759	0.1459383	8.16E-10
C	T	0.02	0.9307759	0.1459383	8.16E-10
G	C	0.02	0.9307759	0.1459383	8.16E-10
A	AT	0.02	0.9307759	0.1459383	8.16E-10
ATTATT	A	0.02	0.9307759	0.1459383	8.16E-10
C	T	0.02	0.9307759	0.1459383	8.16E-10
C	T	0.02	0.9307759	0.1459383	8.16E-10
C	G	0.02	0.9307759	0.1459383	8.16E-10
A	AT	0.02	0.9307759	0.1459383	8.16E-10
G	A	0.02	0.9307759	0.1459383	8.16E-10
C	CAAACA	0.02	0.9307759	0.1459383	8.16E-10
A	T	0.02	0.9307759	0.1459383	8.16E-10
A	ACACACACT	0.02	0.8746416	0.1428027	3.29E-09
TTTGTTGTTG	T	0.02	0.9737744	0.1523932	7.63E-10
C	G	0.01	0.9805737	0.1602022	3.36E-09
A	G	0.01	0.958561	0.1606352	7.69E-09
T	G	0.02	0.7354397	0.1232468	7.69E-09
T	C	0.11	0.303962	0.04784249	1.18E-09

C	G	0.11	0.3068294	0.04714262	5.04E-10
A	G	0.11	0.2938753	0.04749635	2.88E-09
T	C	0.11	0.299729	0.04811434	2.30E-09
A	G	0.11	0.2953962	0.04753688	2.50E-09
G	C	0.11	0.299729	0.04811434	2.30E-09
C	T	0.11	0.2856663	0.04745334	6.99E-09
T	G	0.11	0.299729	0.04811434	2.30E-09
T	G	0.11	0.3041809	0.0475142	9.04E-10
G	A	0.12	0.2877287	0.04611839	2.18E-09
G	A	0.12	0.2877287	0.04611839	2.18E-09
C	T	0.12	0.2877287	0.04611839	2.18E-09
C	T	0.02	1.241527	0.1971149	1.90E-09
T	C	0.02	-0.875092	0.1464749	8.17E-09
GCACACA	G	0.03	-0.5969106	0.09885893	5.81E-09
T	C	0.02	-0.8945227	0.1930625	5.33E-06
C	T	0.02	-0.8340231	0.184186	8.49E-06
G	A	0.02	-0.8945227	0.1930625	5.33E-06
T	C	0.02	-0.8945227	0.1930625	5.33E-06
A	G	0.02	-0.8945227	0.1930625	5.33E-06
A	C	0.02	-0.8945227	0.1930625	5.33E-06
C	T	0.02	-0.8945227	0.1930625	5.33E-06
TA	T	0.02	-0.8945227	0.1930625	5.33E-06
A	C	0.02	-0.8945227	0.1930625	5.33E-06
G	A	0.02	-0.8945227	0.1930625	5.33E-06
T	C	0.02	-0.8945227	0.1930625	5.33E-06
G	A	0.02	-0.8945227	0.1930625	5.33E-06
C	A	0.02	-0.8945227	0.1930625	5.33E-06
G	A	0.02	-0.8945227	0.1930625	5.33E-06
C	T	0.02	-0.8945227	0.1930625	5.33E-06
A	G	0.02	-0.8945227	0.1930625	5.33E-06
A	G	0.02	-0.8945227	0.1930625	5.33E-06
C	T	0.02	-0.9196328	0.1949689	3.66E-06
T	A	0.02	-0.8945227	0.1930625	5.33E-06
CA	C	0.49	-0.2424706	0.05276651	6.31E-06
A	T	0.5	-0.2426103	0.05284424	6.43E-06
GTCTC	G	0.26	-0.2690285	0.05752185	4.38E-06
G	A	0.43	-0.2590358	0.05418171	2.73E-06
G	A	0.43	-0.2640967	0.05412541	1.73E-06
A	G	0.33	-0.2623301	0.05815223	9.15E-06
T	C	0.01	-1.186827	0.2631257	9.17E-06
C	T	0.18	0.3067319	0.06682776	6.46E-06
C	A	0.23	-0.3039459	0.06620588	6.43E-06
TACAC	T	0.01	-1.255352	0.2536242	1.25E-06
T	C	0.01	-1.163347	0.2509134	5.25E-06
T	A	0.1	-0.4378803	0.09494635	5.86E-06
G	A	0.01	-1.044097	0.2287978	7.27E-06
T	A	0.02	0.8758453	0.1888194	5.20E-06
AAC	A	0.01	-1.211037	0.2414678	9.15E-07
C	T	0.47	0.2442131	0.05258928	5.08E-06
G	A	0.47	0.2484761	0.05257729	3.51E-06

C	T	0.47	0.2615289	0.05249522	1.07E-06
G	C	0.47	0.2500332	0.05245539	2.92E-06
GCAAA	G	0.46	0.2500072	0.05242219	2.88E-06
C	T	0.47	0.2634168	0.05254861	9.26E-07
C	G	0.49	-0.2598282	0.0522645	1.13E-06
G	T	0.37	0.2468166	0.0545369	8.58E-06
A	G	0.47	-0.2340909	0.05085564	6.10E-06
G	T	0.05	-0.5914845	0.125515	3.73E-06
CAT	C	0.01	-1.162126	0.2244945	4.22E-07
C	A	0.02	-0.8758112	0.1885857	5.07E-06
G	GGTGTGTGT	0.02	-1.002564	0.1937616	4.27E-07
C	T	0.02	-0.8838187	0.1811906	1.75E-06
T	C	0.02	-0.8838187	0.1811906	1.75E-06
T	A	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8838187	0.1811906	1.75E-06
A	G	0.02	-0.8838187	0.1811906	1.75E-06
T	G	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8838187	0.1811906	1.75E-06
C	T	0.02	-0.8838187	0.1811906	1.75E-06
C	T	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8838187	0.1811906	1.75E-06
G	C	0.02	-0.8838187	0.1811906	1.75E-06
C	T	0.02	-0.8838187	0.1811906	1.75E-06
T	C	0.02	-0.8838187	0.1811906	1.75E-06
A	G	0.02	-0.8838187	0.1811906	1.75E-06
T	C	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8850847	0.182969	2.11E-06
T	TAA	0.01	-1.09087	0.208181	3.10E-07
G	A	0.02	-0.8838187	0.1811906	1.75E-06
G	C	0.02	-0.8838187	0.1811906	1.75E-06
C	T	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8838187	0.1811906	1.75E-06
G	A	0.02	-0.8838187	0.1811906	1.75E-06
C	G	0.02	-0.8880491	0.1845419	2.37E-06
G	A	0.02	-0.828963	0.1830165	8.44E-06
T	C	0.02	-0.9078871	0.1880817	2.21E-06
G	T	0.02	-0.9078871	0.1880817	2.21E-06
G	C	0.02	-0.9078871	0.1880817	2.21E-06
C	T	0.02	-0.9078871	0.1880817	2.21E-06
G	A	0.04	-0.6318075	0.1380841	6.89E-06
A	G	0.01	-1.065813	0.2337133	7.37E-06
G	A	0.04	-0.6710947	0.1422507	3.64E-06
C	A	0.04	-0.6710947	0.1422507	3.64E-06
A	G	0.04	-0.6710947	0.1422507	3.64E-06
G	A	0.04	-0.6710947	0.1422507	3.64E-06
A	C	0.04	-0.6710947	0.1422507	3.64E-06
C	T	0.04	-0.6635865	0.1444598	6.36E-06
A	T	0.04	-0.6710947	0.1422507	3.64E-06
T	C	0.04	-0.6710947	0.1422507	3.64E-06
C	T	0.04	-0.6913466	0.1434638	2.29E-06

T	C	0.04	-0.6710947	0.1422507	3.64E-06
A	G	0.04	-0.6710947	0.1422507	3.64E-06
G	A	0.04	-0.6577175	0.1433174	6.48E-06
G	A	0.04	-0.6710947	0.1422507	3.64E-06
A	G	0.04	-0.6710947	0.1422507	3.64E-06
A	C	0.04	-0.6710947	0.1422507	3.64E-06
G	A	0.01	-1.185406	0.243583	1.84E-06
A	G	0.02	-0.9387509	0.2039067	6.07E-06
A	G	0.01	-1.292687	0.2550063	7.08E-07
C	G	0.01	-1.292687	0.2550063	7.08E-07
G	A	0.01	-1.292687	0.2550063	7.08E-07
G	A	0.01	-1.292687	0.2550063	7.08E-07
G	A	0.01	-1.188124	0.2312169	5.07E-07
G	T	0.01	-1.2457	0.2622212	3.14E-06
T	C	0.01	-1.292687	0.2550063	7.08E-07
G	A	0.01	-1.292687	0.2550063	7.08E-07
T	TCAAA	0.01	-1.051669	0.2332444	9.24E-06
G	A	0.02	-0.9375553	0.2049933	6.95E-06
C	T	0.02	-0.9455965	0.2016642	4.15E-06
TAGAG	T	0.02	-0.9455965	0.2016642	4.15E-06
A	AGT	0.02	-0.9455965	0.2016642	4.15E-06
C	T	0.02	-0.9455965	0.2016642	4.15E-06
AG	A	0.02	-0.9455965	0.2016642	4.15E-06
G	C	0.02	-0.9455965	0.2016642	4.15E-06
C	T	0.02	-0.9455965	0.2016642	4.15E-06
T	C	0.21	-0.3007839	0.06375366	3.64E-06
C	CT	0.32	0.2612933	0.05790192	9.09E-06
G	A	0.05	-0.6503539	0.132846	1.61E-06
T	C	0.01	-1.039676	0.2256217	5.96E-06
C	T	0.02	-0.9831119	0.1906266	4.63E-07
T	TACACAC	0.07	-0.4844274	0.1066838	8.03E-06
A	G	0.01	-1.298727	0.2811929	5.69E-06
C	G	0.01	-1.252478	0.2700742	5.23E-06
T	TCTAG	0.01	-1.123243	0.2335608	2.40E-06
T	TA	0.4	0.2481395	0.05400814	6.33E-06
A	G	0.05	-0.6326514	0.1337169	3.42E-06
A	AGTGTGTGTGT	0.02	-0.8865716	0.1967473	9.35E-06
T	C	0.31	-0.2716303	0.05949529	7.20E-06
T	G	0.31	-0.2807601	0.06040644	4.99E-06
C	T	0.31	-0.2780039	0.06057611	6.48E-06
G	A	0.29	-0.2998781	0.06068154	1.29E-06
A	G	0.31	-0.2783915	0.06028555	5.71E-06
C	G	0.31	-0.2744902	0.05987025	6.61E-06
A	G	0.31	-0.2668027	0.05916877	9.23E-06
A	G	0.31	-0.271802	0.06011876	8.76E-06
T	C	0.3	-0.2773502	0.06044417	6.50E-06
T	TG	0.32	-0.2743341	0.05878788	4.59E-06
T	C	0.31	-0.292452	0.05953597	1.49E-06
T	C	0.34	-0.2618155	0.05603576	4.47E-06
T	C	0.31	-0.2783915	0.06028555	5.71E-06

T	C	0.31	-0.2974766	0.05985551	1.13E-06
A	G	0.31	-0.2974766	0.05985551	1.13E-06
C	T	0.01	-1.231521	0.2564834	2.48E-06
C	T	0.02	-0.9154496	0.1983167	5.75E-06
C	G	0.04	-0.6731803	0.1371216	1.51E-06
C	A	0.12	0.4083846	0.0859312	3.11E-06
C	T	0.11	0.3997775	0.0865479	5.67E-06
C	G	0.03	-0.7226029	0.1602817	9.26E-06
A	G	0.02	-0.7973315	0.1763813	8.78E-06
T	G	0.02	-1.000206	0.1810942	7.52E-08
C	A	0.06	-0.5544635	0.1184069	4.27E-06
CT	C	0.04	-0.6132828	0.1326288	5.55E-06
G	GC	0.02	-0.8761396	0.1916521	7.01E-06
C	A	0.04	-0.6572609	0.1438478	7.09E-06
A	T	0.02	-0.9531046	0.1990857	2.65E-06
C	T	0.01	-1.072105	0.2320401	5.64E-06
C	T	0.08	-0.4378617	0.09677067	8.62E-06
AT	A	0.02	-0.9122531	0.1922749	3.22E-06
G	A	0.02	-0.8689081	0.1929195	9.44E-06
G	T	0.38	-0.2363838	0.05140575	6.22E-06
C	A	0.02	-1.044375	0.2062284	7.25E-07
T	C	0.48	-0.2590768	0.05632238	6.18E-06
ATC	A	0.04	-0.5680236	0.1262762	9.68E-06
G	A	0.24	-0.287415	0.06150617	4.46E-06
T	C	0.12	-0.4357203	0.08364214	3.60E-07
G	A	0.47	-0.2404488	0.05332935	9.24E-06
C	A	0.01	-0.7582787	0.1160084	3.15E-10
G	A	0.12	-0.2732813	0.04538363	5.88E-09
T	C	0.12	-0.2707302	0.0452393	7.17E-09
G	GAAGA	0.08	-0.2428902	0.04070778	7.42E-09
C	G	0.02	-0.4070842	0.06810777	7.03E-09
G	C	0.02	-0.4199242	0.06964356	5.30E-09
G	A	0.02	-0.4070842	0.06810777	7.03E-09
A	G	0.02	-0.4070842	0.06810777	7.03E-09
T	C	0.01	-0.6842197	0.1154492	9.26E-09
G	A	0.01	-0.6842197	0.1154492	9.26E-09
C	A	0.01	-0.6842197	0.1154492	9.26E-09
C	T	0.02	-0.8962373	0.1448061	2.79E-09
A	C	0.02	-0.8962373	0.1448061	2.79E-09
T	C	0.12	-0.2190166	0.03576914	3.27E-09
G	GAAGA	0.08	-0.4847173	0.07913635	4.15E-09
ATCTG	A	0.01	-0.745714	0.1249753	7.39E-09
C	T	0.01	-0.7399814	0.1221456	4.52E-09
A	C	0.01	-0.7399814	0.1221456	4.52E-09
C	T	0.01	-0.9474998	0.1478742	7.92E-10
A	C	0.01	-0.9474998	0.1478742	7.92E-10
A	G	0.02	-0.4464118	0.07508478	8.35E-09
C	T	0.01	-0.5286449	0.08447841	1.52E-09
C	T	0.01	-0.5112217	0.0863264	9.47E-09
C	T	0.02	-0.4767077	0.07960965	7.27E-09

T	C	0.02	-0.4767077	0.07960965	7.27E-09
T	A	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
A	G	0.02	-0.4767077	0.07960965	7.27E-09
T	G	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
C	T	0.02	-0.4767077	0.07960965	7.27E-09
C	T	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
G	C	0.02	-0.4767077	0.07960965	7.27E-09
C	T	0.02	-0.4767077	0.07960965	7.27E-09
T	C	0.02	-0.4767077	0.07960965	7.27E-09
A	G	0.02	-0.4767077	0.07960965	7.27E-09
T	C	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
G	C	0.02	-0.4767077	0.07960965	7.27E-09
C	T	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
G	A	0.02	-0.4767077	0.07960965	7.27E-09
C	G	0.02	-0.4846592	0.08164665	9.58E-09
T	C	0.02	-0.4950136	0.08325035	9.09E-09
G	T	0.02	-0.4950136	0.08325035	9.09E-09
G	C	0.02	-0.4950136	0.08325035	9.09E-09
C	T	0.02	-0.4950136	0.08325035	9.09E-09
TATGTC	T	0.04	-0.3124566	0.05261035	9.19E-09
G	A	0.02	0.6675835	0.1121862	8.05E-09
CG	C	0.02	0.6675835	0.1121862	8.05E-09
T	C	0.02	0.6675835	0.1121862	8.05E-09
G	A	0.02	0.6675835	0.1121862	8.05E-09
G	A	0.02	0.6675835	0.1121862	8.05E-09
ATGTGTGTG	A	0.01	-0.6118882	0.1007263	4.90E-09
C	T	0.01	-0.7841859	0.1301674	5.42E-09
A	C	0.01	-0.7841859	0.1301674	5.42E-09
C	T	0.01	-0.5935494	0.09846759	5.36E-09
A	G	0.02	-0.5476192	0.08844677	2.21E-09
G	A	0.02	-0.9210637	0.2036776	8.71E-06
C	T	0.02	-0.9210637	0.2036776	8.71E-06
G	T	0.01	-1.217423	0.243703	1.00E-06
C	CTT	0.05	-0.4665016	0.1021984	7.22E-06
G	A	0.01	-1.287776	0.2593318	1.16E-06
C	T	0.12	0.3632824	0.0799775	7.97E-06
G	A	0.13	0.364335	0.0800938	7.75E-06
T	G	0.01	-1.036961	0.2266151	6.87E-06
G	GT	0.25	-0.3420709	0.06345028	1.46E-07
A	T	0.05	0.5813954	0.1238622	4.05E-06
C	T	0.08	0.5119654	0.1033326	1.22E-06
C	T	0.07	0.4906246	0.1061384	5.59E-06
C	G	0.15	-0.3845406	0.0759206	7.22E-07
C	T	0.15	-0.4026205	0.07477847	1.51E-07
G	A	0.14	-0.3670485	0.07586482	2.10E-06

CT	C	0.15	-0.3481697	0.0733245	3.17E-06
G	T	0.14	-0.3634402	0.07629132	2.95E-06
T	C	0.14	-0.3753848	0.07567008	1.18E-06
G	A	0.06	-0.4966003	0.110534	9.91E-06
C	T	0.06	-0.4966003	0.110534	9.91E-06
G	C	0.07	-0.5244346	0.09615624	1.07E-07
T	A	0.06	-0.4966003	0.110534	9.91E-06
C	T	0.06	-0.4966003	0.110534	9.91E-06
G	A	0.06	-0.4795237	0.102558	4.40E-06
C	A	0.06	-0.4966003	0.110534	9.91E-06
C	T	0.06	-0.4966003	0.110534	9.91E-06
C	A	0.06	-0.4966003	0.110534	9.91E-06
T	C	0.06	-0.4966003	0.110534	9.91E-06
G	A	0.05	-0.5595781	0.1181434	3.34E-06
A	G	0.05	-0.5330663	0.1184194	9.54E-06
G	A	0.05	-0.5030307	0.1099781	6.93E-06
A	C	0.05	-0.5396065	0.1191647	8.48E-06
G	T	0.05	-0.5268958	0.1126285	4.35E-06
GA	G	0.11	-0.3725721	0.08207614	8.08E-06
A	AGTGTGTGT	0.05	-0.5836671	0.1290958	8.75E-06
C	T	0.02	-1.105247	0.1964519	4.44E-08
G	GGT	0.09	0.4463659	0.09843784	8.25E-06
C	T	0.07	-0.4731809	0.1011385	4.34E-06
C	G	0.07	-0.472037	0.1002678	3.81E-06
A	G	0.03	-0.6878081	0.1522102	8.84E-06
T	C	0.06	-0.5470759	0.111013	1.38E-06
A	G	0.35	-0.2491558	0.05491225	8.15E-06
T	C	0.39	0.2689556	0.05424021	1.20E-06
G	A	0.39	0.2667053	0.05417927	1.42E-06
T	TC	0.38	0.2646749	0.05437563	1.83E-06
T	C	0.39	0.2667132	0.05418197	1.42E-06
A	G	0.39	0.2667053	0.05417927	1.42E-06
A	C	0.39	0.2637659	0.05426528	1.89E-06
T	C	0.39	0.2634026	0.05422246	1.91E-06
A	AG	0.38	0.2700954	0.05418933	1.06E-06
A	G	0.39	0.2512771	0.05436369	5.60E-06
AAAAT	A	0.38	0.2475382	0.05447746	7.92E-06
G	A	0.39	0.2627083	0.05419502	2.01E-06
T	C	0.39	0.2667053	0.05417927	1.42E-06
G	A	0.39	0.274303	0.05420595	7.38E-07
A	G	0.39	0.2667053	0.05417927	1.42E-06
C	A	0.39	0.2649992	0.05415922	1.63E-06
G	A	0.39	0.2512771	0.05436369	5.60E-06
G	C	0.39	0.2662193	0.05415618	1.46E-06
T	TCTC	0.38	0.2735378	0.05412078	7.60E-07
A	C	0.39	0.2637659	0.05426528	1.89E-06
C	T	0.39	0.2512771	0.05436369	5.60E-06
CTGT	C	0.39	0.2629734	0.05424492	2.00E-06
T	C	0.39	0.2647733	0.05420925	1.69E-06
T	C	0.39	0.2637659	0.05426528	1.89E-06

G	T	0.39	0.2663377	0.05413661	1.43E-06
G	T	0.41	0.2565966	0.0533576	2.40E-06
GTTC	G	0.41	0.2550674	0.05330597	2.68E-06
G	A	0.41	0.2515645	0.0533488	3.68E-06
T	TG	0.02	-0.9079498	0.1923248	3.59E-06
A	AAC	0.06	0.5427461	0.1204392	9.34E-06
G	A	0.06	-0.5366676	0.110473	1.91E-06
T	C	0.06	-0.5238085	0.1097178	2.81E-06
A	G	0.03	-0.7973226	0.1535286	3.89E-07
G	T	0.06	-0.514929	0.1086232	3.28E-06
G	A	0.06	-0.514929	0.1086232	3.28E-06
C	T	0.03	-0.7674724	0.1563711	1.52E-06
G	A	0.06	-0.514929	0.1086232	3.28E-06
G	C	0.06	-0.514929	0.1086232	3.28E-06
A	G	0.06	-0.5016388	0.1092953	6.46E-06
C	T	0.06	-0.514929	0.1086232	3.28E-06
C	T	0.06	-0.514929	0.1086232	3.28E-06
G	A	0.06	-0.514929	0.1086232	3.28E-06
TTA	T	0.15	-0.3623198	0.07831478	5.49E-06
G	A	0.33	-0.257752	0.05720922	9.38E-06
A	C	0.32	-0.2616973	0.057004	6.43E-06
A	AC	0.14	-0.3883759	0.07965053	1.76E-06
C	A	0.32	-0.2711566	0.05831643	4.95E-06
T	A	0.32	-0.2756457	0.05832562	3.51E-06
G	C	0.32	-0.2777409	0.05834892	3.00E-06
C	T	0.17	0.3461151	0.07123361	1.91E-06
A	G	0.17	0.3339894	0.07125429	4.18E-06
A	G	0.17	0.3314381	0.07183026	5.80E-06
A	G	0.16	0.3310029	0.07210285	6.44E-06
G	A	0.2	0.3102011	0.06756231	6.42E-06
A	G	0.16	0.3333064	0.07205592	5.51E-06
G	A	0.16	0.3246661	0.0719516	9.10E-06
T	C	0.16	0.3265028	0.07226134	8.86E-06
A	G	0.17	0.3307394	0.07144925	5.43E-06
TA	T	0.03	-0.7120755	0.1568838	8.10E-06
A	T	0.01	1.032171	0.2259002	7.08E-06
C	T	0.01	1.032171	0.2259002	7.08E-06
T	C	0.01	1.032171	0.2259002	7.08E-06
C	T	0.02	1.04141	0.2118314	1.46E-06
T	TATCC	0.1	0.4275833	0.09408659	7.89E-06
C	G	0.1	0.4385207	0.09013734	1.85E-06
C	T	0.1	0.4463687	0.09017623	1.25E-06
G	T	0.09	0.4468197	0.09341024	2.70E-06
C	T	0.09	0.4240016	0.09380787	8.80E-06
T	G	0.09	0.4291145	0.09293896	5.72E-06
A	C	0.09	0.4291145	0.09293896	5.72E-06
A	G	0.09	0.4291145	0.09293896	5.72E-06
CA	C	0.08	0.4707621	0.1006333	4.36E-06
G	A	0.09	0.422225	0.09391208	9.77E-06
C	G	0.09	0.4451737	0.09339583	2.91E-06

G	A	0.33	-0.2768843	0.0575883	2.41E-06
T	C	0.33	-0.2936292	0.0574563	5.80E-07
A	C	0.33	-0.2793175	0.05754467	1.95E-06
A	G	0.33	-0.2794916	0.0574057	1.82E-06
G	T	0.33	-0.2808766	0.05739675	1.62E-06
TATTA	T	0.33	-0.289003	0.05783247	9.96E-07
C	T	0.33	-0.2936292	0.0574563	5.80E-07
T	C	0.33	-0.2768843	0.0575883	2.41E-06
T	C	0.33	-0.2808766	0.05739675	1.62E-06
A	G	0.33	-0.2797535	0.05732179	1.72E-06
C	T	0.33	-0.2836317	0.05735608	1.27E-06
T	C	0.33	-0.291057	0.05720248	6.46E-07
T	C	0.32	-0.2933012	0.05741819	5.87E-07
T	C	0.32	-0.2920265	0.05716535	5.86E-07
T	A	0.27	-0.2899232	0.05866298	1.29E-06
C	A	0.27	-0.2779961	0.05886421	3.56E-06
C	A	0.28	-0.2684623	0.0585353	6.56E-06
C	T	0.28	-0.2799529	0.05829287	2.47E-06
A	G	0.27	-0.2851003	0.05867962	1.91E-06
G	A	0.27	-0.2773877	0.05828355	3.01E-06
C	T	0.03	-0.7608532	0.1644738	5.50E-06
A	G	0.04	-0.5923403	0.1281412	5.59E-06
A	G	0.08	-0.4407504	0.09785996	9.44E-06
G	A	0.07	-0.535941	0.1069989	9.43E-07
A	C	0.22	-0.2914858	0.06399173	7.54E-06
G	C	0.36	0.2837429	0.05621744	7.86E-07
G	A	0.01	-1.045581	0.2215125	3.60E-06
G	A	0.01	-1.045581	0.2215125	3.60E-06
A	G	0.49	0.2422331	0.05122067	3.45E-06
G	A	0.21	-0.3281237	0.06649725	1.34E-06
C	G	0.05	-0.6179204	0.1310844	3.70E-06
G	A	0.03	-0.6515005	0.1406994	5.39E-06
G	A	0.29	0.2607733	0.05586354	4.56E-06
G	C	0.3	0.261153	0.05570162	4.16E-06
G	A	0.29	0.2591644	0.0563446	6.19E-06
T	G	0.01	-1.161131	0.2536278	6.81E-06
CT	C	0.01	-1.106624	0.2457491	9.47E-06
G	A	0.2	0.3142948	0.06745218	4.73E-06
G	A	0.2	0.3109771	0.06803352	7.03E-06
A	G	0.2	0.3109771	0.06803352	7.03E-06
C	T	0.2	0.3236315	0.0683683	3.39E-06
A	G	0.2	0.3225726	0.06807677	3.31E-06
A	G	0.14	-0.3429214	0.07322089	4.25E-06
A	G	0.03	0.7074683	0.150812	4.11E-06
G	A	0.04	0.6081114	0.1296577	4.12E-06
G	A	0.01	1.177351	0.2566907	6.55E-06
A	T	0.36	-0.2424326	0.04922004	1.40E-06
GGAGAA	G	0.05	0.5736188	0.1215036	3.59E-06
G	C	0.02	0.8203222	0.1749706	4.16E-06
G	C	0.02	0.8405742	0.1792464	4.14E-06

T	C	0.02	0.8405742	0.1792464	4.14E-06
G	A	0.03	0.3629297	0.0612266	9.34E-09
C	T	0.02	-0.3668912	0.0594297	2.41E-09
C	T	0.02	-0.4351012	0.07290267	8.16E-09
C	T	0.03	-0.3253712	0.05418344	6.07E-09
GGTGTGTGTGTGT	G	0.01	-0.8823665	0.1432553	2.60E-09
G	GTGTGTGTGTGTGTG	0.04	-0.2940024	0.04797395	3.09E-09
A	G	0.01	-0.687467	0.1120667	3.20E-09
T	G	0.06	0.5239172	0.1090385	2.44E-06
C	T	0.06	0.5379752	0.1125022	2.72E-06
T	C	0.06	0.5154041	0.1120766	6.21E-06
T	A	0.06	0.5154041	0.1120766	6.21E-06
G	C	0.06	0.5411311	0.1152141	4.00E-06
STATATGTATATGTAT.	C	0.11	-0.3907965	0.0859152	7.75E-06
G	A	0.08	0.4650521	0.09835069	3.47E-06
G	A	0.06	0.5337174	0.1159234	6.07E-06
C	A	0.01	-1.145539	0.2535538	8.88E-06
C	G	0.01	-1.145539	0.2535538	8.88E-06
C	T	0.04	0.6434717	0.1377836	4.51E-06
T	C	0.3	0.2660416	0.05551816	2.59E-06
G	T	0.06	-0.5568235	0.1084165	5.13E-07
A	T	0.06	-0.5568235	0.1084165	5.13E-07
G	A	0.06	-0.5415897	0.1095345	1.28E-06
T	C	0.17	0.3245648	0.07149419	8.06E-06
G	A	0.09	0.4286158	0.09221586	4.98E-06
\ATTATTAATGGTATT/	T	0.09	0.4229507	0.09251557	7.00E-06
C	T	0.09	0.4286158	0.09221586	4.98E-06
G	A	0.1	0.41226	0.09175776	9.90E-06
C	T	0.09	0.4218288	0.09291203	8.05E-06
G	A	0.06	0.4760416	0.1058725	9.76E-06
A	C	0.25	-0.2850068	0.06064323	3.95E-06
G	A	0.25	-0.2747207	0.06084277	8.98E-06
G	A	0.25	-0.2763096	0.06109394	8.69E-06
GAGGGGAGGGGA	G	0.25	-0.2729671	0.06001022	7.75E-06
T	A	0.4	-0.264839	0.05397079	1.52E-06
CAGTATT	C	0.02	-0.7771716	0.1704617	7.40E-06
G	A	0.03	-0.7436639	0.1628633	7.18E-06
C	G	0.02	-0.9941554	0.2000062	1.13E-06
T	C	0.02	-0.916787	0.1972668	5.00E-06
G	C	0.02	-1.007494	0.20062	8.86E-07
TACACACACACAC	T	0.02	-0.9892935	0.208228	3.13E-06
C	G	0.02	-0.9120682	0.181822	9.10E-07
A	AC	0.09	-0.4486706	0.097151	5.69E-06
C	T	0.09	-0.4359609	0.09595857	7.94E-06
GA	G	0.09	-0.4462841	0.09610376	5.08E-06
C	A	0.09	-0.4455926	0.09574831	4.86E-06
T	C	0.09	-0.4372968	0.0959869	7.51E-06
C	T	0.07	-0.4933066	0.1026013	2.41E-06
G	C	0.08	-0.4506479	0.09805655	6.29E-06
C	A	0.09	-0.4356279	0.09616412	8.42E-06

G	A	0.08	-0.4490618	0.09834165	7.17E-06
T	A	0.09	-0.4356279	0.09616412	8.42E-06
G	A	0.08	-0.4469963	0.09676529	5.66E-06
C	T	0.09	-0.4356279	0.09616412	8.42E-06
G	A	0.09	-0.4356279	0.09616412	8.42E-06
A	G	0.02	-0.8644608	0.1761356	1.52E-06
T	C	0.15	0.3587009	0.07679684	4.50E-06
CT	C	0.28	-0.2588471	0.05676218	7.37E-06
G	A	0.3	-0.2537845	0.05604526	8.48E-06
TC	T	0.28	-0.2589202	0.0567577	7.31E-06
A	G	0.4	-0.2480327	0.05394482	6.23E-06
GA	G	0.28	-0.2585834	0.05725384	8.93E-06
C	T	0.4	-0.2460475	0.05414096	7.89E-06
G	T	0.27	-0.2590993	0.05737359	8.95E-06
C	T	0.31	-0.250216	0.05542375	9.01E-06
G	A	0.28	-0.2597235	0.05673825	6.82E-06
G	A	0.31	-0.2528804	0.05537673	7.16E-06
G	GA	0.27	-0.2701286	0.05739601	3.83E-06
C	CAA	0.3	-0.2825729	0.05574163	7.07E-07
A	AAGAATAC	0.33	-0.2444402	0.05442652	9.98E-06
T	C	0.14	-0.3521604	0.07541197	4.52E-06
A	G	0.01	1.149805	0.2346921	1.58E-06
C	T	0.01	-1.210865	0.2563608	3.55E-06
C	A	0.5	-0.2453012	0.04857632	7.76E-07
G	A	0.04	0.5971698	0.1309651	7.38E-06
C	A	0.01	1.352197	0.2512803	1.54E-07
T	C	0.01	-1.050817	0.2311704	7.86E-06
A	C	0.01	-1.050817	0.2311704	7.86E-06
A	G	0.12	0.3547042	0.07783752	7.47E-06
T	C	0.15	0.3544613	0.07518992	3.70E-06
C	T	0.15	0.34329	0.07570069	8.24E-06
C	T	0.15	0.34329	0.07570069	8.24E-06
C	T	0.07	0.5154798	0.1024971	8.56E-07
G	A	0.33	0.2677962	0.0571416	4.19E-06
T	C	0.33	0.2717352	0.05762179	3.67E-06
T	C	0.33	0.2781834	0.05722773	1.89E-06
G	A	0.33	0.2730228	0.05741561	3.07E-06
G	A	0.33	0.2717352	0.05762179	3.67E-06
T	C	0.33	0.280512	0.05744639	1.70E-06
A	G	0.33	0.2725554	0.0574445	3.22E-06
T	A	0.01	-1.213954	0.2495938	1.86E-06
T	TTG	0.02	-1.027798	0.2077673	1.26E-06
G	C	0.02	-0.9466039	0.2038463	5.08E-06
A	T	0.02	-0.9466039	0.2038463	5.08E-06
G	A	0.02	-0.9466039	0.2038463	5.08E-06
C	T	0.02	-0.9466039	0.2038463	5.08E-06
G	A	0.02	-0.9466039	0.2038463	5.08E-06
C	T	0.02	-0.9466039	0.2038463	5.08E-06
G	A	0.02	-0.9466039	0.2038463	5.08E-06
G	A	0.14	-0.3682809	0.08145674	8.75E-06

T	A	0.02	-1.114095	0.2024713	8.35E-08
G	T	0.02	-1.141583	0.2094416	1.09E-07
T	C	0.26	0.2747971	0.06088666	9.06E-06
T	C	0.26	0.2817088	0.06086256	5.44E-06
G	C	0.26	0.2791714	0.06086648	6.55E-06
A	G	0.26	0.2892193	0.06104252	3.32E-06
G	T	0.26	0.2804278	0.06062998	5.52E-06
T	G	0.05	0.5066078	0.1121539	8.91E-06
C	A	0.05	0.5066078	0.1121539	8.91E-06
G	A	0.05	-0.5653497	0.1158607	1.73E-06
G	A	0.1	-0.4168092	0.08693988	2.57E-06
A	G	0.26	0.2663207	0.05875523	8.32E-06
C	T	0.01	-1.122155	0.2256018	1.11E-06
G	T	0.49	-0.2487993	0.05459739	7.47E-06
T	C	0.49	-0.247284	0.05479651	9.08E-06
A	C	0.49	-0.2476993	0.05465662	8.35E-06
G	GTCA	0.49	-0.2496666	0.05471827	7.29E-06
G	A	0.46	-0.2415741	0.05358249	9.25E-06
T	C	0.05	-0.5779596	0.1245162	5.13E-06
C	T	0.03	-0.7975229	0.1726839	5.69E-06
G	T	0.28	0.299092	0.0605722	1.32E-06
G	C	0.37	0.2586762	0.05582771	5.32E-06
T	A	0.27	0.304982	0.06126039	1.09E-06
A	G	0.26	0.2950173	0.06116379	2.24E-06
T	C	0.27	0.2986706	0.06131668	1.80E-06
G	A	0.26	0.2986465	0.06173202	2.10E-06
A	C	0.27	0.3085649	0.0613532	8.56E-07
G	T	0.27	0.2901648	0.06167688	3.86E-06
C	T	0.27	0.2952782	0.06136033	2.36E-06
CAA	C	0.26	0.3016289	0.06171998	1.67E-06
G	C	0.26	0.3011331	0.06168702	1.71E-06
T	C	0.26	0.2947804	0.06147572	2.56E-06
G	T	0.26	0.296144	0.06132961	2.19E-06
A	G	0.26	0.2996163	0.06129764	1.66E-06
G	A	0.27	0.2952782	0.06136033	2.36E-06
C	T	0.37	0.2614316	0.05515322	3.29E-06
A	C	0.37	0.2639073	0.05577585	3.42E-06
A	G	0.37	0.2639073	0.05577585	3.42E-06
A	G	0.37	0.2639073	0.05577585	3.42E-06
T	C	0.37	0.2582479	0.05590781	5.67E-06
C	T	0.07	0.2873331	0.04727195	4.09E-09
G	A	0.08	0.3550794	0.05621724	1.20E-09
C	A	0.01	0.6517573	0.1052662	2.41E-09
G	C	0.01	0.6517573	0.1052662	2.41E-09
G	T	0.01	0.6517573	0.1052662	2.41E-09
T	G	0.01	0.6517573	0.1052662	2.41E-09
C	A	0.01	0.6517573	0.1052662	2.41E-09
T	A	0.02	-0.8867971	0.1473527	5.67E-09
A	T	0.02	0.8645845	0.1353475	7.41E-10
G	A	0.02	0.8034632	0.1333879	5.51E-09

T	C	0.02	0.8034632	0.1333879	5.51E-09
T	C	0.14	-0.33943	0.05685783	8.34E-09
T	A	0.4	-0.1793641	0.03009308	7.65E-09
T	A	0.4	-0.1812069	0.02943387	2.63E-09
T	A	0.02	-0.6171964	0.1031048	6.71E-09
T	A	0.02	-0.7625031	0.1210753	1.21E-09
G	T	0.02	-0.7865219	0.1248778	1.21E-09
C	A	0.02	-0.7512511	0.1147835	3.29E-10
T	A	0.02	-0.509879	0.08554218	7.71E-09
G	T	0.02	-0.535188	0.0885496	4.92E-09
TAG	T	0.03	-0.502259	0.0802674	1.85E-09
A	G	0.02	-0.9102224	0.1530608	8.30E-09
G	C	0.48	0.2528209	0.0556352	7.92E-06
A	G	0.48	0.2521289	0.05597297	9.44E-06
T	C	0.48	0.2621412	0.05602146	4.34E-06
T	G	0.48	0.2523387	0.05572452	8.50E-06
G	A	0.48	0.2507209	0.05580012	9.91E-06
T	TAC	0.38	0.322932	0.0598669	1.45E-07
C	T	0.15	-0.355894	0.07560146	3.82E-06
AGAAGGAAGGAAG	A	0.21	0.3072349	0.06361688	2.19E-06
T	G	0.03	-0.7392203	0.1626002	7.86E-06
G	A	0.02	-1.020048	0.2200892	5.30E-06
A	AAAGG	0.03	-0.8117072	0.1650181	1.45E-06
C	T	0.02	-0.8548527	0.1831105	4.56E-06
G	A	0.36	-0.244186	0.0528881	5.74E-06
G	A	0.27	0.2808856	0.06004177	4.36E-06
G	A	0.34	0.2556342	0.05562223	6.31E-06
G	A	0.24	0.2889715	0.06404141	9.12E-06
T	TCA	0.02	-0.9278897	0.1913174	1.99E-06
G	T	0.05	0.5561647	0.1203924	5.67E-06
A	C	0.04	0.6312026	0.1343211	3.97E-06
C	T	0.02	-0.961526	0.2004175	2.53E-06
T	A	0.26	0.2835112	0.06070108	4.51E-06
AC	A	0.01	-1.122045	0.245095	6.83E-06
A	G	0.01	-1.122045	0.245095	6.83E-06
C	T	0.01	-1.122045	0.245095	6.83E-06
G	A	0.01	-1.122045	0.245095	6.83E-06
C	A	0.01	-1.122045	0.245095	6.83E-06
C	T	0.01	-1.122045	0.245095	6.83E-06
A	G	0.01	-1.122045	0.245095	6.83E-06
T	G	0.01	-1.122045	0.245095	6.83E-06
T	A	0.01	-1.122045	0.245095	6.83E-06
A	G	0.01	-1.122045	0.245095	6.83E-06
C	G	0.01	-1.122045	0.245095	6.83E-06
A	G	0.01	-1.122045	0.245095	6.83E-06
G	A	0.01	-1.122045	0.245095	6.83E-06
A	C	0.01	-1.122045	0.245095	6.83E-06
T	A	0.01	-1.122045	0.245095	6.83E-06
T	TC	0.02	-0.9800494	0.2087969	4.07E-06
G	A	0.07	-0.492601	0.1070076	6.10E-06

G	T	0.03	-0.8128318	0.173519	4.24E-06
C	T	0.03	-0.832994	0.1689164	1.36E-06
T	A	0.02	-0.8342745	0.1750595	2.93E-06
C	T	0.03	-0.7805391	0.1648222	3.36E-06
G	A	0.03	-0.7197165	0.1508213	2.85E-06
C	T	0.03	-0.7197165	0.1508213	2.85E-06
T	C	0.02	-0.8095921	0.175528	5.86E-06
ATG	A	0.02	-1.011416	0.2193024	5.87E-06
A	G	0.21	-0.3165879	0.06428919	1.41E-06
C	G	0.16	-0.3297332	0.07322268	9.49E-06
TG	T	0.13	0.4076082	0.08231116	1.24E-06
T	C	0.11	0.4069549	0.08715873	4.54E-06
C	T	0.24	-0.290787	0.06306043	5.89E-06
G	A	0.24	-0.290787	0.06306043	5.89E-06
G	A	0.24	-0.290787	0.06306043	5.89E-06
G	T	0.24	-0.290787	0.06306043	5.89E-06
A	G	0.24	-0.290787	0.06306043	5.89E-06
G	A	0.23	-0.3009661	0.06329297	3.08E-06
A	G	0.24	-0.290787	0.06306043	5.89E-06
C	T	0.24	-0.290787	0.06306043	5.89E-06
A	G	0.23	-0.2865344	0.06310475	8.05E-06
T	C	0.24	-0.290787	0.06306043	5.89E-06
T	A	0.23	-0.2936212	0.06302993	4.77E-06
GCCATTGCAAAC	G	0.23	-0.2989099	0.06357353	3.92E-06
G	A	0.23	-0.2901944	0.06306902	6.16E-06
A	G	0.23	-0.293699	0.06304673	4.77E-06
ATACAAT	A	0.23	-0.299332	0.0633133	3.49E-06
T	A	0.23	-0.2862952	0.06309472	8.16E-06
G	C	0.23	-0.2901944	0.06306902	6.16E-06
C	CA	0.23	-0.2912229	0.06416269	8.12E-06
T	G	0.23	-0.2907816	0.06322768	6.22E-06
A	C	0.23	-0.2901944	0.06306902	6.16E-06
C	T	0.23	-0.2901944	0.06306902	6.16E-06
G	A	0.23	-0.2901944	0.06306902	6.16E-06
C	A	0.23	-0.2966788	0.06333226	4.24E-06
G	A	0.23	-0.3103915	0.0637897	1.85E-06
T	TA	0.23	-0.3093326	0.06381401	2.02E-06
T	C	0.23	-0.308959	0.06377619	2.04E-06
G	C	0.23	-0.308959	0.06377619	2.04E-06
A	C	0.23	-0.3046558	0.06370547	2.72E-06
A	G	0.23	-0.308959	0.06377619	2.04E-06
A	G	0.23	-0.308959	0.06377619	2.04E-06
T	G	0.23	-0.3091509	0.06376823	2.01E-06
A	G	0.03	0.7156762	0.1535748	4.73E-06
G	T	0.02	-0.8226899	0.1799714	7.03E-06
C	T	0.02	-1.065842	0.2165899	1.43E-06
G	A	0.2	0.3046662	0.06499828	4.19E-06
G	A	0.2	0.3046662	0.06499828	4.19E-06
G	A	0.2	0.3085228	0.06500312	3.21E-06
G	T	0.2	0.318616	0.06506298	1.60E-06

C	G	0.3	-0.3065579	0.06229665	1.43E-06
A	G	0.03	-0.7480656	0.1629183	6.43E-06
A	C	0.06	-0.5469186	0.1070295	5.84E-07
A	G	0.06	-0.5163942	0.112428	6.38E-06
G	A	0.02	-1.057003	0.2199764	2.45E-06
G	A	0.02	-1.057003	0.2199764	2.45E-06
A	G	0.02	-1.057003	0.2199764	2.45E-06
G	A	0.02	-1.057003	0.2199764	2.45E-06
G	C	0.01	-1.113665	0.2443465	7.47E-06
C	T	0.1	-0.4098423	0.08811093	4.92E-06
A	T	0.1	-0.4098423	0.08811093	4.92E-06
A	G	0.09	-0.4392666	0.08930804	1.45E-06
A	G	0.09	-0.4392666	0.08930804	1.45E-06
G	A	0.02	-0.9060632	0.191732	3.52E-06
GC	G	0.02	-0.9683077	0.2015971	2.47E-06
T	A	0.03	-0.66836	0.1422564	3.99E-06
T	C	0.19	-0.31258	0.06936109	9.35E-06
G	A	0.19	-0.3231285	0.07010834	5.95E-06
T	C	0.19	-0.31258	0.06936109	9.35E-06
T	G	0.2	-0.3197853	0.06775858	3.62E-06
G	T	0.01	-1.007635	0.2193919	6.39E-06
C	CA	0.01	-0.9716761	0.1949054	1.06E-06
G	T	0.07	0.4597022	0.09999726	6.27E-06
CGTGTGTGT	C	0.08	-0.5030637	0.1020141	1.36E-06
G	A	0.06	-0.5498805	0.1158822	3.22E-06
T	A	0.01	-1.240918	0.2651268	4.32E-06
A	C	0.06	-0.5386575	0.1147882	4.09E-06
T	G	0.13	0.3698525	0.07876931	4.04E-06
A	C	0.25	0.2823039	0.06124177	5.93E-06
C	G	0.02	-0.6195277	0.1026842	5.58E-09
C	G	0.02	-0.6195277	0.1026842	5.58E-09
A	G	0.02	-0.6195277	0.1026842	5.58E-09
T	G	0.01	-0.7862762	0.122225	6.25E-10
G	T	0.01	-0.7862762	0.122225	6.25E-10
GA	G	0.01	-0.7862762	0.122225	6.25E-10
T	C	0.01	-0.7862762	0.122225	6.25E-10
A	G	0.02	-0.6828211	0.1150161	9.33E-09
AT	A	0.01	-0.4911683	0.08233768	7.70E-09
C	T	0.11	0.2002757	0.03268217	3.90E-09
G	A	0.11	0.1892271	0.03143975	6.95E-09
T	C	0.04	-0.2961163	0.04868934	3.99E-09
G	T	0.04	-0.2961163	0.04868934	3.99E-09
G	C	0.04	-0.2979264	0.04951129	5.66E-09
C	T	0.04	-0.2979264	0.04951129	5.66E-09
T	C	0.04	-0.2979264	0.04951129	5.66E-09
C	T	0.04	-0.2979264	0.04951129	5.66E-09
G	T	0.04	-0.2979264	0.04951129	5.66E-09
C	T	0.04	-0.2979264	0.04951129	5.66E-09
C	T	0.04	-0.2975339	0.04977659	7.02E-09
A	T	0.04	-0.2979264	0.04951129	5.66E-09

CT	C	0.04	-0.305526	0.04989531	3.18E-09
C	A	0.04	-0.2979264	0.04951129	5.66E-09
G	T	0.04	-0.2979264	0.04951129	5.66E-09
G	C	0.04	-0.2979264	0.04951129	5.66E-09
G	A	0.04	-0.2979264	0.04951129	5.66E-09
G	A	0.04	-0.2979264	0.04951129	5.66E-09
G	A	0.04	-0.3048099	0.05014125	4.05E-09
CTTTTA	C	0.04	-0.305526	0.04989531	3.18E-09
G	A	0.05	-0.2654198	0.04200504	1.08E-09
C	CTTTAT	0.02	-0.4479538	0.07539727	8.52E-09
A	G	0.05	-0.2597919	0.04223788	2.74E-09
CACAG	C	0.05	-0.2703421	0.04222503	6.77E-10
G	C	0.02	-0.3004176	0.04647583	4.81E-10
A	G	0.02	-0.2791732	0.04584942	3.85E-09
G	C	0.02	-0.2761246	0.04587267	5.61E-09
T	TG	0.02	-0.2869035	0.04744311	4.83E-09
C	T	0.02	-0.3120007	0.05047564	2.33E-09
G	T	0.16	0.2029306	0.03412661	8.74E-09
T	TGTGTGTGTGTGA	0.03	-0.3765087	0.06017179	1.53E-09
A	G	0.16	-0.1780121	0.02959789	5.78E-09
G	A	0.01	-0.5521579	0.09160367	5.86E-09
T	A	0.01	0.7576934	0.1263591	6.35E-09
G	A	0.02	0.7107967	0.1200556	9.53E-09
CG	C	0.02	0.7107967	0.1200556	9.53E-09
T	C	0.02	0.7107967	0.1200556	9.53E-09
G	A	0.02	0.7107967	0.1200556	9.53E-09
G	A	0.02	0.7107967	0.1200556	9.53E-09
T	G	0.01	-0.6494705	0.1030083	1.26E-09
G	T	0.01	-0.6494705	0.1030083	1.26E-09
GA	G	0.01	-0.6494705	0.1030083	1.26E-09
T	C	0.01	-0.6494705	0.1030083	1.26E-09
A	T	0.02	0.4868544	0.07885227	2.42E-09
G	A	0.02	0.4618462	0.07767273	8.35E-09
T	C	0.02	0.4618462	0.07767273	8.35E-09
T	C	0.03	-0.2796624	0.04574088	3.33E-09
A	AT	0.02	0.9514537	0.1588991	8.11E-09
A	ATATC	0.03	0.3068942	0.05077379	4.90E-09
C	A	0.01	-0.7800921	0.1231052	1.16E-09
A	C	0.01	-0.7800921	0.1231052	1.16E-09
G	A	0.01	-0.7800921	0.1231052	1.16E-09
C	A	0.02	-0.461243	0.07661688	5.92E-09
G	A	0.21	0.1264295	0.02123117	9.20E-09
G	A	0.02	-0.8689578	0.146048	9.80E-09
A	C	0.44	-0.1224877	0.02568932	2.89E-06
C	A	0.43	-0.1237835	0.02583896	2.61E-06
T	C	0.43	-0.1185865	0.02608813	7.86E-06
G	A	0.44	-0.1202961	0.02549117	3.62E-06
G	GACAC	0.04	-0.3489297	0.06659927	3.10E-07
T	A	0.15	-0.1576506	0.03271301	2.29E-06
A	C	0.23	0.1357251	0.02980021	7.56E-06

G	A	0.25	0.1351783	0.02954367	6.88E-06
TGATAGATA	T	0.23	-0.1400343	0.0301258	4.98E-06
G	A	0.13	0.1638946	0.0363426	9.20E-06
G	A	0.16	-0.1537546	0.03382354	7.85E-06
CGTGTGTGT	C	0.04	-0.3201965	0.06978979	6.51E-06
C	A	0.04	-0.3173297	0.06696182	3.30E-06
T	C	0.05	-0.288508	0.05495349	2.94E-07
C	A	0.05	-0.2790386	0.05564683	9.18E-07
G	A	0.03	-0.337305	0.07445596	8.41E-06
A	AACAC	0.12	-0.1936737	0.04226089	6.67E-06
C	T	0.01	-0.5313459	0.1129652	3.88E-06
A	C	0.3	-0.1222211	0.02710868	9.25E-06
G	A	0.01	-0.4933706	0.107541	6.52E-06
TG	T	0.04	-0.3210003	0.06561297	1.63E-06
G	A	0.35	-0.122914	0.02695901	7.40E-06
A	G	0.37	-0.1198955	0.02659543	9.27E-06
A	C	0.21	-0.1470619	0.03202514	6.40E-06
CTAGATAGATGA	C	0.3	0.1313874	0.02763658	3.08E-06
T	A	0.29	-0.1341599	0.0292623	6.61E-06
G	A	0.29	-0.1341599	0.0292623	6.61E-06
G	A	0.29	-0.1341599	0.0292623	6.61E-06
T	G	0.29	-0.1370867	0.02929869	4.34E-06
T	A	0.29	-0.1408282	0.0291686	2.20E-06
G	A	0.29	-0.1370867	0.02929869	4.34E-06
C	T	0.28	-0.1405852	0.02936413	2.65E-06
G	A	0.28	-0.1405852	0.02936413	2.65E-06
C	T	0.28	-0.1405852	0.02936413	2.65E-06
G	A	0.28	-0.1405852	0.02936413	2.65E-06
A	G	0.29	-0.1405348	0.0292622	2.47E-06
T	C	0.28	-0.1418945	0.0292505	1.98E-06
C	G	0.29	-0.137042	0.02909211	3.76E-06
A	G	0.29	-0.1382829	0.02917738	3.30E-06
A	C	0.29	-0.1335132	0.0289236	5.75E-06
T	C	0.29	-0.1391332	0.02928961	3.14E-06
A	C	0.29	-0.1331659	0.02874117	5.32E-06
G	A	0.29	-0.144295	0.0291444	1.24E-06
A	G	0.29	-0.1350453	0.02972393	7.94E-06
A	C	0.29	-0.1350453	0.02972393	7.94E-06
C	T	0.29	-0.1360471	0.02965044	6.50E-06
T	G	0.29	-0.1360332	0.02945209	5.68E-06
T	C	0.29	-0.1360471	0.02965044	6.50E-06
G	T	0.29	-0.1360471	0.02965044	6.50E-06
T	C	0.29	-0.1345976	0.02966913	8.18E-06
G	A	0.29	-0.1336316	0.0296579	9.36E-06
C	CA	0.04	-0.3133027	0.06535965	2.58E-06
AGACG	A	0.01	-0.5752939	0.1266622	7.99E-06
G	T	0.35	0.1144866	0.02479067	5.70E-06
G	A	0.08	-0.2132971	0.04734913	9.40E-06
G	A	0.08	-0.2132971	0.04734913	9.40E-06
C	T	0.07	-0.2322933	0.05010283	5.25E-06

G	A	0.08	-0.2132971	0.04734913	9.40E-06
G	A	0.08	-0.2132971	0.04734913	9.40E-06
G	A	0.08	-0.2184401	0.04748277	6.16E-06
C	T	0.08	-0.2186133	0.04776768	6.85E-06
A	G	0.08	-0.2132971	0.04734913	9.40E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
A	G	0.14	-0.158125	0.03462064	7.14E-06
A	G	0.14	-0.1628575	0.03488706	4.55E-06
G	A	0.14	-0.1696234	0.03522051	2.32E-06
A	G	0.14	-0.1622085	0.03537194	6.58E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
C	T	0.14	-0.1558129	0.03460187	9.48E-06
C	A	0.14	-0.1558129	0.03460187	9.48E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
C	G	0.14	-0.1558129	0.03460187	9.48E-06
C	T	0.14	-0.1558129	0.03460187	9.48E-06
T	C	0.14	-0.1558129	0.03460187	9.48E-06
C	T	0.14	-0.1558129	0.03460187	9.48E-06
T	A	0.14	-0.1558129	0.03460187	9.48E-06
C	T	0.14	-0.1558129	0.03460187	9.48E-06
A	G	0.14	-0.1558129	0.03460187	9.48E-06
A	G	0.14	-0.1558129	0.03460187	9.48E-06
G	T	0.14	-0.1560518	0.03454173	8.88E-06
A	G	0.14	-0.1560518	0.03454173	8.88E-06
T	G	0.05	-0.2838117	0.06104672	4.96E-06
A	AATGG	0.45	0.1121336	0.02493768	9.75E-06
T	C	0.01	-0.5759153	0.1149071	9.29E-07
C	CT	0.05	-0.2682039	0.05810878	5.76E-06
T	C	0.2	-0.1471228	0.03198164	6.17E-06
C	G	0.2	-0.1471228	0.03198164	6.17E-06
T	C	0.2	-0.1469758	0.03197882	6.29E-06
G	GCACA	0.2	-0.1703832	0.03276164	3.75E-07
T	A	0.2	-0.1470538	0.03197057	6.19E-06
C	G	0.15	-0.1977801	0.03783523	3.29E-07
G	C	0.01	-0.5254225	0.115287	7.46E-06
G	GGATA	0.14	-0.176439	0.03707157	3.01E-06
G	A	0.4	0.1295685	0.02682381	2.17E-06
TTAA	T	0.41	0.1114876	0.02480823	9.86E-06
AGT	A	0.15	-0.1703831	0.0369301	5.81E-06
C	A	0.04	-0.3349839	0.06914382	2.03E-06
A	AT	0.05	-0.2728006	0.05756046	3.30E-06
A	G	0.03	-0.5272742	0.08851777	8.39E-09
C	T	0.01	-1.055188	0.1734896	4.40E-09
C	CA	0.3	-0.1325602	0.01966298	1.07E-10
C	T	0.14	-0.1666377	0.02711592	3.02E-09
T	C	0.14	-0.1754842	0.02762922	9.74E-10
G	A	0.14	-0.1730006	0.0273749	1.16E-09
G	C	0.14	-0.1718143	0.0271561	1.12E-09

A	G	0.28	-0.1441165	0.0201586	9.85E-12
A	G	0.28	-0.1463564	0.0201442	4.91E-12
T	C	0.28	-0.1379832	0.01991647	3.63E-11
T	C	0.28	-0.1297658	0.0197934	3.09E-10
G	A	0.28	-0.1351233	0.01985153	7.37E-11
C	G	0.28	-0.1321779	0.01975119	1.43E-10
T	C	0.29	-0.1328699	0.01971873	1.09E-10
G	T	0.29	-0.1328699	0.01971873	1.09E-10
A	G	0.28	-0.1350582	0.01987883	7.93E-11
A	G	0.29	-0.1332855	0.01974874	1.03E-10
C	T	0.27	-0.1355464	0.02021951	1.33E-10
C	T	0.28	-0.1279657	0.01992828	6.60E-10
T	C	0.28	-0.134194	0.02011918	1.62E-10
G	T	0.27	-0.136833	0.02019981	8.90E-11
G	A	0.27	-0.1338272	0.02019532	2.07E-10
T	C	0.14	-0.165894	0.02729466	4.35E-09
G	A	0.14	-0.1684758	0.02756655	3.63E-09
G	A	0.14	-0.1689299	0.02758543	3.39E-09
G	C	0.14	-0.1684758	0.02756655	3.63E-09
A	G	0.14	-0.1684758	0.02756655	3.63E-09
A	C	0.14	-0.1684758	0.02756655	3.63E-09
G	C	0.14	-0.1684758	0.02756655	3.63E-09
G	A	0.14	-0.1684758	0.02756655	3.63E-09
A	G	0.14	-0.1690127	0.02753335	3.13E-09
A	T	0.14	-0.1690127	0.02753335	3.13E-09
T	C	0.23	-0.1667088	0.02054136	2.53E-14
T	C	0.23	-0.1658742	0.02035314	2.04E-14
A	G	0.24	-0.1513971	0.01979679	4.78E-13
T	C	0.25	-0.1472373	0.0193365	5.86E-13
C	T	0.23	-0.1667185	0.02054713	2.56E-14
A	G	0.23	-0.1567908	0.02046309	4.37E-13
A	G	0.14	-0.1690127	0.02753335	3.13E-09
C	G	0.23	-0.1620535	0.02045497	8.61E-14
G	A	0.14	-0.1624228	0.02686592	5.17E-09
T	C	0.14	-0.166765	0.02681265	2.01E-09
T	A	0.14	-0.162037	0.02659372	4.01E-09
G	C	0.14	-0.166765	0.02681265	2.01E-09
T	G	0.14	-0.1594097	0.02656805	6.61E-09
A	C	0.14	-0.166765	0.02681265	2.01E-09
A	T	0.13	-0.1726913	0.02773521	1.94E-09
G	A	0.13	-0.1773972	0.02770851	7.34E-10
A	AAAC	0.13	-0.1875928	0.02942686	8.55E-10
A	T	0.14	-0.1740202	0.02702494	5.97E-10
T	C	0.14	-0.1615889	0.02639361	3.42E-09
C	G	0.13	-0.1818565	0.02711824	1.32E-10
T	G	0.27	-0.1233938	0.02012202	3.24E-09
G	C	0.27	-0.1245779	0.02019414	2.66E-09
T	C	0.01	-0.8086715	0.1333099	5.46E-09
G	GGA	0.01	-1.000649	0.1671303	7.47E-09
T	TTGTGTGTGTGTG	0.01	-0.8520891	0.1396481	3.88E-09

C	T	0.01	1.047419	0.2253252	5.10E-06
TAA	T	0.03	0.7174386	0.1404063	6.05E-07
C	T	0.01	1.10141	0.2423523	8.08E-06
GTGTGTGTGTGTGTG	A	0.06	0.4621763	0.1014976	7.77E-06
AT	A	0.01	1.056346	0.2333191	8.71E-06
C	A	0.09	-0.394629	0.08759893	9.61E-06
C	A	0.08	-0.410813	0.09009357	7.55E-06
G	A	0.08	-0.4457635	0.09257125	2.40E-06
A	G	0.26	0.2578568	0.05462978	3.70E-06
T	G	0.01	1.091313	0.2407561	8.51E-06
T	C	0.01	1.016771	0.2259313	9.80E-06
TC	T	0.01	1.123361	0.2394778	4.22E-06
TTC	T	0.01	1.147674	0.2360782	1.94E-06
G	T	0.03	0.6448429	0.1401113	6.26E-06
G	T	0.02	0.9303584	0.1972252	3.75E-06
G	A	0.01	1.029549	0.2275895	8.85E-06
G	A	0.01	1.029549	0.2275895	8.85E-06
C	T	0.01	1.029549	0.2275895	8.85E-06
C	T	0.02	0.9741833	0.1883934	4.50E-07
C	G	0.01	1.029549	0.2275895	8.85E-06
C	T	0.01	1.029549	0.2275895	8.85E-06
A	G	0.01	1.003358	0.222807	9.68E-06
A	T	0.03	0.6618779	0.1467452	9.38E-06
G	GA	0.05	0.4572746	0.09962244	6.61E-06
T	A	0.13	0.3461785	0.07372118	4.13E-06
A	G	0.1	0.3844015	0.08177949	4.04E-06
T	C	0.1	0.3844015	0.08177949	4.04E-06
A	G	0.1	0.4244229	0.08196134	4.35E-07
C	T	0.1	0.4252604	0.0830413	5.73E-07
C	T	0.1	0.4244229	0.08196134	4.35E-07
A	C	0.1	0.4244229	0.08196134	4.35E-07
C	T	0.1	0.4382363	0.0838829	3.48E-07
A	AACACACACAC	0.01	1.059887	0.2270004	4.65E-06
C	T	0.02	0.9152699	0.1988824	6.27E-06
C	T	0.01	1.122321	0.2493151	9.75E-06
A	G	0.35	0.2412516	0.05162882	4.58E-06
T	C	0.35	0.2395913	0.05186667	5.81E-06
T	C	0.35	0.2352504	0.05176914	8.09E-06
A	G	0.35	0.2423513	0.05179687	4.45E-06
T	C	0.36	0.2315474	0.05061237	7.07E-06
C	A	0.28	0.2734066	0.0565054	2.16E-06
G	A	0.02	0.8257148	0.1725244	2.74E-06
C	G	0.07	0.4885445	0.09946882	1.54E-06
T	C	0.06	0.4898497	0.09989272	1.60E-06
T	A	0.06	0.4617518	0.09907829	4.84E-06
T	TAC	0.01	1.013687	0.2246406	9.30E-06
G	A	0.01	1.118867	0.2432326	6.33E-06
G	A	0.02	0.7557775	0.1625965	5.11E-06
G	A	0.02	0.7557775	0.1625965	5.11E-06
G	A	0.04	0.745854	0.1300186	2.65E-08

G	A	0.04	0.683581	0.1313689	3.85E-07
A	G	0.03	0.6169403	0.1364107	8.89E-06
C	T	0.03	0.6181135	0.1349905	6.95E-06
C	CA	0.23	0.2761537	0.05783021	2.88E-06
A	G	0.02	0.7942958	0.1745796	7.90E-06
G	A	0.02	0.7942958	0.1745796	7.90E-06
T	C	0.2	0.2818718	0.06155038	6.93E-06
G	T	0.02	0.9395839	0.1914931	1.57E-06
C	G	0.02	0.9989327	0.1948417	5.57E-07
AACAG	A	0.02	0.9989327	0.1948417	5.57E-07
T	C	0.02	0.9989327	0.1948417	5.57E-07
C	T	0.02	0.9989327	0.1948417	5.57E-07
G	A	0.02	0.9989327	0.1948417	5.57E-07
G	A	0.02	0.9989327	0.1948417	5.57E-07
T	A	0.02	0.9200977	0.1910485	2.39E-06
A	AGAGT	0.02	0.8088422	0.1713945	3.71E-06
C	T	0.02	0.8088422	0.1713945	3.71E-06
GTCTGTCTA	G	0.02	0.7906597	0.1714408	6.00E-06
G	GA	0.02	0.8704109	0.1764895	1.40E-06
A	G	0.02	0.8704109	0.1764895	1.40E-06
C	T	0.02	0.8704109	0.1764895	1.40E-06
TTCTCTCTCTCTC	T	0.02	1.080358	0.2015323	1.78E-07
C	G	0.02	0.8704109	0.1764895	1.40E-06
G	A	0.02	0.8704109	0.1764895	1.40E-06
T	G	0.02	0.8704109	0.1764895	1.40E-06
T	C	0.02	0.8704109	0.1764895	1.40E-06
G	C	0.02	0.8704109	0.1764895	1.40E-06
G	A	0.02	0.8704109	0.1764895	1.40E-06
A	G	0.02	0.8704109	0.1764895	1.40E-06
T	C	0.02	0.8802912	0.1763765	1.06E-06
A	G	0.02	0.9558569	0.1992063	2.59E-06
A	G	0.02	0.9558569	0.1992063	2.59E-06
A	G	0.02	0.9558569	0.1992063	2.59E-06
TTAAC	T	0.02	0.9558569	0.1992063	2.59E-06
C	CT	0.02	0.9558569	0.1992063	2.59E-06
T	C	0.02	0.9558569	0.1992063	2.59E-06
TAGG	T	0.02	0.9558569	0.1992063	2.59E-06
A	G	0.02	0.9558569	0.1992063	2.59E-06
A	G	0.02	0.9558569	0.1992063	2.59E-06
C	T	0.02	0.9558569	0.1992063	2.59E-06
C	T	0.02	0.9558569	0.1992063	2.59E-06
G	A	0.02	0.7133833	0.1517087	4.01E-06
C	T	0.03	0.6704475	0.1467761	7.29E-06
C	T	0.02	0.8475888	0.1734614	1.73E-06
G	A	0.02	0.8475888	0.1734614	1.73E-06
T	C	0.02	0.8634516	0.1730783	1.07E-06
G	A	0.09	0.3982292	0.08729708	7.49E-06
T	TTGTGTG	0.02	0.968708	0.1977274	1.63E-06
T	A	0.01	1.017014	0.2252309	9.18E-06
C	T	0.02	0.7455043	0.1639691	8.01E-06

T	C	0.02	0.7455043	0.1639691	8.01E-06
G	A	0.03	0.8003172	0.1540308	4.00E-07
ATATAGTGTGTGTGT	A	0.03	0.7398241	0.1545875	2.75E-06
C	T	0.03	0.709271	0.1575128	9.69E-06
G	C	0.03	0.6702726	0.1481548	8.84E-06
TTC	T	0.01	1.044762	0.2323088	9.93E-06
C	T	0.01	1.201422	0.2386159	8.63E-07
G	A	0.01	1.044762	0.2323088	9.93E-06
A	G	0.01	1.044762	0.2323088	9.93E-06
T	A	0.07	0.4584656	0.09792085	4.39E-06
C	A	0.07	0.4436801	0.0976395	8.10E-06
GGGAA	G	0.01	1.283905	0.2487066	4.70E-07
G	A	0.01	1.283905	0.2487066	4.70E-07
A	G	0.01	1.044182	0.2314238	9.32E-06
T	C	0.01	1.044182	0.2314238	9.32E-06
C	T	0.01	1.129615	0.2460555	6.59E-06
T	C	0.13	0.3371462	0.073899	7.48E-06
A	AAAGG	0.02	0.8791153	0.1901679	5.72E-06
GC	G	0.07	0.5148645	0.1000746	5.11E-07
G	A	0.02	0.7464261	0.139896	2.02E-07
G	A	0.01	1.028634	0.2216426	5.28E-06
A	T	0.01	1.097014	0.2356971	4.97E-06
C	T	0.02	0.7890685	0.172222	6.86E-06
G	T	0.02	0.9788878	0.1926924	6.97E-07
G	GT	0.01	1.085092	0.2386481	8.00E-06
ATAGT	A	0.02	0.8315514	0.1811384	6.59E-06
G	A	0.01	1.195879	0.2472642	2.18E-06
G	A	0.01	1.411678	0.2398563	1.22E-08
A	G	0.01	1.411678	0.2398563	1.22E-08
C	T	0.02	0.8690281	0.1924235	9.15E-06
C	T	0.02	0.88621	0.1779557	1.12E-06
A	C	0.01	1.263918	0.2112217	7.22E-09
T	TAC	0.01	0.9889135	0.212011	4.75E-06
A	T	0.01	1.134912	0.2429204	4.59E-06
C	T	0.15	0.3322529	0.07211825	6.13E-06
G	A	0.12	0.3920285	0.07274548	1.55E-07
T	C	0.12	0.388016	0.07250858	1.87E-07
C	T	0.24	0.2636731	0.05521529	2.88E-06
C	T	0.12	0.3868807	0.07262119	2.10E-07
C	T	0.12	0.3868807	0.07262119	2.10E-07
C	T	0.12	0.3868807	0.07262119	2.10E-07
TTA	T	0.4	0.2519328	0.05270761	2.82E-06
C	T	0.43	0.2378917	0.05148093	5.77E-06
C	T	0.43	0.2353473	0.05149079	7.20E-06
A	G	0.43	0.2378917	0.05148093	5.77E-06
C	T	0.43	0.241583	0.05135285	3.97E-06
A	G	0.43	0.2362442	0.05154956	6.83E-06
CA	C	0.43	0.2329275	0.051571	9.13E-06
T	A	0.43	0.2378917	0.05148093	5.77E-06
T	C	0.43	0.2362749	0.05144028	6.52E-06

T	C	0.43	0.2327192	0.05157346	9.30E-06
C	T	0.43	0.2378917	0.05148093	5.77E-06
A	G	0.43	0.2362442	0.05154956	6.83E-06
C	G	0.43	0.2378917	0.05148093	5.77E-06
C	G	0.43	0.2362442	0.05154956	6.83E-06
AAT	A	0.38	0.2433218	0.0523092	5.03E-06
T	TA	0.38	0.2445458	0.05213826	4.23E-06
G	T	0.39	0.2357557	0.05175438	7.71E-06
T	G	0.38	0.2374698	0.05267217	9.46E-06
A	T	0.33	0.2567081	0.05330323	2.39E-06
TA	T	0.01	1.117547	0.2251503	1.21E-06
G	A	0.01	1.10971	0.2370822	4.42E-06
AAAC	A	0.01	1.063239	0.2262284	4.05E-06
T	C	0.03	0.6545482	0.1425616	6.58E-06
T	C	0.01	1.046456	0.2255231	5.30E-06
GTGTGTGTGTGTACG	C	0.02	0.9143213	0.1939211	3.79E-06
C	T	0.01	1.062119	0.2273896	4.61E-06
A	G	0.23	0.2693668	0.05935271	8.30E-06
A	C	0.2	0.2885769	0.06078212	3.26E-06
CTT	C	0.01	1.270308	0.2364868	1.69E-07
T	C	0.02	0.9027297	0.1955732	5.90E-06
A	TGGGATGAGTTACAC	0.05	0.5255535	0.1141189	6.18E-06
A	C	0.01	1.208939	0.248851	1.97E-06
C	T	0.02	0.8736507	0.1828141	2.83E-06
T	C	0.02	0.7772227	0.1658349	4.30E-06
G	A	0.02	0.7772227	0.1658349	4.30E-06
G	C	0.02	0.7772227	0.1658349	4.30E-06
T	C	0.02	0.7780286	0.1635411	3.12E-06
T	C	0.02	0.7780286	0.1635411	3.12E-06
G	A	0.02	0.8008099	0.1711227	4.44E-06
ACACACACGCACACG	T	0.02	0.9693473	0.2047211	3.46E-06
G	GT	0.02	0.9142468	0.1991165	6.57E-06
G	A	0.02	0.9337608	0.1991513	4.26E-06
T	C	0.02	1.026381	0.2034361	8.22E-07
A	G	0.02	1.026381	0.2034361	8.22E-07
G	C	0.01	1.023862	0.2087942	1.60E-06
C	T	0.05	0.5365132	0.111339	2.36E-06
AAAAT	A	0.05	0.5365132	0.111339	2.36E-06
C	T	0.05	0.5365132	0.111339	2.36E-06
C	CCACACACACACA	0.19	0.3063288	0.06379282	2.55E-06
G	A	0.01	1.211605	0.2248184	1.55E-07
G	GT	0.01	1.211605	0.2248184	1.55E-07
G	C	0.01	1.211605	0.2248184	1.55E-07
C	G	0.01	1.211605	0.2248184	1.55E-07
C	G	0.01	1.211605	0.2248184	1.55E-07
C	T	0.01	1.036717	0.217496	3.00E-06
C	A	0.46	0.2253361	0.04932163	7.27E-06
T	G	0.01	1.025316	0.2202356	4.94E-06
C	G	0.01	1.025316	0.2202356	4.94E-06
C	T	0.01	1.025316	0.2202356	4.94E-06

C	A	0.01	1.025316	0.2202356	4.94E-06
T	C	0.01	1.025316	0.2202356	4.94E-06
A	C	0.01	1.025316	0.2202356	4.94E-06
G	A	0.01	1.025316	0.2202356	4.94E-06
G	T	0.01	1.025316	0.2202356	4.94E-06
C	G	0.01	1.025316	0.2202356	4.94E-06
T	C	0.01	1.025316	0.2202356	4.94E-06
T	C	0.01	1.025316	0.2202356	4.94E-06
C	T	0.01	1.025316	0.2202356	4.94E-06
T	C	0.01	1.025316	0.2202356	4.94E-06
C	G	0.01	1.025316	0.2202356	4.94E-06
G	C	0.01	1.025316	0.2202356	4.94E-06
G	T	0.01	1.025316	0.2202356	4.94E-06
A	G	0.01	1.146335	0.2190757	3.34E-07
C	T	0.01	1.038513	0.2277037	7.52E-06
T	C	0.01	1.038513	0.2277037	7.52E-06
G	A	0.01	1.058677	0.2234078	3.40E-06
C	CT	0.07	0.4635421	0.101505	7.33E-06
G	A	0.02	1.007981	0.1951563	4.64E-07
G	A	0.17	0.3103538	0.06581259	3.77E-06
C	T	0.17	0.317122	0.06571048	2.28E-06
GC	G	0.17	0.3149181	0.06564186	2.60E-06
G	A	0.17	0.3158039	0.06567214	2.47E-06
C	T	0.17	0.3158039	0.06567214	2.47E-06
G	A	0.18	0.317806	0.0644695	1.42E-06
T	C	0.18	0.3050086	0.06420725	3.23E-06
G	A	0.18	0.3050086	0.06420725	3.23E-06
T	TAAAAGA	0.23	0.2505642	0.05565643	9.73E-06
G	A	0.02	0.8809046	0.1932445	7.60E-06
CCTT	C	0.07	0.4426874	0.09668578	6.96E-06
C	G	0.02	0.9277825	0.1745188	2.22E-07
C	G	0.02	0.9277825	0.1745188	2.22E-07
A	G	0.02	0.9277825	0.1745188	2.22E-07
C	T	0.02	0.8363459	0.1667219	9.42E-07
C	T	0.02	0.8918872	0.1712494	3.76E-07
C	T	0.02	0.8918872	0.1712494	3.76E-07
C	T	0.02	0.7517387	0.1642414	7.00E-06
C	G	0.01	1.181333	0.2401907	1.49E-06
C	CGTGTGTGTGTGT	0.01	1.069616	0.2180203	1.58E-06
T	C	0.02	0.8717457	0.1740508	9.77E-07
G	A	0.02	0.9291805	0.1686441	8.46E-08
C	G	0.02	0.9291805	0.1686441	8.46E-08
C	T	0.01	1.089288	0.2341331	5.01E-06
C	A	0.02	0.93661	0.2005394	4.62E-06
T	C	0.01	1.33883	0.2168095	2.57E-09
T	G	0.01	1.451126	0.2090619	3.38E-11
G	T	0.01	1.451126	0.2090619	3.38E-11
GA	G	0.01	1.451126	0.2090619	3.38E-11
T	C	0.02	1.094507	0.1889867	1.99E-08
A	G	0.02	1.094507	0.1889867	1.99E-08

T	C	0.01	1.451126	0.2090619	3.38E-11
G	A	0.03	0.6977683	0.1495236	4.70E-06
G	A	0.03	0.6977683	0.1495236	4.70E-06
A	G	0.02	1.218749	0.1981161	2.92E-09
G	T	0.02	1.116315	0.1895737	1.20E-08
C	T	0.02	1.124833	0.194141	1.97E-08
A	G	0.02	1.295508	0.1964657	2.50E-10
A	C	0.02	1.116315	0.1895737	1.20E-08
G	A	0.02	1.118433	0.1938244	2.22E-08
C	T	0.02	1.118433	0.1938244	2.22E-08
GA	G	0.02	1.127626	0.1987123	3.65E-08
T	G	0.05	0.5374462	0.118171	7.96E-06
G	A	0.03	0.6309407	0.1370462	6.22E-06
G	A	0.22	0.2728899	0.05969943	7.19E-06
C	G	0.01	1.147067	0.2466783	5.07E-06
C	T	0.01	1.147067	0.2466783	5.07E-06
G	A	0.01	1.147067	0.2466783	5.07E-06
C	T	0.04	0.5612071	0.1241906	9.04E-06
G	C	0.16	0.30436	0.06591194	5.85E-06
T	A	0.01	1.26818	0.2502253	7.37E-07
C	T	0.02	0.7387045	0.1600732	5.93E-06
T	G	0.02	0.7387045	0.1600732	5.93E-06
G	A	0.02	0.7528965	0.166975	9.44E-06
G	A	0.16	-0.3034301	0.0666385	7.77E-06
A	T	0.16	-0.2970308	0.06605102	9.95E-06
G	A	0.16	-0.3008641	0.06600514	7.61E-06
T	G	0.17	-0.3044901	0.06535033	4.86E-06
C	T	0.17	-0.3096761	0.06574898	3.87E-06
A	C	0.02	0.6426889	0.1035744	2.18E-09
G	A	0.02	0.5908561	0.09806672	5.77E-09
T	C	0.02	0.5943735	0.09801641	4.68E-09
G	A	0.12	0.2988348	0.05004048	7.66E-09
T	C	0.01	0.9452289	0.1503279	1.38E-09
T	G	0.01	0.9861134	0.1453504	8.34E-11
G	T	0.01	0.9861134	0.1453504	8.34E-11
GA	G	0.01	0.9861134	0.1453504	8.34E-11
T	C	0.01	0.9861134	0.1453504	8.34E-11
A	G	0.02	0.8700911	0.1372387	1.03E-09
G	T	0.02	0.7856969	0.131482	7.50E-09
C	T	0.02	0.8004332	0.1345434	8.64E-09
A	G	0.02	0.8996389	0.1363862	2.45E-10
A	C	0.02	0.7856969	0.131482	7.50E-09
A	C	0.01	0.8183092	0.1326558	2.75E-09
T	G	0.01	0.8475835	0.1399972	5.09E-09
G	T	0.01	0.8475835	0.1399972	5.09E-09
GA	G	0.01	0.8475835	0.1399972	5.09E-09
T	C	0.01	0.8475835	0.1399972	5.09E-09
A	G	0.02	0.7926081	0.1303311	4.40E-09
G	A	0.01	0.7398861	0.1189977	2.03E-09
G	A	0.04	0.4184247	0.0698758	7.08E-09

T	G	0.01	0.6875436	0.1128814	4.08E-09
G	T	0.01	0.6875436	0.1128814	4.08E-09
GA	G	0.01	0.6875436	0.1128814	4.08E-09
T	C	0.01	0.6875436	0.1128814	4.08E-09
T	A	0.02	0.6920346	0.1149503	7.07E-09
C	G	0.01	0.7922764	0.1327653	9.32E-09
AACAG	A	0.01	0.7922764	0.1327653	9.32E-09
T	C	0.01	0.7922764	0.1327653	9.32E-09
C	T	0.01	0.7922764	0.1327653	9.32E-09
G	A	0.01	0.7922764	0.1327653	9.32E-09
G	A	0.01	0.7922764	0.1327653	9.32E-09
A	AGAGT	0.02	0.7154971	0.1172012	4.53E-09
C	T	0.02	0.7154971	0.1172012	4.53E-09
GTCTGTCTA	G	0.02	0.6993637	0.1173587	9.73E-09
G	GA	0.02	0.764911	0.1218359	1.79E-09
A	G	0.02	0.764911	0.1218359	1.79E-09
C	T	0.02	0.764911	0.1218359	1.79E-09
TTCTCTCTCTCTC	T	0.01	0.8635161	0.1347888	8.96E-10
C	G	0.02	0.764911	0.1218359	1.79E-09
G	A	0.02	0.764911	0.1218359	1.79E-09
T	G	0.02	0.764911	0.1218359	1.79E-09
T	C	0.02	0.764911	0.1218359	1.79E-09
G	C	0.02	0.764911	0.1218359	1.79E-09
G	A	0.02	0.764911	0.1218359	1.79E-09
A	G	0.02	0.764911	0.1218359	1.79E-09
T	C	0.02	0.7560845	0.1215568	2.45E-09
G	T	0.02	0.5710901	0.09483777	5.86E-09
G	A	0.13	0.291541	0.04707735	2.86E-09
T	C	0.13	0.2930457	0.04686841	2.08E-09
C	T	0.13	0.2921046	0.04694833	2.45E-09
C	T	0.13	0.2921046	0.04694833	2.45E-09
C	T	0.13	0.2921046	0.04694833	2.45E-09
T	G	0.01	0.7601424	0.1185282	6.91E-10
G	T	0.01	0.7601424	0.1185282	6.91E-10
GA	G	0.01	0.7601424	0.1185282	6.91E-10
T	C	0.01	0.7601424	0.1185282	6.91E-10
A	G	0.02	0.6920972	0.1112524	2.00E-09
T	C	0.02	0.699967	0.1177499	8.86E-09
C	CT	0.19	0.3796016	0.06105886	2.15E-09
T	G	0.01	0.7403938	0.1223126	5.11E-09
G	T	0.01	0.7403938	0.1223126	5.11E-09
GA	G	0.01	0.7403938	0.1223126	5.11E-09
T	C	0.01	0.7403938	0.1223126	5.11E-09
C	T	0.13	0.270564	0.04547759	9.21E-09
G	C	0.13	0.270564	0.04547759	9.21E-09
T	G	0.01	0.6985604	0.1174556	8.73E-09
G	T	0.01	0.6985604	0.1174556	8.73E-09
GA	G	0.01	0.6985604	0.1174556	8.73E-09
T	C	0.01	0.6985604	0.1174556	8.73E-09
T	G	0.01	0.7358815	0.1170247	1.38E-09

G	T	0.01	0.7358815	0.1170247	1.38E-09
GA	G	0.01	0.7358815	0.1170247	1.38E-09
T	C	0.01	0.7358815	0.1170247	1.38E-09
A	G	0.02	0.6564195	0.1099278	7.70E-09
A	C	0.01	0.7014661	0.1137956	2.74E-09
T	C	0.01	0.7189664	0.1169459	2.99E-09
T	G	0.01	0.7752213	0.1128365	5.13E-11
G	T	0.01	0.7752213	0.1128365	5.13E-11
GA	G	0.01	0.7752213	0.1128365	5.13E-11
T	C	0.01	0.7752213	0.1128365	5.13E-11
A	G	0.02	0.6678844	0.1067183	1.64E-09
A	G	0.02	0.710291	0.1058537	1.30E-10
C	G	0.02	0.655358	0.1056576	2.21E-09
C	G	0.02	0.655358	0.1056576	2.21E-09
A	G	0.02	0.655358	0.1056576	2.21E-09
T	G	0.01	0.7563643	0.1269577	8.27E-09
G	T	0.01	0.7563643	0.1269577	8.27E-09
GA	G	0.01	0.7563643	0.1269577	8.27E-09
T	C	0.01	0.7563643	0.1269577	8.27E-09
T	C	0.23	-0.2364969	0.03804131	2.06E-09
T	C	0.23	-0.2361685	0.03769353	1.58E-09
T	C	0.25	-0.2191484	0.03557505	2.81E-09
C	T	0.23	-0.2408093	0.03801486	1.08E-09
A	G	0.23	-0.2257746	0.03778352	7.58E-09
C	G	0.23	-0.2289893	0.03753588	3.88E-09
T	G	0.01	0.8084476	0.1351603	7.50E-09
G	T	0.01	0.8084476	0.1351603	7.50E-09
GA	G	0.01	0.8084476	0.1351603	7.50E-09
T	C	0.01	0.8084476	0.1351603	7.50E-09
T	G	0.01	0.7367827	0.1191126	2.43E-09
G	T	0.01	0.7367827	0.1191126	2.43E-09
GA	G	0.01	0.7367827	0.1191126	2.43E-09
T	C	0.01	0.7367827	0.1191126	2.43E-09
A	G	0.02	0.6631318	0.1118186	9.59E-09
C	G	0.02	1.361004	0.2201715	3.19E-09
AACAG	A	0.02	1.361004	0.2201715	3.19E-09
T	C	0.02	1.361004	0.2201715	3.19E-09
C	T	0.02	1.361004	0.2201715	3.19E-09
G	A	0.02	1.361004	0.2201715	3.19E-09
G	A	0.02	1.361004	0.2201715	3.19E-09
T	A	0.02	1.319465	0.2138134	3.37E-09
G	GA	0.02	1.206246	0.2020579	9.68E-09
A	G	0.02	1.206246	0.2020579	9.68E-09
C	T	0.02	1.206246	0.2020579	9.68E-09
C	G	0.02	1.206246	0.2020579	9.68E-09
G	A	0.02	1.206246	0.2020579	9.68E-09
T	G	0.02	1.206246	0.2020579	9.68E-09
T	C	0.02	1.206246	0.2020579	9.68E-09
G	C	0.02	1.206246	0.2020579	9.68E-09
G	A	0.02	1.206246	0.2020579	9.68E-09

A	G	0.02	1.206246	0.2020579	9.68E-09
T	C	0.02	1.252485	0.1961749	1.08E-09
T	G	0.01	0.7783706	0.1223705	9.36E-10
G	T	0.01	0.7783706	0.1223705	9.36E-10
GA	G	0.01	0.7783706	0.1223705	9.36E-10
T	C	0.01	0.7783706	0.1223705	9.36E-10
C	T	0.02	0.7031908	0.1099908	7.82E-10
G	A	0.02	0.7031908	0.1099908	7.82E-10
T	C	0.02	0.7103313	0.1096796	4.91E-10
T	G	0.02	0.8110119	0.1246338	4.64E-10
G	T	0.02	0.8110119	0.1246338	4.64E-10
GA	G	0.02	0.8110119	0.1246338	4.64E-10
T	C	0.02	0.8110119	0.1246338	4.64E-10
A	G	0.02	0.727522	0.1171788	2.38E-09
C	T	0.02	0.7698776	0.1271611	6.17E-09
A	G	0.02	0.716239	0.1164683	3.74E-09
G	T	0.02	0.9417563	0.1588879	9.82E-09
C	G	0.02	0.9837494	0.1620863	4.60E-09
AACAG	A	0.02	0.9837494	0.1620863	4.60E-09
T	C	0.02	0.9837494	0.1620863	4.60E-09
C	T	0.02	0.9837494	0.1620863	4.60E-09
G	A	0.02	0.9837494	0.1620863	4.60E-09
G	A	0.02	0.9837494	0.1620863	4.60E-09
T	A	0.02	0.9565168	0.158442	5.47E-09
C	T	0.02	0.9398698	0.145013	4.96E-10
G	A	0.02	0.9398698	0.145013	4.96E-10
T	C	0.02	0.9807369	0.1432528	6.23E-11
C	T	0.01	1.159079	0.1940002	7.85E-09
T	G	0.01	0.7192711	0.112226	7.13E-10
G	T	0.01	0.7192711	0.112226	7.13E-10
GA	G	0.01	0.7192711	0.112226	7.13E-10
T	C	0.01	0.7192711	0.112226	7.13E-10
G	A	0.12	0.2683272	0.04525665	9.66E-09
T	C	0.13	0.2674775	0.04509977	9.57E-09
C	T	0.12	0.2679169	0.04515988	9.48E-09
C	T	0.12	0.2679169	0.04515988	9.48E-09
C	T	0.12	0.2679169	0.04515988	9.48E-09
T	C	0.01	0.8711938	0.135722	6.70E-10
T	G	0.01	0.9185612	0.1311225	2.32E-11
G	T	0.01	0.9185612	0.1311225	2.32E-11
GA	G	0.01	0.9185612	0.1311225	2.32E-11
T	C	0.01	0.9185612	0.1311225	2.32E-11
A	G	0.02	0.790126	0.1240022	8.71E-10
G	T	0.02	0.7134673	0.1188279	6.47E-09
C	T	0.02	0.7233496	0.1216093	8.73E-09
A	G	0.02	0.8269266	0.1231638	1.26E-10
A	C	0.02	0.7134673	0.1188279	6.47E-09
A	C	0.01	0.7575117	0.1272706	8.58E-09
T	G	0.01	0.7098015	0.1145081	2.27E-09
G	T	0.01	0.7098015	0.1145081	2.27E-09

GA	G	0.01	0.7098015	0.1145081	2.27E-09
T	C	0.01	0.7098015	0.1145081	2.27E-09
A	G	0.02	0.6389088	0.1077451	9.65E-09
A	G	0.02	0.6587602	0.1069165	2.78E-09
A	G	0.02	0.7227095	0.1140859	1.11E-09
C	T	0.02	0.6428988	0.10498	3.39E-09
G	A	0.02	0.6428988	0.10498	3.39E-09
T	C	0.02	0.6409798	0.1045589	3.28E-09
T	G	0.01	0.7988066	0.1308035	3.72E-09
G	T	0.01	0.7988066	0.1308035	3.72E-09
GA	G	0.01	0.7988066	0.1308035	3.72E-09
T	C	0.01	0.7988066	0.1308035	3.72E-09
A	G	0.02	0.7342733	0.1226725	7.14E-09
A	C	0.01	1.005209	0.1440736	3.88E-11
G	A	0.02	0.7318383	0.1110128	3.35E-10
T	G	0.01	0.8660552	0.1364871	1.19E-09
G	T	0.01	0.8660552	0.1364871	1.19E-09
GA	G	0.01	0.8660552	0.1364871	1.19E-09
T	C	0.01	0.8660552	0.1364871	1.19E-09
A	C	0.02	0.7421062	0.1207662	3.28E-09
G	A	0.01	0.7379789	0.1230932	7.30E-09
C	T	0.02	0.6011051	0.09842701	4.02E-09
A	C	0.01	0.8140722	0.1357235	6.77E-09
G	T	0.02	0.9604171	0.1617772	9.22E-09
C	T	0.02	0.8956575	0.1435564	1.80E-09
G	A	0.02	0.8956575	0.1435564	1.80E-09
T	C	0.02	0.9020672	0.14257	1.11E-09
C	T	0.01	0.9213551	0.1477702	2.27E-09
T	G	0.02	0.9047466	0.1399733	6.59E-10
G	T	0.02	0.9047466	0.1399733	6.59E-10
GA	G	0.02	0.9047466	0.1399733	6.59E-10
T	C	0.02	0.9047466	0.1399733	6.59E-10
A	G	0.02	0.7885293	0.1317278	8.49E-09
A	G	0.02	0.8208477	0.1310307	1.94E-09
C	T	0.01	0.8950047	0.1426094	1.48E-09
CTT	C	0.01	0.8749763	0.1473118	9.12E-09
C	G	0.02	0.6165923	0.1033834	8.19E-09
C	G	0.02	0.6165923	0.1033834	8.19E-09
A	G	0.02	0.6165923	0.1033834	8.19E-09
A	G	0.02	0.6411941	0.1046554	3.32E-09
T	G	0.01	0.7842759	0.1290602	4.35E-09
G	T	0.01	0.7842759	0.1290602	4.35E-09
GA	G	0.01	0.7842759	0.1290602	4.35E-09
T	C	0.01	0.7842759	0.1290602	4.35E-09
T	G	0.01	0.7421456	0.1231299	5.77E-09
G	T	0.01	0.7421456	0.1231299	5.77E-09
GA	G	0.01	0.7421456	0.1231299	5.77E-09
T	C	0.01	0.7421456	0.1231299	5.77E-09
C	T	0.13	0.2580789	0.04333206	9.01E-09
G	C	0.13	0.2580789	0.04333206	9.01E-09

C	T	0.01	0.7309742	0.1220624	7.07E-09
GA	G	0.01	0.8132544	0.1359234	7.28E-09
T	G	0.01	0.7181376	0.1182946	4.55E-09
G	T	0.01	0.7181376	0.1182946	4.55E-09
GA	G	0.01	0.7181376	0.1182946	4.55E-09
T	C	0.01	0.7181376	0.1182946	4.55E-09
G	T	0.02	0.8707973	0.139758	1.97E-09
G	T	0.02	1.376816	0.2238551	3.63E-09
A	AACACAC	0.02	0.8005944	0.132318	5.72E-09
G	A	0.1	0.3539606	0.05828898	5.46E-09
G	A	0.09	-0.3556335	0.05880361	5.99E-09
T	C	0.01	1.195064	0.2018318	9.85E-09
A	G	0.11	0.3885673	0.06433103	5.98E-09
T	G	0.11	0.3885673	0.06433103	5.98E-09
G	A	0.11	0.3853151	0.06417927	7.25E-09
T	A	0.11	0.3885673	0.06433103	5.98E-09
A	G	0.11	0.3838658	0.06438007	9.01E-09
T	C	0.11	0.3954911	0.0643925	3.48E-09
A	G	0.11	0.3885673	0.06433103	5.98E-09
T	C	0.11	0.3851965	0.06411762	7.10E-09
T	C	0.11	0.3863846	0.06413612	6.50E-09
T	C	0.11	0.3863846	0.06413612	6.50E-09
C	G	0.01	1.003558	0.1614242	2.38E-09
C	T	0.02	0.7053591	0.118866	9.29E-09
C	G	0.11	-0.4024459	0.06742303	7.91E-09
A	ACACACACC	0.01	-1.568345	0.2558833	3.92E-09
A	G	0.22	0.2197727	0.03568374	2.87E-09
G	A	0.21	0.2135128	0.03541783	5.79E-09
T	C	0.21	0.2185312	0.03598129	4.55E-09
A	C	0.22	0.2141368	0.03501453	3.62E-09
T	C	0.21	0.2176864	0.03594589	5.00E-09
C	T	0.3	0.190701	0.03194056	7.89E-09
A	G	0.21	0.2139525	0.03582446	7.82E-09
G	C	0.22	0.2106923	0.03445771	3.65E-09
C	G	0.21	0.2273005	0.03566551	8.85E-10
G	A	0.21	0.2199627	0.03620311	4.49E-09
G	T	0.21	0.2267116	0.03552062	8.40E-10
C	T	0.21	0.2199627	0.03620311	4.49E-09
C	T	0.21	0.2154363	0.03556058	4.94E-09
A	G	0.21	0.2257289	0.03591514	1.44E-09
G	A	0.21	0.2287548	0.03527481	4.75E-10
T	C	0.21	0.2176628	0.03509865	2.28E-09
G	A	0.21	0.2198011	0.03586053	3.37E-09
T	G	0.21	0.2205007	0.03501601	1.35E-09
A	G	0.21	0.2277295	0.0352996	5.73E-10
T	G	0.21	0.2217978	0.03495169	1.03E-09
G	A	0.21	0.212695	0.03536868	6.27E-09
C	T	0.21	0.2219283	0.03561659	1.94E-09
A	G	0.21	0.216716	0.03599739	6.05E-09
G	A	0.21	0.2177726	0.03589323	4.70E-09

A	C	0.26	-0.2261112	0.03771366	6.54E-09
C	T	0.26	-0.237186	0.03794899	1.64E-09
C	T	0.25	-0.230236	0.0384301	6.70E-09
C	T	0.25	-0.2302047	0.03862378	7.90E-09
T	C	0.25	-0.230236	0.0384301	6.70E-09
A	T	0.11	0.1852749	0.04065582	7.47E-06
C	A	0.2	-0.1442052	0.03179158	8.20E-06
A	T	0.39	0.1152503	0.02555719	9.21E-06
T	TTGTG	0.06	-0.2549371	0.05276739	2.16E-06
G	T	0.37	-0.1220511	0.02603789	4.17E-06
C	CA	0.37	-0.120683	0.02598504	5.07E-06
T	C	0.37	-0.1215903	0.0259595	4.24E-06
G	A	0.37	-0.1200255	0.02590397	5.32E-06
G	A	0.37	-0.1204231	0.02589899	4.95E-06
C	G	0.33	-0.1208156	0.02638941	6.80E-06
C	T	0.33	-0.1230773	0.02662828	5.60E-06
C	A	0.33	-0.1237882	0.02651567	4.55E-06
AAAAC	A	0.33	-0.1247965	0.02649411	3.76E-06
G	A	0.33	-0.1224632	0.02654534	5.82E-06
G	A	0.33	-0.1196583	0.02661157	9.75E-06
C	A	0.34	-0.1239172	0.02664124	4.91E-06
G	C	0.03	-0.3310109	0.07042545	3.94E-06
G	A	0.16	-0.1620177	0.03573532	8.28E-06
G	T	0.04	-0.2948803	0.06492535	7.99E-06
G	A	0.04	-0.3048534	0.06518944	4.39E-06
G	A	0.03	-0.3219335	0.07166743	9.94E-06
CTTTCCTTCTTTCCTTC	C	0.04	-0.3321642	0.06670295	1.08E-06
CTTTA	C	0.01	-0.5531604	0.1173125	3.68E-06
GA	G	0.01	-0.5415598	0.1140305	3.15E-06
A	G	0.36	0.1305949	0.02584493	7.64E-07
T	A	0.22	0.1382969	0.03059707	8.80E-06
A	G	0.02	-0.3732701	0.08105789	6.04E-06
T	C	0.02	-0.4002363	0.08853978	8.78E-06
C	T	0.02	-0.4259474	0.08990547	3.32E-06
G	A	0.02	-0.4259474	0.08990547	3.32E-06
AT	A	0.02	-0.4555611	0.09823008	5.22E-06
\ATAAATAAATAAATA	A	0.1	-0.2025816	0.04256253	3.01E-06
A	G	0.03	0.3644487	0.07856216	5.19E-06
G	A	0.02	0.3559162	0.07923508	9.95E-06
A	T	0.01	-0.4889304	0.1086571	9.61E-06
G	T	0.01	-0.4889304	0.1086571	9.61E-06
G	A	0.01	-0.4889304	0.1086571	9.61E-06
C	CGT	0.06	-0.2491896	0.05279411	3.60E-06
T	C	0.02	-0.4314545	0.09069624	3.04E-06
C	T	0.04	-0.2820493	0.06211758	8.03E-06
T	C	0.04	-0.2820493	0.06211758	8.03E-06
T	G	0.04	-0.2712098	0.06023154	9.49E-06
TTTA	T	0.04	-0.2864792	0.0614241	4.64E-06
T	C	0.01	-0.5771667	0.119466	2.17E-06
C	T	0.05	-0.2668191	0.05722436	4.67E-06

C	T	0.06	-0.2418851	0.05379147	9.74E-06
G	A	0.27	-0.1245195	0.02663271	4.41E-06
T	C	0.06	-0.2606685	0.05126559	6.57E-07
G	A	0.06	-0.2606685	0.05126559	6.57E-07
T	C	0.06	-0.2495771	0.05024674	1.15E-06
C	A	0.06	-0.2545241	0.05328661	2.78E-06
T	C	0.06	-0.2656975	0.05029717	2.51E-07
T	C	0.07	-0.2491696	0.04982788	9.80E-07
G	A	0.12	0.1728291	0.03823912	8.81E-06
C	G	0.13	0.1749665	0.03693905	3.34E-06
A	G	0.13	0.1700466	0.03662928	5.11E-06
T	C	0.13	0.1669536	0.03686683	8.47E-06
G	C	0.13	0.1656747	0.03660295	8.56E-06
G	T	0.07	-0.2235045	0.04590825	1.82E-06
G	A	0.07	-0.2192298	0.04671534	4.07E-06
T	C	0.05	-0.2503286	0.05357087	4.46E-06
A	G	0.05	-0.2503286	0.05357087	4.46E-06
A	T	0.05	-0.2660105	0.0546222	1.81E-06
T	TG	0.05	-0.2503286	0.05357087	4.46E-06
TA	T	0.05	-0.2811746	0.05577774	8.09E-07
C	A	0.04	-0.3193112	0.05749753	6.44E-08
G	A	0.05	-0.3197732	0.05433251	1.14E-08
C	T	0.05	-0.2587867	0.0543659	3.00E-06
G	C	0.05	-0.2466272	0.05442527	8.36E-06
C	T	0.05	-0.2660105	0.0546222	1.81E-06
T	C	0.05	-0.2514632	0.05413537	5.05E-06
C	T	0.28	0.1281958	0.02739417	4.32E-06
G	A	0.28	0.1274713	0.02759673	5.67E-06
TG	T	0.27	0.1274459	0.02757808	5.62E-06
T	C	0.07	-0.2211845	0.0479104	5.73E-06
G	A	0.44	-0.1247131	0.02560252	1.80E-06
A	G	0.02	-0.3882307	0.0849638	7.08E-06
CTTTCTTTCTTTCTTTTC	C	0.08	0.2044321	0.04457772	6.57E-06
A	G	0.19	-0.1451656	0.03196496	8.01E-06
T	C	0.02	-0.4797663	0.09938169	2.20E-06
G	A	0.02	-0.4797663	0.09938169	2.20E-06
A	G	0.12	0.1789189	0.039269	7.50E-06
T	G	0.02	-0.4224648	0.09359044	9.03E-06
T	C	0.38	-0.1194126	0.02651477	9.45E-06
C	T	0.38	-0.1215758	0.02653518	6.70E-06
A	C	0.38	-0.1217354	0.02655712	6.63E-06
A	G	0.38	-0.1229517	0.02652948	5.29E-06
G	T	0.38	-0.1197805	0.02650581	8.83E-06
T	C	0.38	-0.1197805	0.02650581	8.83E-06
C	A	0.38	-0.1250643	0.02649057	3.58E-06
A	AAAGTT	0.1	-0.2021938	0.04494161	9.64E-06
A	G	0.09	-0.2091862	0.04518999	5.43E-06
C	T	0.03	0.3824887	0.08405376	7.69E-06
G	T	0.02	0.406835	0.08845432	6.19E-06
A	G	0.27	0.1348223	0.02950224	7.06E-06

A	G	0.29	0.1377577	0.02957565	4.77E-06
G	GA	0.43	0.1078699	0.02362773	7.20E-06
C	G	0.49	0.124962	0.02637188	3.31E-06
G	A	0.49	0.1269916	0.02690547	3.60E-06
T	C	0.26	-0.1547289	0.02811159	8.28E-08
G	A	0.19	-0.1503381	0.03333258	9.18E-06
T	C	0.2	-0.1512077	0.03302832	6.81E-06
C	A	0.2	-0.1512077	0.03302832	6.81E-06
G	A	0.2	-0.1514718	0.03280582	5.72E-06
G	A	0.2	-0.154543	0.03282637	3.81E-06
G	A	0.02	-0.5093219	0.1055685	2.23E-06
C	T	0.02	-0.5093219	0.1055685	2.23E-06
G	A	0.03	0.3816866	0.07726067	1.30E-06
G	GA	0.43	-0.1187484	0.02624873	8.64E-06
C	T	0.09	0.2263482	0.04752296	2.96E-06
C	T	0.07	-0.247878	0.05092888	1.83E-06
T	C	0.4	-0.1303935	0.02677176	1.80E-06
C	G	0.38	-0.1215649	0.02676633	7.99E-06
TA	T	0.39	-0.1310558	0.02696953	1.90E-06
C	T	0.39	-0.1285749	0.02693052	2.81E-06
T	C	0.39	-0.1317872	0.02694547	1.64E-06
C	T	0.35	-0.1259738	0.02583277	1.76E-06
G	T	0.36	-0.1258539	0.0257256	1.63E-06
T	C	0.5	0.1262342	0.02582591	1.66E-06
A	G	0.03	0.3731058	0.07858526	3.17E-06
C	A	0.06	0.2520762	0.05542855	7.78E-06
TTTAA	T	0.34	0.1159281	0.02445865	3.29E-06
T	C	0.02	-0.4265154	0.09257689	5.98E-06
C	T	0.06	-0.2860465	0.054741	3.32E-07
T	A	0.06	-0.2569211	0.0547936	4.15E-06
AAAAC	A	0.1	0.2138865	0.04549854	3.93E-06
A	C	0.45	-0.1186689	0.02594891	6.96E-06
C	T	0.18	0.16857	0.03457767	1.77E-06
C	A	0.06	0.251868	0.05530156	7.56E-06
G	A	0.07	0.2724008	0.0494738	8.20E-08
G	GA	0.07	0.2223934	0.04927159	9.05E-06
A	ACAGAAGTAGACTT	0.2	-0.1558148	0.0338123	5.95E-06
A	C	0.04	-0.3197243	0.07051835	8.27E-06
T	G	0.24	-0.1376441	0.03058877	9.61E-06
G	A	0.04	-0.322768	0.06998984	5.86E-06
G	A	0.14	0.1629577	0.03526427	5.62E-06
G	GTCAGCC	0.48	0.1210012	0.02547035	3.13E-06
C	T	0.18	-0.1533712	0.03220856	2.98E-06
A	ATT	0.09	0.186255	0.04031043	5.64E-06
A	C	0.11	0.1986185	0.04325991	6.42E-06
G	T	0.02	0.4075959	0.08866552	6.26E-06
A	T	0.02	0.4075959	0.08866552	6.26E-06
C	T	0.02	0.4075959	0.08866552	6.26E-06
GTC	G	0.04	0.2987613	0.0663052	9.36E-06
G	T	0.3	-0.1381616	0.02937151	3.87E-06

G	A	0.28	-0.1340323	0.0284076	3.63E-06
T	G	0.14	0.1852784	0.03983988	4.93E-06
A	C	0.03	-0.3556057	0.07564836	3.93E-06
C	T	0.03	-0.3517816	0.07648046	6.19E-06
A	C	0.03	-0.3517816	0.07648046	6.19E-06
C	T	0.03	-0.3517816	0.07648046	6.19E-06
AGTGTGT	A	0.03	-0.397123	0.0818468	1.97E-06
G	GGTGT	0.48	0.1184487	0.02580279	6.44E-06
A	G	0.02	-0.4729161	0.09833448	2.40E-06
A	G	0.06	0.2528802	0.05408199	4.40E-06
C	T	0.07	-0.2295658	0.05089123	9.15E-06
G	A	0.28	0.1252069	0.02783416	9.67E-06
G	A	0.39	-0.1114899	0.0244034	7.10E-06
A	T	0.02	0.5794012	0.09487117	3.54E-09
G	A	0.02	0.5577828	0.09330506	7.12E-09
T	C	0.02	0.5577828	0.09330506	7.12E-09
AAT	A	0.03	0.336587	0.05652076	8.38E-09
C	T	0.04	0.3418913	0.0558028	3.33E-09
T	G	0.04	-0.5310313	0.08864531	6.91E-09
C	T	0.02	-0.7723738	0.1209233	7.91E-10
C	T	0.05	0.4257701	0.07008012	4.15E-09
A	ATT	0.01	-0.6920098	0.1155425	7.11E-09
G	A	0.08	-0.2783683	0.04538524	3.26E-09
G	GTCTC	0.02	0.7655327	0.1281158	7.97E-09
T	A	0.02	0.6086807	0.09588546	1.36E-09
G	A	0.02	-0.946464	0.1586513	9.86E-09
A	T	0.04	-0.7284957	0.1144318	8.72E-10
C	T	0.06	-0.5503595	0.09158709	6.15E-09
C	CTT	0.01	-0.7445328	0.1184225	1.29E-09
G	A	0.12	-0.4127223	0.06922238	7.58E-09
A	ATATATGTGTGTG	0.02	-0.6860937	0.1088394	1.22E-09
C	T	0.02	-0.5899996	0.09876541	7.33E-09
G	GA	0.37	-0.1423434	0.02317806	3.42E-09
T	C	0.41	0.09291274	0.01556867	7.37E-09
T	C	0.39	0.09885523	0.01584861	1.70E-09
C	T	0.39	0.09740908	0.01587015	2.93E-09
T	C	0.35	0.1032293	0.01613648	6.96E-10
G	A	0.28	0.1036272	0.01731258	6.70E-09
C	G	0.35	0.1043532	0.01606505	3.99E-10
T	TGAC	0.35	0.09929479	0.01617288	2.91E-09
A	G	0.33	0.1041285	0.01607918	4.46E-10
T	C	0.35	0.1032898	0.01609846	6.26E-10
A	G	0.35	0.1032898	0.01609846	6.26E-10
G	T	0.35	0.1111118	0.01608185	3.63E-11
T	C	0.35	0.1042156	0.01610783	4.62E-10
T	C	0.35	0.1077266	0.01607991	1.24E-10
A	G	0.35	0.1071018	0.0160989	1.63E-10
T	G	0.34	0.1011085	0.01620181	1.67E-09
C	G	0.35	0.1052523	0.01613089	3.38E-10
C	T	0.27	0.1074647	0.01728453	1.90E-09

T	C	0.35	0.1042156	0.01610783	4.62E-10
G	A	0.34	0.1056914	0.01635256	4.80E-10
T	C	0.35	0.1042156	0.01610783	4.62E-10
G	C	0.35	0.1047716	0.0161181	3.89E-10
T	C	0.35	0.1047716	0.0161181	3.89E-10
A	G	0.35	0.107464	0.01614048	1.58E-10
A	G	0.35	0.1076577	0.01608776	1.30E-10
A	T	0.35	0.1047716	0.0161181	3.89E-10
T	C	0.35	0.1047716	0.0161181	3.89E-10
C	G	0.35	0.1064225	0.01606529	1.91E-10
T	G	0.35	0.105217	0.01606737	2.96E-10
G	T	0.31	0.1102839	0.01643441	1.16E-10
A	C	0.35	0.107013	0.01607572	1.59E-10
C	T	0.32	0.1110641	0.01646093	9.41E-11
A	G	0.32	0.1110641	0.01646093	9.41E-11
G	T	0.32	0.1117787	0.01647996	7.65E-11
G	C	0.32	0.1118006	0.01649671	7.90E-11
T	G	0.32	0.1117787	0.01647996	7.65E-11
T	G	0.35	0.1042156	0.01610783	4.62E-10
A	T	0.32	0.1108786	0.01649732	1.10E-10
C	A	0.28	0.1073971	0.01729732	1.99E-09
A	G	0.32	0.1110641	0.01646093	9.41E-11
C	T	0.32	0.1110641	0.01646093	9.41E-11
T	C	0.32	0.1128041	0.0164605	5.07E-11
T	C	0.32	0.1121916	0.01646844	6.43E-11
G	T	0.27	0.1079847	0.01727696	1.58E-09
G	A	0.32	0.1117787	0.01647996	7.65E-11
T	C	0.35	0.108206	0.01609684	1.09E-10
T	A	0.32	0.1110641	0.01646093	9.41E-11
AC	A	0.31	0.1062864	0.0166097	6.89E-10
C	T	0.32	0.1107356	0.01649429	1.14E-10
T	C	0.31	0.112153	0.01651182	7.23E-11
G	C	0.3	0.1043814	0.01661555	1.32E-09
A	T	0.32	0.1110641	0.01646093	9.41E-11
A	T	0.35	0.1076577	0.01608776	1.30E-10
T	C	0.36	0.112695	0.01605408	1.89E-11
G	A	0.32	0.1156093	0.01640786	1.62E-11
G	C	0.32	0.1156344	0.01638869	1.53E-11
C	T	0.34	0.09754339	0.01648234	9.63E-09
G	C	0.34	0.09754339	0.01648234	9.63E-09
A	T	0.33	0.09745273	0.01647017	9.69E-09
A	G	0.34	0.09800191	0.01650455	8.66E-09
G	C	0.34	0.09800191	0.01650455	8.66E-09
C	T	0.14	-0.3843494	0.08036928	2.71E-06
C	T	0.02	-0.9029085	0.1837563	1.48E-06
G	A	0.01	1.18952	0.2633656	8.93E-06
G	GGAGA	0.01	1.203161	0.2660732	8.72E-06
C	A	0.32	-0.2454081	0.05397502	7.82E-06
A	G	0.08	0.4776534	0.1006384	3.20E-06
C	T	0.29	-0.2669892	0.05829107	6.74E-06

T	C	0.41	0.2521238	0.05465725	5.83E-06
T	G	0.02	-0.9659442	0.214384	9.37E-06
G	A	0.01	-1.114163	0.2274572	1.59E-06
C	G	0.02	-0.9659442	0.214384	9.37E-06
C	T	0.02	0.9158161	0.1979699	5.50E-06
T	C	0.01	-1.122849	0.2228502	8.19E-07
T	C	0.21	-0.2938084	0.06495619	8.67E-06
C	T	0.04	-0.618705	0.1357526	7.45E-06
G	A	0.04	-0.618705	0.1357526	7.45E-06
T	C	0.39	-0.2543221	0.05584495	7.57E-06
T	C	0.39	-0.2515475	0.05366534	4.18E-06
C	T	0.38	-0.2474667	0.05382723	6.25E-06
C	T	0.38	-0.2474667	0.05382723	6.25E-06
T	C	0.39	-0.244109	0.05377131	8.06E-06
TTTTCTTTC	T	0.04	-0.6047729	0.1310087	5.74E-06
T	C	0.01	-1.234503	0.2312706	1.91E-07
A	G	0.01	-1.277578	0.271053	3.71E-06
G	A	0.02	-1.003792	0.2012755	1.04E-06
G	T	0.01	-1.195033	0.257948	5.33E-06
G	A	0.02	-0.9207987	0.1934656	3.01E-06
C	T	0.01	1.189007	0.2366526	8.76E-07
G	A	0.15	-0.3585722	0.07449949	2.35E-06
T	C	0.04	0.5809846	0.1256437	5.55E-06
C	G	0.39	-0.2437029	0.05395494	8.92E-06
A	G	0.02	0.9917662	0.2148414	5.74E-06
C	T	0.02	0.8937668	0.1879106	3.05E-06
C	G	0.11	0.3961419	0.08030457	1.35E-06
T	A	0.11	0.4689841	0.08733815	1.63E-07
C	T	0.1	0.4579329	0.0915182	9.66E-07
C	A	0.1	0.4626525	0.09176086	8.06E-07
T	C	0.1	0.4579329	0.0915182	9.66E-07
G	A	0.1	0.4579329	0.0915182	9.66E-07
G	A	0.1	0.4409563	0.09275582	3.09E-06
A	C	0.1	0.4646738	0.09215563	8.04E-07
G	A	0.1	0.4939102	0.09206495	1.67E-07
C	T	0.1	0.4705307	0.09171475	5.27E-07
T	C	0.1	0.4579329	0.0915182	9.66E-07
T	C	0.1	0.4579329	0.0915182	9.66E-07
C	G	0.1	0.4579329	0.0915182	9.66E-07
T	G	0.1	0.4513268	0.09166441	1.41E-06
G	A	0.1	0.4579329	0.0915182	9.66E-07
C	CTTG	0.1	0.4617929	0.0918191	8.55E-07
A	C	0.1	0.4579329	0.0915182	9.66E-07
T	C	0.49	0.2457348	0.05355505	6.50E-06
C	T	0.5	-0.2434676	0.05400862	9.27E-06
A	G	0.49	-0.2393948	0.05303749	9.04E-06
C	T	0.48	-0.2481515	0.05376783	5.77E-06
G	T	0.48	-0.2432171	0.05378367	8.71E-06
T	C	0.48	-0.2451018	0.05360721	6.99E-06
T	A	0.49	0.2596244	0.05422527	2.64E-06

T	TA	0.17	0.3497951	0.07708027	8.12E-06
T	C	0.03	-0.7159856	0.1532978	4.50E-06
G	C	0.06	0.5586762	0.1193148	4.27E-06
A	AGTGTGT	0.01	-1.246087	0.2432786	5.49E-07
T	C	0.45	0.2528348	0.05502652	6.32E-06
A	C	0.46	0.2570279	0.05543475	5.25E-06
G	A	0.45	0.2841989	0.05567364	5.96E-07
G	A	0.45	0.2801524	0.05568308	8.48E-07
T	C	0.46	0.2647538	0.05553916	2.91E-06
G	A	0.46	0.2647538	0.05553916	2.91E-06
TTTTAA	T	0.46	0.2636964	0.05533169	2.92E-06
T	C	0.46	0.2647538	0.05553916	2.91E-06
G	A	0.46	0.2647538	0.05553916	2.91E-06
G	A	0.45	0.2703126	0.05527068	1.64E-06
T	C	0.46	0.2587779	0.05534175	4.39E-06
C	G	0.45	0.260561	0.05510854	3.47E-06
C	T	0.46	0.2621149	0.05539861	3.42E-06
T	C	0.46	0.2647538	0.05553916	2.91E-06
C	T	0.46	0.2647538	0.05553916	2.91E-06
C	CAT	0.45	0.2486181	0.05496537	8.67E-06
G	T	0.46	0.2718372	0.05539687	1.52E-06
C	A	0.47	0.2486998	0.05507799	8.97E-06
C	G	0.47	-0.243903	0.05423163	9.71E-06
T	C	0.18	-0.3248031	0.06793867	2.73E-06
A	G	0.18	-0.3248031	0.06793867	2.73E-06
G	A	0.17	-0.3267499	0.06899314	3.35E-06
A	T	0.18	-0.3248031	0.06793867	2.73E-06
T	C	0.16	-0.3283845	0.07095345	5.45E-06
G	A	0.16	-0.3236365	0.07098869	7.41E-06
A	G	0.16	-0.3236111	0.07137363	8.27E-06
A	C	0.16	-0.3332346	0.07144592	4.64E-06
CACACACACAT	C	0.16	-0.3475664	0.0733983	3.36E-06
G	T	0.16	-0.3332346	0.07144592	4.64E-06
A	G	0.15	-0.3312907	0.07259866	7.27E-06
G	A	0.16	-0.328481	0.0724038	8.17E-06
G	A	0.15	-0.3331651	0.07282221	6.90E-06
T	A	0.15	-0.3293554	0.07299934	9.12E-06
C	T	0.15	-0.3303893	0.07295975	8.48E-06
G	A	0.15	-0.3303893	0.07295975	8.48E-06
G	A	0.15	-0.3331651	0.07282221	6.90E-06
A	G	0.15	-0.3446023	0.07329833	3.92E-06
C	T	0.14	-0.3466552	0.07714035	9.86E-06
GAGTTA	G	0.15	-0.3368517	0.07332434	6.34E-06
G	C	0.15	-0.3303893	0.07295975	8.48E-06
C	A	0.15	-0.3303893	0.07295975	8.48E-06
G	A	0.15	-0.3303893	0.07295975	8.48E-06
A	G	0.15	-0.3331651	0.07282221	6.90E-06
C	T	0.15	-0.3303893	0.07295975	8.48E-06
C	T	0.15	-0.3303893	0.07295975	8.48E-06
G	A	0.15	-0.3303893	0.07295975	8.48E-06

G	A	0.15	-0.3303893	0.07295975	8.48E-06
A	G	0.15	-0.3303893	0.07295975	8.48E-06
G	A	0.1	0.4263923	0.08749228	1.78E-06
C	T	0.1	0.409406	0.08784718	4.71E-06
C	G	0.23	0.2804403	0.0617929	8.11E-06
A	C	0.03	0.8305498	0.1595569	3.66E-07
C	T	0.03	0.8638161	0.1624065	2.10E-07
A	G	0.03	0.7281467	0.1575428	5.60E-06
A	G	0.03	0.8844561	0.1671726	2.41E-07
A	C	0.03	0.7929244	0.1550303	5.69E-07
T	A	0.03	0.7169321	0.1590395	9.28E-06
C	T	0.03	0.7629655	0.1697342	9.81E-06
T	G	0.03	0.7838508	0.1612187	1.88E-06
C	CTTGT	0.4	-0.2743609	0.05758527	2.94E-06
A	G	0.25	0.2948431	0.06252886	3.68E-06
CTG	C	0.07	0.4906556	0.1082292	8.29E-06
T	G	0.02	-0.8906951	0.1972624	8.98E-06
T	A	0.42	-0.243081	0.05221016	4.81E-06
C	T	0.4	-0.2481215	0.05378921	5.83E-06
T	C	0.4	-0.2468037	0.05354718	5.93E-06
G	A	0.41	-0.2443081	0.0532148	6.43E-06
G	A	0.41	-0.2406445	0.05304651	8.18E-06
C	A	0.4	-0.2442511	0.05388821	8.32E-06
A	T	0.34	-0.2625541	0.05752796	7.25E-06
C	G	0.35	-0.2561851	0.05639166	7.95E-06
CT	C	0.38	-0.2599952	0.05656993	6.29E-06
TAA	T	0.31	-0.2734766	0.05803518	3.73E-06
G	C	0.02	0.7775396	0.1709879	7.80E-06
C	G	0.24	-0.2730346	0.06043981	8.89E-06
C	G	0.01	1.0004	0.2221818	9.49E-06
G	A	0.07	-0.4748586	0.103097	6.01E-06
C	A	0.06	-0.5164384	0.1090466	3.35E-06
C	T	0.02	-1.017694	0.2081914	1.66E-06
T	C	0.02	-0.9953329	0.203884	1.71E-06
T	C	0.06	0.5506505	0.1194954	5.96E-06
A	C	0.06	0.5506505	0.1194954	5.96E-06
T	C	0.06	0.5506505	0.1194954	5.96E-06
G	A	0.06	0.5506505	0.1194954	5.96E-06
C	T	0.06	0.5506505	0.1194954	5.96E-06
C	T	0.06	0.5506505	0.1194954	5.96E-06
T	C	0.06	0.5506505	0.1194954	5.96E-06
T	C	0.06	0.5506505	0.1194954	5.96E-06
G	A	0.06	0.5506505	0.1194954	5.96E-06
G	A	0.06	0.5506505	0.1194954	5.96E-06
CTT	C	0.05	0.5614017	0.120155	4.47E-06
A	T	0.06	0.5506505	0.1194954	5.96E-06
C	G	0.06	0.5506505	0.1194954	5.96E-06
G	A	0.06	-0.527202	0.1146257	6.19E-06
A	G	0.07	-0.5496107	0.1123322	1.63E-06
G	A	0.06	-0.5345111	0.115009	4.99E-06

C	G	0.26	0.2761467	0.06036655	6.92E-06
G	T	0.26	0.2846363	0.0609069	4.45E-06
G	T	0.26	0.2741489	0.0610044	9.86E-06
T	A	0.26	0.2752698	0.06079676	8.50E-06
T	C	0.26	0.271375	0.05967767	7.80E-06
G	A	0.04	0.6816615	0.146934	5.18E-06
G	A	0.01	1.10227	0.238273	5.50E-06
C	T	0.01	1.10227	0.238273	5.50E-06
G	A	0.49	-0.253266	0.05285415	2.60E-06
C	T	0.49	-0.2482761	0.05364698	5.45E-06
C	T	0.49	-0.2500637	0.05338189	4.23E-06
A	C	0.45	0.2510832	0.05424073	5.43E-06
G	A	0.45	0.251412	0.0542518	5.30E-06
T	C	0.45	0.2441805	0.05422844	9.48E-06
T	C	0.46	0.25071	0.05395568	5.02E-06
C	T	0.02	-1.009362	0.2051156	1.43E-06
T	TTTTCTTC	0.1	0.389239	0.08653268	9.68E-06
A	AGAAG	0.13	0.380023	0.08282762	6.51E-06
T	A	0.02	0.7913223	0.1753773	9.11E-06
AT	A	0.05	-0.5012425	0.1105057	8.20E-06
C	T	0.25	0.2747835	0.05965634	6.01E-06
G	A	0.25	0.2747835	0.05965634	6.01E-06
G	A	0.24	-0.2727298	0.06040972	9.00E-06
G	A	0.06	-0.5129097	0.113412	8.70E-06
G	A	0.06	-0.5138121	0.1084888	3.35E-06
T	C	0.36	0.2563739	0.0563221	7.64E-06
T	C	0.38	0.2691306	0.05561342	2.09E-06
AAT	A	0.01	-0.7924559	0.1305386	4.29E-09
A	G	0.02	-0.8530944	0.1403125	4.00E-09
A	G	0.02	-0.8530944	0.1403125	4.00E-09
A	G	0.02	-0.8530944	0.1403125	4.00E-09
CA	C	0.02	-0.5621255	0.0947653	8.94E-09
C	T	0.01	0.6720533	0.1127881	8.39E-09
G	A	0.01	0.6720533	0.1127881	8.39E-09
C	CGTGTGTGT	0.01	0.6813051	0.1120408	4.30E-09
G	A	0.1	0.2628406	0.04291303	3.13E-09
G	A	0.02	0.6756073	0.1139576	9.23E-09
A	C	0.03	0.4858228	0.07933594	4.04E-09
C	T	0.03	0.4987428	0.07979624	2.06E-09
G	A	0.1	0.265499	0.04483134	9.43E-09
G	A	0.1	0.2958181	0.04372158	8.36E-11
C	T	0.1	0.2786713	0.04410561	1.08E-09
G	A	0.1	0.1917258	0.03208328	7.05E-09
T	C	0.43	-0.2620737	0.05352163	1.71E-06
G	T	0.41	-0.2520341	0.05402109	4.86E-06
T	C	0.42	-0.2513149	0.0538745	4.87E-06
C	G	0.42	-0.2537744	0.05364711	3.63E-06
G	T	0.42	-0.2602703	0.05361923	2.07E-06
G	A	0.42	-0.2548642	0.05357515	3.22E-06
G	T	0.41	-0.2543562	0.05421278	4.32E-06

T	C	0.41	-0.2510483	0.05373279	4.72E-06
C	T	0.4	-0.2549175	0.05415446	4.03E-06
G	A	0.41	-0.2543562	0.05421278	4.32E-06
C	T	0.4	-0.250585	0.05439332	6.30E-06
G	AATATCTCTGCCTGAC	0.01	1.227224	0.2655813	5.92E-06
C	T	0.01	1.269871	0.2689011	3.77E-06
T	C	0.02	1.117151	0.1987787	5.12E-08
A	G	0.01	1.149028	0.2399815	2.80E-06
A	G	0.05	0.5540508	0.122286	8.79E-06
C	G	0.02	0.9038613	0.1901778	3.29E-06
G	A	0.1	0.4142827	0.08888147	4.96E-06
T	G	0.02	1.023691	0.226122	8.93E-06
A	G	0.02	1.023691	0.226122	8.93E-06
A	G	0.02	1.023691	0.226122	8.93E-06
C	T	0.02	1.023691	0.226122	8.93E-06
C	G	0.02	1.023691	0.226122	8.93E-06
C	G	0.02	1.023691	0.226122	8.93E-06
A	T	0.02	1.023691	0.226122	8.93E-06
G	C	0.02	1.023691	0.226122	8.93E-06
T	C	0.02	1.023691	0.226122	8.93E-06
A	C	0.02	1.023691	0.226122	8.93E-06
T	C	0.01	1.173551	0.2287215	5.69E-07
T	C	0.29	0.2755461	0.05972918	6.12E-06
A	G	0.29	0.2686389	0.05932652	8.89E-06
T	TA	0.24	0.3065601	0.06809404	9.96E-06
G	A	0.01	1.13637	0.2509253	8.87E-06
A	G	0.02	1.054283	0.2290525	6.41E-06
A	G	0.01	1.119039	0.2410936	5.41E-06
G	A	0.01	1.119039	0.2410936	5.41E-06
C	T	0.01	1.119039	0.2410936	5.41E-06
AAG	A	0.29	-0.2839431	0.06014978	3.80E-06
G	C	0.02	0.9332858	0.20434	7.50E-06
C	T	0.21	0.3139743	0.06898288	8.03E-06
C	T	0.21	0.3164957	0.06881451	6.51E-06
C	T	0.21	0.3183349	0.06878881	5.75E-06
C	T	0.23	-0.2907855	0.06444656	9.54E-06
G	A	0.23	-0.2907855	0.06444656	9.54E-06
A	T	0.02	1.02708	0.2256285	8.01E-06
T	A	0.01	1.111329	0.2454433	8.91E-06
G	A	0.01	1.14953	0.2502023	6.66E-06
A	G	0.07	0.4610992	0.1017376	8.74E-06
G	T	0.07	0.4610992	0.1017376	8.74E-06
C	T	0.07	0.4610992	0.1017376	8.74E-06
C	T	0.07	0.4610992	0.1017376	8.74E-06
A	G	0.07	0.4610992	0.1017376	8.74E-06
C	T	0.07	0.4610992	0.1017376	8.74E-06
C	T	0.07	0.4610992	0.1017376	8.74E-06
C	G	0.07	0.4610992	0.1017376	8.74E-06
C	A	0.07	0.4610992	0.1017376	8.74E-06
G	A	0.07	0.4610992	0.1017376	8.74E-06

T	A	0.08	0.4555907	0.1006515	8.96E-06
G	C	0.08	0.4555907	0.1006515	8.96E-06
T	C	0.07	0.4610992	0.1017376	8.74E-06
G	C	0.05	0.6596982	0.1337339	1.44E-06
A	G	0.03	0.7760159	0.1699374	7.52E-06
TTG	T	0.07	0.4807693	0.1060913	8.76E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
C	T	0.01	1.228714	0.2695516	7.80E-06
T	C	0.01	1.228714	0.2695516	7.80E-06
G	T	0.01	1.228714	0.2695516	7.80E-06
T	C	0.01	1.362546	0.2776525	1.62E-06
A	G	0.01	1.228714	0.2695516	7.80E-06
A	G	0.01	1.228714	0.2695516	7.80E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
A	G	0.01	1.228714	0.2695516	7.80E-06
C	T	0.01	1.228714	0.2695516	7.80E-06
T	A	0.01	1.228714	0.2695516	7.80E-06
C	A	0.01	1.228714	0.2695516	7.80E-06
A	G	0.01	1.228714	0.2695516	7.80E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
TA	T	0.01	1.228714	0.2695516	7.80E-06
G	T	0.01	1.228714	0.2695516	7.80E-06
C	T	0.01	1.228714	0.2695516	7.80E-06
C	T	0.01	1.228714	0.2695516	7.80E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
A	G	0.01	1.228714	0.2695516	7.80E-06
T	C	0.01	1.228714	0.2695516	7.80E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
TG	T	0.01	1.228714	0.2695516	7.80E-06
A	T	0.01	1.228714	0.2695516	7.80E-06
C	G	0.01	1.228714	0.2695516	7.80E-06
C	G	0.01	1.228714	0.2695516	7.80E-06
C	T	0.01	1.228714	0.2695516	7.80E-06
C	A	0.01	1.228714	0.2695516	7.80E-06
C	A	0.01	1.228714	0.2695516	7.80E-06
G	A	0.01	1.228714	0.2695516	7.80E-06
AC	A	0.01	1.228714	0.2695516	7.80E-06
A	G	0.01	1.150252	0.240295	2.82E-06
GAA	G	0.05	0.5618113	0.1212365	5.59E-06
A	G	0.01	1.177763	0.2413228	1.84E-06
C	T	0.15	0.3439894	0.07581386	8.55E-06
C	G	0.15	0.3458961	0.07590007	7.83E-06
G	A	0.05	0.5826872	0.1253746	5.26E-06
G	T	0.12	0.3746511	0.08099518	5.80E-06
C	T	0.12	0.3899161	0.08346212	4.73E-06
C	A	0.13	0.3787302	0.0804969	4.08E-06
C	A	0.45	0.2634171	0.05474002	2.51E-06
C	A	0.01	1.182125	0.2568122	6.41E-06
A	C	0.02	0.9855726	0.2116778	5.07E-06
AACACACACAC	A	0.01	1.136904	0.2359468	2.44E-06

T	A	0.01	1.240886	0.2746277	9.28E-06
G	A	0.03	0.852592	0.1775951	2.64E-06
CA	C	0.2	0.3199607	0.06780105	3.82E-06
T	A	0.15	0.3480189	0.07701678	9.27E-06
ATGTGTGTGTG	A	0.02	0.7859146	0.1744809	9.87E-06
C	T	0.39	-0.2535047	0.05495407	6.13E-06
C	A	0.04	0.6658342	0.1391111	2.82E-06
CAATAAATAAATAAAT	C	0.01	1.295713	0.2794086	5.51E-06
C	A	0.47	-0.2543393	0.0525358	2.20E-06
G	A	0.04	0.6477116	0.136021	3.15E-06
C	T	0.01	1.185988	0.2629734	9.63E-06
T	C	0.01	1.326098	0.2698754	1.58E-06
G	A	0.27	0.2816177	0.06208981	8.61E-06
C	T	0.27	0.2812802	0.06209905	8.84E-06
A	C	0.15	-0.2004738	0.03370909	9.41E-09
C	T	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
T	C	0.15	-0.2004738	0.03370909	9.41E-09
C	T	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
A	C	0.15	-0.2004738	0.03370909	9.41E-09
T	C	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
C	T	0.15	-0.2004738	0.03370909	9.41E-09
T	A	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
T	C	0.15	-0.2004738	0.03370909	9.41E-09
C	T	0.15	-0.2004738	0.03370909	9.41E-09
T	G	0.15	-0.2004738	0.03370909	9.41E-09
C	A	0.15	-0.2004738	0.03370909	9.41E-09
G	T	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2004738	0.03370909	9.41E-09
T	A	0.15	-0.2004738	0.03370909	9.41E-09
A	G	0.15	-0.2002451	0.03366	9.32E-09
C	A	0.15	-0.2024933	0.03348485	5.54E-09
A	T	0.15	-0.2012148	0.0334428	6.52E-09
G	A	0.15	-0.2018631	0.03347064	6.04E-09
T	C	0.01	0.8390378	0.136748	3.47E-09
A	G	0.01	0.827529	0.1300723	1.03E-09
C	T	0.03	1.032991	0.1645199	2.10E-09
A	G	0.01	0.7315155	0.1230084	9.50E-09
G	GGA	0.01	-1.092122	0.1662518	3.38E-10
G	AATATCTCTGCCTGAC	0.01	0.819916	0.1318726	2.50E-09
G	A	0.03	0.4080148	0.06500206	1.90E-09
T	TAC	0.34	-0.1142251	0.02541545	9.84E-06
A	T	0.02	-0.4968293	0.1054545	3.75E-06
T	C	0.1	-0.2098408	0.04519807	5.10E-06
CTTCTT	C	0.36	0.1373806	0.02802909	1.56E-06
A	G	0.12	-0.1774606	0.03934354	9.17E-06

T	A	0.4	-0.1142274	0.02441592	4.35E-06
G	A	0.03	-0.3486045	0.07704805	8.62E-06
G	GA	0.02	-0.4620563	0.08803546	2.97E-07
T	C	0.09	-0.2180563	0.0461608	3.54E-06
C	T	0.09	-0.2180563	0.0461608	3.54E-06
A	G	0.08	-0.2195721	0.04675147	4.00E-06
C	A	0.09	-0.2126794	0.04603676	5.65E-06
C	T	0.08	-0.216896	0.04691881	5.58E-06
A	C	0.08	-0.216896	0.04691881	5.58E-06
G	A	0.09	-0.2196352	0.04541136	2.11E-06
A	G	0.08	-0.2195721	0.04675147	4.00E-06
G	T	0.08	-0.216896	0.04691881	5.58E-06
G	T	0.09	-0.2180563	0.0461608	3.54E-06
C	T	0.09	-0.2180563	0.0461608	3.54E-06
A	C	0.09	-0.2113423	0.04447614	3.12E-06
T	A	0.09	-0.2099658	0.04514423	4.92E-06
C	T	0.09	-0.2125373	0.04499942	3.55E-06
A	G	0.09	-0.2113423	0.04447614	3.12E-06
T	G	0.1	-0.2079033	0.04207423	1.30E-06
T	G	0.09	-0.2020186	0.04325716	4.51E-06
A	G	0.09	-0.2113423	0.04447614	3.12E-06
G	A	0.24	-0.148233	0.03182058	4.76E-06
C	T	0.24	-0.1499874	0.03180299	3.67E-06
G	T	0.24	-0.1499874	0.03180299	3.67E-06
G	A	0.23	-0.1472295	0.03186946	5.66E-06
A	G	0.24	-0.1499874	0.03180299	3.67E-06
C	G	0.02	-0.4933202	0.1071662	6.09E-06
A	C	0.04	-0.3074696	0.068448	9.94E-06
G	C	0.23	0.1426444	0.03142982	8.11E-06
A	G	0.22	0.1450545	0.03154022	6.20E-06
A	C	0.22	0.1435748	0.03163878	8.13E-06
GC	G	0.26	0.1446254	0.03162279	6.95E-06
G	A	0.33	-0.1366774	0.02864249	2.84E-06
G	A	0.04	-0.3487633	0.07290934	2.70E-06
T	TG	0.16	-0.1657108	0.03627212	7.10E-06
T	G	0.2	-0.1548877	0.03311315	4.36E-06
A	G	0.18	-0.1600617	0.03038209	2.69E-07
C	T	0.18	-0.1419266	0.03076586	5.83E-06
A	T	0.18	-0.1464357	0.03068848	2.85E-06
C	T	0.18	-0.155797	0.03051922	5.96E-07
C	T	0.17	-0.1656862	0.03583436	5.56E-06
G	C	0.24	0.1368308	0.03040773	9.61E-06
C	T	0.25	0.1411732	0.03007632	4.05E-06
A	AAAAAT	0.24	0.1470459	0.03047232	2.22E-06
C	A	0.25	0.1413752	0.03007919	3.94E-06
G	T	0.23	0.144677	0.03050664	3.25E-06
C	T	0.23	0.1465818	0.03047936	2.40E-06
G	A	0.23	0.1484826	0.03046977	1.78E-06
A	G	0.23	0.1484826	0.03046977	1.78E-06
C	T	0.23	0.1465818	0.03047936	2.40E-06

G	A	0.23	0.1500826	0.03046073	1.39E-06
G	A	0.23	0.1484826	0.03046977	1.78E-06
C	G	0.23	0.1464602	0.03047228	2.43E-06
A	G	0.23	0.1483291	0.03046162	1.81E-06
G	C	0.11	-0.1959384	0.04291803	7.20E-06
A	ATGTGTG	0.15	0.1704294	0.03786842	9.58E-06
A	T	0.29	0.1402728	0.02882434	1.84E-06
G	C	0.16	0.1616921	0.03581156	8.99E-06
C	G	0.29	0.1426145	0.02901072	1.46E-06
C	G	0.32	0.1300186	0.02813311	5.61E-06
C	CT	0.32	0.136194	0.02772743	1.49E-06
T	C	0.29	0.1446533	0.02886868	9.35E-07
A	C	0.29	0.1462048	0.02890222	7.44E-07
G	A	0.16	0.1667111	0.03582491	4.86E-06
T	A	0.28	0.1410158	0.02939867	2.54E-06
A	G	0.29	0.1401808	0.02912482	2.35E-06
A	G	0.16	0.1660153	0.03610028	6.21E-06
G	A	0.28	0.1364494	0.02943544	5.27E-06
G	T	0.28	0.1413993	0.02923932	2.12E-06
A	T	0.29	0.140049	0.02904234	2.26E-06
T	C	0.28	0.1431394	0.02929839	1.68E-06
G	A	0.28	0.1364494	0.02943544	5.27E-06
C	T	0.43	-0.1204265	0.02639395	7.29E-06
G	A	0.28	0.1345811	0.02944318	7.03E-06
G	A	0.28	0.1373926	0.02922949	3.94E-06
A	T	0.43	-0.1183551	0.0262951	9.56E-06
C	T	0.28	0.1341525	0.02922087	6.43E-06
T	C	0.29	0.1365993	0.02881855	3.29E-06
T	C	0.43	-0.1197647	0.02626731	7.39E-06
T	C	0.48	-0.1255598	0.0278001	8.93E-06
C	T	0.48	-0.125807	0.02780827	8.64E-06
T	A	0.39	0.1288739	0.02688012	2.57E-06
G	A	0.14	-0.1733727	0.03756572	5.77E-06
T	TGATGAAATGAAATG/	0.04	0.3203363	0.06651348	2.32E-06
C	T	0.01	-0.6143123	0.1292425	3.10E-06
TATAAC	T	0.01	-0.6155189	0.1280034	2.40E-06
CGTGT	C	0.07	-0.2457227	0.05243045	4.19E-06
G	C	0.27	-0.1421157	0.02991017	3.12E-06
A	C	0.27	-0.1421157	0.02991017	3.12E-06
C	T	0.18	-0.153228	0.03363808	7.53E-06
C	A	0.03	-0.3851141	0.080855	2.96E-06
C	T	0.01	0.9922811	0.2137153	5.12E-06
G	GAA	0.01	-0.9722041	0.2155073	9.18E-06
G	GCACA	0.03	-0.5810104	0.125973	5.88E-06
G	A	0.02	-0.710667	0.1562989	7.85E-06
G	A	0.02	-0.7249958	0.1590516	7.46E-06
T	C	0.01	0.8505991	0.1893567	9.98E-06
T	C	0.01	0.8505991	0.1893567	9.98E-06
C	T	0.01	0.9293353	0.2057673	8.97E-06
T	C	0.01	0.8505991	0.1893567	9.98E-06

CT	C	0.02	-0.769535	0.1692381	7.84E-06
C	T	0.17	-0.2806577	0.06232424	9.51E-06
G	A	0.16	-0.2919797	0.0627298	4.86E-06
C	T	0.06	-0.4061066	0.08984919	8.84E-06
T	A	0.05	0.4867795	0.1054768	5.80E-06
A	G	0.24	0.2466526	0.0510635	2.19E-06
C	G	0.24	0.2396153	0.05089457	3.82E-06
T	C	0.02	-0.7103281	0.1577965	9.58E-06
T	A	0.02	-0.7223135	0.1540481	4.17E-06
A	C	0.06	-0.4521745	0.09903867	7.22E-06
AG	A	0.06	-0.456478	0.09999113	7.24E-06
A	G	0.06	-0.456478	0.09999113	7.24E-06
T	C	0.03	0.6660704	0.1468773	8.27E-06
A	G	0.12	-0.3173288	0.06920709	6.63E-06
G	C	0.21	-0.2633198	0.05781787	7.60E-06
C	T	0.12	-0.3303142	0.06860821	2.35E-06
C	T	0.02	-0.8001165	0.1750981	7.10E-06
ACACACACACACACA	T	0.07	0.3940008	0.0853562	5.78E-06
G	T	0.31	-0.2253532	0.0501455	9.90E-06
A	C	0.31	-0.2253532	0.0501455	9.90E-06
ATTTGTG	A	0.05	-0.4823912	0.105629	7.19E-06
CTGAGG	C	0.17	-0.3249295	0.06402219	6.92E-07
G	A	0.18	-0.2848151	0.06206256	6.51E-06
C	T	0.18	-0.2814844	0.06202802	8.16E-06
C	T	0.18	-0.2812652	0.06210758	8.50E-06
C	T	0.18	-0.2997927	0.06214948	2.25E-06
T	TA	0.02	-0.6868945	0.1523449	9.28E-06
C	G	0.01	-0.8983756	0.1970415	7.43E-06
C	CGATTACAGGTGTGA	0.05	-0.4914246	0.1049463	4.29E-06
A	ATGTGTGTGTG	0.01	-0.9069667	0.1887782	2.46E-06
T	C	0.02	-0.8695489	0.1879195	5.49E-06
G	GT	0.06	0.4131175	0.08968635	6.03E-06
CGT	C	0.03	-0.6172231	0.1302248	3.31E-06
A	G	0.08	-0.3707055	0.08065823	6.32E-06
C	T	0.02	-0.7539935	0.1491395	7.60E-07
A	G	0.02	-0.7440135	0.1489468	1.01E-06
C	G	0.03	-0.6125721	0.1304932	4.07E-06
ATTC	A	0.02	-0.7709492	0.1514116	6.39E-07
G	C	0.04	0.6566726	0.1197734	9.32E-08
C	CTT	0.01	0.9025033	0.1809035	1.04E-06
G	T	0.08	-0.3770565	0.08106717	4.94E-06
G	C	0.04	0.4471294	0.0738419	5.72E-09
C	A	0.26	-0.1623818	0.02719508	7.24E-09
G	A	0.02	0.4986865	0.08281608	5.88E-09
G	C	0.04	0.3930929	0.06044217	3.82E-10
CT	C	0.03	0.3919961	0.0644	3.93E-09
T	C	0.01	0.6424169	0.108213	9.18E-09
AACACACAC	A	0.01	-0.8532568	0.139045	3.29E-09
G	GTTTGT	0.01	-1.216371	0.2010279	4.93E-09
A	G	0.01	0.8493537	0.1398353	4.33E-09

G	A	0.01	0.8216955	0.1367469	6.15E-09
A	C	0.01	0.8216955	0.1367469	6.15E-09
G	C	0.04	0.3969143	0.06658927	7.67E-09
G	C	0.04	0.3868036	0.06174162	1.47E-09
T	TA	0.28	0.1103396	0.01809477	3.68E-09
C	T	0.01	0.5394443	0.08480711	9.40E-10
T	G	0.01	-1.004463	0.1658049	4.56E-09
G	T	0.01	-1.004463	0.1658049	4.56E-09
GA	G	0.01	-1.004463	0.1658049	4.56E-09
T	C	0.01	-1.004463	0.1658049	4.56E-09
CTAAAGT	C	0.27	-0.1837512	0.02996049	3.68E-09
T	C	0.01	0.5039836	0.08267954	3.71E-09
A	AACACAC	0.01	0.5559653	0.08668858	6.38E-10
A	G	0.01	1.089442	0.1816549	7.63E-09
C	T	0.01	1.089442	0.1816549	7.63E-09
C	T	0.01	1.089442	0.1816549	7.63E-09
G	C	0.02	0.5312361	0.08973956	9.53E-09
A	G	0.01	-0.5772891	0.1160177	1.10E-06
T	C	0.45	-0.1049365	0.02312785	8.15E-06
A	T	0.02	-0.4392989	0.09470653	5.20E-06
A	ACAC	0.01	-0.4905676	0.1090337	9.63E-06
G	A	0.02	-0.4111167	0.08707723	3.58E-06
C	T	0.01	-0.4777823	0.1063549	9.93E-06
G	A	0.02	-0.3935677	0.08418705	4.42E-06
G	A	0.01	-0.5437771	0.117366	5.33E-06
G	A	0.01	-0.5437771	0.117366	5.33E-06
T	A	0.01	-0.5437771	0.117366	5.33E-06
C	CCA	0.01	-0.6124858	0.1158723	2.47E-07
G	C	0.09	-0.1877904	0.04098805	6.70E-06
T	A	0.08	-0.1895411	0.04130265	6.48E-06
A	G	0.09	-0.1877904	0.04098805	6.70E-06
G	C	0.09	-0.1877904	0.04098805	6.70E-06
A	C	0.09	-0.1877904	0.04098805	6.70E-06
T	C	0.09	-0.1877904	0.04098805	6.70E-06
G	A	0.09	-0.1877904	0.04098805	6.70E-06
C	CAG	0.22	0.1210038	0.02652044	7.29E-06
A	G	0.22	0.121874	0.02677576	7.65E-06
TACAC	T	0.15	-0.1563474	0.03469052	9.31E-06
G	T	0.02	-0.4239776	0.09054363	4.27E-06
C	T	0.02	-0.4239776	0.09054363	4.27E-06
A	G	0.02	-0.4239776	0.09054363	4.27E-06
A	G	0.02	-0.4239776	0.09054363	4.27E-06
G	A	0.11	-0.1662214	0.03492749	3.02E-06
G	GA	0.35	-0.1080251	0.02393739	9.08E-06
T	A	0.34	-0.1122751	0.02408693	4.70E-06
C	CT	0.3	-0.112175	0.02481449	8.77E-06
T	C	0.11	-0.174193	0.03507942	1.16E-06
T	C	0.11	-0.1707016	0.03518293	1.97E-06
C	T	0.41	0.1187366	0.0233285	6.41E-07
C	G	0.11	-0.1693873	0.03481179	1.84E-06

C	A	0.25	-0.1267309	0.02578934	1.47E-06
T	C	0.01	-0.50824	0.1094842	5.12E-06
C	G	0.01	-0.5132003	0.1093173	4.04E-06
G	A	0.01	-0.5132003	0.1093173	4.04E-06
CTTTATTTA	C	0.02	-0.4229105	0.08466801	1.01E-06
3GGCCAATGTCAACT#	T	0.12	-0.1608246	0.03556092	8.70E-06
C	T	0.04	-0.2629838	0.05757459	7.13E-06
A	C	0.04	-0.2641299	0.05757177	6.52E-06
CTGAGT	C	0.04	-0.2644849	0.05757159	6.34E-06
T	C	0.04	-0.255245	0.05586716	7.09E-06
C	T	0.04	-0.255245	0.05586716	7.09E-06
G	A	0.04	-0.255245	0.05586716	7.09E-06
CA	C	0.04	-0.2554018	0.05512287	5.32E-06
A	AAAT	0.01	-0.4723137	0.100685	4.11E-06
G	A	0.16	-0.1458937	0.03229819	8.91E-06
C	T	0.16	-0.1458937	0.03229819	8.91E-06
C	T	0.15	-0.1531578	0.03322068	5.90E-06
C	T	0.16	-0.1474618	0.03242533	7.79E-06
G	T	0.16	-0.1474618	0.03242533	7.79E-06
C	T	0.16	-0.1492935	0.03244822	6.15E-06
T	C	0.17	-0.1444337	0.03179429	7.96E-06
G	A	0.16	-0.1487701	0.03234683	6.20E-06
T	A	0.44	0.1062747	0.02229533	2.91E-06
C	G	0.23	-0.1238274	0.02746071	9.22E-06
T	C	0.01	-0.4378919	0.09614352	7.55E-06
C	G	0.02	-0.4153449	0.08724759	3.00E-06
A	T	0.02	-0.4153449	0.08724759	3.00E-06
T	G	0.32	0.111734	0.02474784	8.99E-06
C	T	0.32	0.1139379	0.02469363	5.80E-06
T	C	0.01	-0.605717	0.1120751	1.37E-07
C	A	0.01	-0.487224	0.1038228	4.07E-06
AAAGAAAGAAAGAA#	A	0.03	-0.2909621	0.06357063	6.84E-06
C	A	0.02	-0.3427797	0.07394511	5.27E-06
TTGTC	T	0.02	-0.369059	0.07392805	1.02E-06
G	A	0.02	-0.4167807	0.09072264	6.34E-06
AAC	A	0.03	-0.318865	0.06999809	7.53E-06
ACTCATT	A	0.05	-0.2364828	0.05202287	7.85E-06
A	G	0.47	-0.1043172	0.02258023	5.65E-06
A	C	0.02	-0.3879454	0.08046265	2.27E-06
GATGAA	G	0.05	-0.2517109	0.05425575	5.18E-06
T	G	0.22	0.1288702	0.02794927	5.88E-06
T	TACAC	0.21	0.1347434	0.02862076	3.81E-06
A	G	0.42	0.1124866	0.02401537	4.24E-06
C	T	0.42	0.1218429	0.02406339	7.27E-07
C	T	0.41	0.1180165	0.02407068	1.55E-06
CAGAGAGAGAGAG	C	0.03	-0.3347887	0.07049374	3.15E-06
TAAAC	T	0.01	-0.5240744	0.10588	1.25E-06
C	CTG	0.03	-0.3414897	0.07169478	2.96E-06
CAAAACAA	C	0.01	-0.5381415	0.1163478	5.52E-06
G	A	0.04	-0.2905482	0.06246421	4.91E-06

A	G	0.12	-0.1773867	0.0389787	7.68E-06
C	T	0.03	-0.3209774	0.0673302	2.91E-06
G	A	0.11	0.2102007	0.03530415	8.88E-09
T	C	0.11	0.2102007	0.03530415	8.88E-09
C	T	0.11	0.2102007	0.03530415	8.88E-09
T	G	0.11	0.2182789	0.03636836	6.89E-09
G	A	0.11	0.2102007	0.03530415	8.88E-09
A	G	0.11	0.2127683	0.03536317	6.37E-09
C	T	0.13	0.2094313	0.033448	1.70E-09
A	G	0.13	0.2094313	0.033448	1.70E-09
A	T	0.13	0.208914	0.03429236	4.25E-09
G	A	0.13	0.2049454	0.03334515	3.18E-09
A	G	0.12	0.2060237	0.03372113	3.87E-09
T	C	0.12	0.2060237	0.03372113	3.87E-09
T	TG	0.12	0.2033579	0.03378896	6.30E-09
G	A	0.12	0.2060237	0.03372113	3.87E-09
C	T	0.12	0.2060237	0.03372113	3.87E-09
A	G	0.12	0.209126	0.03377083	2.47E-09
T	TTCCC	0.12	0.2033579	0.03378896	6.30E-09
C	T	0.12	0.2060237	0.03372113	3.87E-09
G	A	0.12	0.2060237	0.03372113	3.87E-09
C	G	0.12	0.2060237	0.03372113	3.87E-09
C	G	0.12	0.2060237	0.03372113	3.87E-09
C	T	0.12	0.2060237	0.03372113	3.87E-09
C	A	0.12	0.2060237	0.03372113	3.87E-09
T	C	0.12	0.2060237	0.03372113	3.87E-09
G	A	0.12	0.2060237	0.03372113	3.87E-09
G	A	0.12	0.2060237	0.03372113	3.87E-09
A	G	0.12	0.2060237	0.03372113	3.87E-09
T	A	0.12	0.2038398	0.03380493	5.93E-09
T	C	0.1	0.2295891	0.03667779	1.72E-09
A	G	0.12	0.2060237	0.03372113	3.87E-09
C	T	0.12	0.2060237	0.03372113	3.87E-09
G	A	0.12	0.208397	0.03373899	2.70E-09
G	A	0.12	0.2094213	0.03374632	2.30E-09
C	T	0.12	0.2049995	0.03380044	4.92E-09
T	G	0.12	0.2060237	0.03372113	3.87E-09
A	C	0.12	0.209126	0.03377083	2.47E-09
T	TAC	0.12	0.2033579	0.03378896	6.30E-09
C	T	0.12	0.2060237	0.03372113	3.87E-09
A	G	0.12	0.2060237	0.03372113	3.87E-09
A	G	0.12	0.2060237	0.03372113	3.87E-09
A	G	0.12	0.2071494	0.033772	3.40E-09
A	C	0.12	0.2060237	0.03372113	3.87E-09
T	A	0.12	0.2060237	0.03372113	3.87E-09
T	G	0.12	0.2060237	0.03372113	3.87E-09
G	A	0.12	0.2060237	0.03372113	3.87E-09
A	T	0.12	0.2141175	0.03462496	2.59E-09
G	C	0.12	0.2217493	0.03448133	6.68E-10
A	G	0.11	0.2143741	0.03476512	2.85E-09

C	T	0.11	0.2175778	0.03467759	1.58E-09
C	T	0.12	0.2209152	0.0345624	8.31E-10
C	T	0.12	0.2184107	0.03451148	1.18E-09
A	C	0.12	0.2184107	0.03451148	1.18E-09
A	G	0.12	0.2184107	0.03451148	1.18E-09
T	C	0.36	-0.2799298	0.04657296	6.41E-09
G	A	0.03	0.3537931	0.05918491	7.69E-09
G	A	0.03	0.3537931	0.05918491	7.69E-09
G	A	0.02	0.6078056	0.1017652	8.61E-09
C	T	0.24	0.1314257	0.0210246	1.96E-09
G	T	0.01	0.8153168	0.1368027	8.81E-09
C	CAAA	0.01	0.5422655	0.09018305	6.87E-09
T	C	0.4	-0.255861	0.05218017	1.55E-06
T	TCTC	0.01	1.258075	0.2544651	1.28E-06
G	A	0.22	-0.2956707	0.06301572	4.09E-06
A	C	0.15	-0.360913	0.076261	3.41E-06
C	G	0.16	-0.3477088	0.07329745	3.24E-06
CCACACACACA	C	0.14	-0.3531119	0.07707975	6.72E-06
G	A	0.22	0.289686	0.06388774	8.27E-06
C	T	0.02	-0.7824187	0.1696846	5.89E-06
A	G	0.49	-0.232187	0.05020719	5.54E-06
TCTTCCTTC	T	0.16	-0.3264675	0.06910396	3.54E-06
A	AG	0.02	-0.9813175	0.2110293	4.94E-06
T	\GAGAGAGAGAGAG\	0.01	1.182147	0.2475696	2.81E-06
A	G	0.11	-0.3882358	0.07969141	1.80E-06
T	A	0.01	-1.348407	0.2555074	2.58E-07
T	C	0.31	0.2603726	0.05782046	9.48E-06
A	C	0.32	0.2676402	0.05698921	4.01E-06
G	C	0.23	0.2903212	0.0620852	4.40E-06
G	A	0.04	-0.6841136	0.1354138	7.69E-07
C	T	0.49	-0.2566929	0.05225288	1.49E-06
T	C	0.02	-0.9701046	0.2129839	7.55E-06
A	ATG	0.05	0.5352908	0.1168816	6.76E-06
AC	A	0.12	0.3752161	0.08040862	4.59E-06
T	C	0.07	-0.4839424	0.100346	2.25E-06
G	C	0.06	-0.4683101	0.1009879	5.23E-06
A	ATG	0.05	-0.5710912	0.1259839	8.31E-06
G	C	0.21	-0.3092687	0.06593165	4.12E-06
T	C	0.23	-0.2975132	0.06526315	7.43E-06
G	A	0.27	-0.2796674	0.06147184	7.73E-06
AAATAATAAT	A	0.26	-0.2668675	0.05456556	1.64E-06
C	CCT	0.05	0.5777623	0.125738	6.32E-06
A	AT	0.05	0.5601763	0.121023	5.44E-06
T	G	0.32	-0.2592128	0.05578774	5.02E-06
A	C	0.32	-0.2584987	0.05585641	5.46E-06
G	A	0.34	0.2776016	0.0564563	1.45E-06
C	G	0.28	0.2561789	0.05684906	9.35E-06
C	T	0.28	0.2561789	0.05684906	9.35E-06
G	A	0.28	0.2561789	0.05684906	9.35E-06
C	T	0.01	0.7913319	0.1187104	1.50E-10

G	T	0.01	-0.6166259	0.1037422	9.79E-09
G	A	0.01	-0.6166259	0.1037422	9.79E-09
C	T	0.01	-0.6166259	0.1037422	9.79E-09
C	T	0.01	-0.6166259	0.1037422	9.79E-09
C	A	0.01	-0.6166259	0.1037422	9.79E-09
A	C	0.01	-0.6166259	0.1037422	9.79E-09
A	G	0.29	-0.144088	0.0242979	9.04E-09
C	T	0.28	-0.1554477	0.02475369	1.34E-09
C	T	0.28	-0.1457357	0.0244078	7.27E-09
T	C	0.28	-0.1478083	0.02469029	6.68E-09
G	T	0.28	-0.149389	0.02479733	5.45E-09
G	A	0.28	-0.1492772	0.0247587	5.30E-09
T	C	0.23	-0.1624687	0.02548728	7.92E-10
T	C	0.23	-0.1633871	0.02524734	4.59E-10
A	G	0.24	-0.1465216	0.02456293	7.49E-09
T	C	0.25	-0.1551347	0.02380618	3.55E-10
C	T	0.23	-0.1683635	0.02545145	2.02E-10
A	G	0.23	-0.1565822	0.02530172	2.23E-09
C	G	0.23	-0.157175	0.02514318	1.58E-09
T	G	0.03	0.4715807	0.07753407	4.56E-09
C	T	0.02	-0.3995276	0.06702763	7.69E-09
T	G	0.02	-0.4047413	0.06641536	3.74E-09
G	A	0.02	-0.445128	0.07299964	3.67E-09
A	T	0.01	0.482297	0.1032117	4.46E-06
C	T	0.01	0.482297	0.1032117	4.46E-06
T	A	0.01	0.4811226	0.1032869	4.76E-06
C	T	0.47	0.1007018	0.02201497	6.92E-06
A	AT	0.32	0.1056449	0.02326104	7.99E-06
GGCTC	G	0.01	0.4768983	0.102708	5.09E-06
G	A	0.03	0.2839238	0.06019519	3.66E-06
T	C	0.02	0.3794701	0.08253803	6.24E-06
G	C	0.02	0.3794701	0.08253803	6.24E-06
C	T	0.02	0.3963566	0.08490803	4.55E-06
G	A	0.07	0.2036711	0.0431166	3.54E-06
G	GCA	0.08	0.1950565	0.04237718	6.10E-06
C	G	0.07	0.2036711	0.0431166	3.54E-06
T	A	0.07	0.1997116	0.04300746	5.08E-06
T	A	0.07	0.2080943	0.04325807	2.38E-06
G	A	0.04	0.2718467	0.06004975	8.53E-06
G	A	0.07	0.2129055	0.04438935	2.54E-06
CTCTTT	C	0.01	0.4849471	0.107197	8.65E-06
A	T	0.01	0.4672162	0.09780511	2.78E-06
T	C	0.1	0.1698756	0.03571244	3.05E-06
G	C	0.01	0.5193925	0.1063798	1.71E-06
G	C	0.01	0.5193925	0.1063798	1.71E-06
TA	T	0.02	0.3836557	0.0809321	3.28E-06
GA	G	0.02	0.3792577	0.0783127	2.05E-06
T	C	0.02	0.362907	0.07974465	7.68E-06
C	T	0.38	0.103216	0.02247119	6.36E-06
GAC	G	0.03	0.3274255	0.06818742	2.48E-06

T	C	0.05	0.2403195	0.05310604	8.59E-06
T	G	0.02	0.4413566	0.08930645	1.29E-06
C	T	0.02	0.4581516	0.08738458	3.05E-07
TATAAAATAAAA	T	0.02	0.4694462	0.09096421	4.55E-07
G	C	0.09	0.2004988	0.03858379	3.83E-07
C	T	0.03	0.2866319	0.06290028	7.48E-06
A	G	0.03	0.2979461	0.06217738	2.59E-06
CATCT	C	0.05	0.2360719	0.05175058	7.32E-06
G	A	0.05	0.2360719	0.05175058	7.32E-06
T	G	0.05	0.2360719	0.05175058	7.32E-06
T	C	0.05	0.2360719	0.05175058	7.32E-06
G	GTGTGTA	0.03	0.3241239	0.06910347	4.12E-06
C	CGTGTGT	0.04	0.2917727	0.06131307	3.02E-06
C	T	0.01	0.4801118	0.1031178	4.81E-06
A	G	0.01	0.5259599	0.1063015	1.26E-06
CGT	C	0.02	0.3677219	0.07136834	4.74E-07
A	T	0.02	0.3406213	0.07366881	5.56E-06
T	A	0.11	0.1598745	0.03517788	7.89E-06
T	C	0.09	0.1836014	0.0386803	3.19E-06
T	G	0.05	0.2210496	0.04724058	4.33E-06
G	A	0.05	0.2313299	0.04766007	1.95E-06
A	G	0.03	0.3043595	0.06615852	6.16E-06
C	G	0.02	0.424436	0.08910382	2.96E-06
C	T	0.05	0.2391622	0.05247758	7.46E-06
A	C	0.01	0.4497866	0.1000994	9.88E-06
T	C	0.02	0.3836169	0.08385879	6.91E-06
G	A	0.09	0.1705276	0.03749876	7.79E-06
GGTGGTGT	G	0.11	-0.1688679	0.03706368	7.50E-06
C	CTAA	0.02	0.4178401	0.09090406	6.27E-06
A	C	0.03	0.269333	0.05581529	2.22E-06
G	A	0.01	0.5509584	0.1059521	3.76E-07
GCA	G	0.01	0.4393947	0.09272679	3.31E-06
G	C	0.16	0.142032	0.02974262	2.80E-06
AC	A	0.16	0.1358829	0.02982473	7.50E-06
CACAAA	C	0.13	0.1495543	0.03280332	7.40E-06
T	C	0.01	0.4227355	0.09295724	7.79E-06
T	C	0.03	0.3257812	0.07049841	5.62E-06
G	A	0.17	0.1339999	0.02976535	9.52E-06
A	G	0.13	0.1527431	0.03246445	3.86E-06
IAAAGAAAGAAAGAA	A	0.01	0.5256865	0.1098374	2.67E-06
G	T	0.01	0.4746276	0.09483049	9.60E-07
C	G	0.03	0.2844117	0.06294598	8.86E-06
A	G	0.44	0.1015097	0.02205891	6.13E-06
A	AACACAC	0.04	0.278572	0.05579387	1.02E-06
T	C	0.04	0.2636006	0.05850749	9.38E-06
G	A	0.02	0.3985859	0.08738174	7.33E-06
C	T	0.02	0.4021654	0.08767594	6.54E-06
T	C	0.4	0.1203536	0.02350213	5.52E-07
C	T	0.38	0.1016575	0.02258304	9.54E-06
T	C	0.41	0.1047708	0.02235336	4.18E-06

C	CTG	0.02	0.3952597	0.08705102	8.04E-06
A	G	0.04	0.3043233	0.05720021	2.08E-07
A	G	0.04	0.2881654	0.05645779	5.98E-07
C	T	0.01	0.4847954	0.105369	6.15E-06
T	TTCTATCTA	0.06	0.2223182	0.04817485	5.78E-06
C	T	0.01	0.5292288	0.1091046	1.98E-06
TATATC	T	0.02	0.3210745	0.07065757	7.91E-06
T	C	0.04	0.2876121	0.05630949	5.88E-07
A	AAGAGAG	0.1	0.1802221	0.0392178	6.30E-06
A	ATGTGTGTATGTG	0.5	-0.0970671	0.02159969	9.86E-06
AACAC	A	0.01	0.4705263	0.1019334	5.75E-06
G	A	0.27	-0.1153424	0.02511449	6.38E-06
T	A	0.01	0.4410046	0.09644951	6.98E-06
C	CA	0.02	0.3914376	0.08271043	3.40E-06
A	G	0.01	0.4975873	0.1096672	8.15E-06
T	A	0.25	0.1218461	0.0256418	3.12E-06
GTGT	G	0.04	0.2796139	0.05924169	3.60E-06
A	AT	0.04	0.2796139	0.05924169	3.60E-06
G	A	0.04	0.2796139	0.05924169	3.60E-06
C	T	0.04	0.2866361	0.05967012	2.46E-06
A	G	0.04	0.2798802	0.05926231	3.56E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
A	T	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
T	G	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
C	G	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
T	A	0.01	0.4953781	0.1049183	3.58E-06
T	A	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
C	A	0.01	0.4953781	0.1049183	3.58E-06
G	T	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
G	C	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
A	T	0.01	0.4953781	0.1049183	3.58E-06
T	A	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
T	G	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
C	A	0.01	0.4953781	0.1049183	3.58E-06

A	G	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
C	T	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
G	GA	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
G	T	0.01	0.4953781	0.1049183	3.58E-06
T	A	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
A	T	0.01	0.4953781	0.1049183	3.58E-06
A	T	0.01	0.4953781	0.1049183	3.58E-06
G	T	0.01	0.4953781	0.1049183	3.58E-06
G	T	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
G	A	0.01	0.4953781	0.1049183	3.58E-06
T	C	0.01	0.4953781	0.1049183	3.58E-06
T	G	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
T	TA	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.01	0.4953781	0.1049183	3.58E-06
A	G	0.02	0.3597961	0.07851854	6.68E-06
A	T	0.47	-0.101605	0.02250726	9.02E-06
A	G	0.01	0.4863821	0.1039576	4.34E-06
C	T	0.01	0.4849395	0.09696717	9.78E-07
C	CGTGTGT	0.02	0.377225	0.07215316	3.28E-07
G	A	0.1	0.1670724	0.03574297	4.43E-06
A	G	0.39	-0.106787	0.02211553	2.19E-06
GTTTT	G	0.01	0.4437272	0.0936009	3.28E-06
T	C	0.01	0.4773441	0.1041503	6.65E-06
T	TATA	0.06	0.2091678	0.04485023	4.64E-06
G	A	0.05	0.2311371	0.05082436	7.78E-06
G	T	0.01	0.5017594	0.107464	4.53E-06
ACAATC	A	0.03	0.3312997	0.07127865	4.99E-06
G	A	0.03	0.3161602	0.06660372	3.19E-06
A	G	0.01	0.4794813	0.1065703	9.64E-06
T	C	0.48	0.1022125	0.02259998	8.69E-06
A	G	0.16	-0.138208	0.03007938	6.32E-06
T	C	0.01	0.43177	0.09563706	9.00E-06
CTTTTATCCCGCACTC	C	0.03	0.2944898	0.06520278	8.93E-06
C	T	0.03	0.2944898	0.06520278	8.93E-06
G	A	0.08	0.188527	0.03898741	2.12E-06
A	G	0.28	0.1116104	0.02383715	4.27E-06
T	A	0.27	0.1126978	0.02398634	3.97E-06
T	TTGTG	0.17	0.1422276	0.03155516	9.30E-06
C	G	0.09	0.1852436	0.03948389	4.10E-06
T	G	0.06	0.2072849	0.0453457	7.02E-06
T	G	0.2	0.1340824	0.027527	1.80E-06

ATAAC	A	0.19	0.1277946	0.02798219	7.15E-06
T	C	0.2	0.1317616	0.02770058	3.05E-06
G	A	0.2	0.1308767	0.02770479	3.54E-06
G	T	0.2	0.1341465	0.02779345	2.21E-06
T	A	0.17	0.1331492	0.02918217	7.29E-06
T	TA	0.13	0.1602829	0.03309405	2.05E-06
A	G	0.16	0.1394545	0.02958832	3.72E-06
A	G	0.49	-0.1033393	0.02219611	4.81E-06
GCACACA	G	0.33	0.1140091	0.0244794	4.78E-06
CAGGCAGGCAGGCAC	G	0.01	0.4601045	0.09967725	5.75E-06
G	A	0.03	0.2842887	0.06232554	7.33E-06
TAC	T	0.03	0.2842887	0.06232554	7.33E-06
G	A	0.41	0.1116548	0.02250534	1.18E-06
T	C	0.41	0.1088468	0.02254627	2.20E-06
A	T	0.41	0.1068109	0.02244991	3.03E-06
A	G	0.41	0.1081062	0.02248846	2.42E-06
G	A	0.41	0.1096037	0.0223553	1.55E-06
G	GACACACACACACAC	0.03	0.3135335	0.06607539	3.21E-06
C	G	0.03	0.3013479	0.06510065	5.43E-06
G	T	0.03	0.3013479	0.06510065	5.43E-06
C	T	0.03	0.3137302	0.06710233	4.41E-06
T	C	0.01	0.559838	0.1040111	1.53E-07
A	G	0.01	0.4584719	0.09992839	6.51E-06
C	A	0.2	0.132584	0.02771658	2.70E-06
A	G	0.04	0.2702951	0.06008827	9.67E-06
T	A	0.04	0.2703581	0.06009802	9.66E-06
G	A	0.03	0.2807277	0.06060185	5.35E-06
A	G	0.02	0.4015413	0.08932784	9.81E-06
C	CA	0.02	0.4294507	0.09081204	3.46E-06
T	C	0.02	0.4305284	0.09088462	3.33E-06
A	ATGTGTGTGTG	0.1	0.1803829	0.03834387	3.87E-06
G	A	0.01	0.4690099	0.09665261	1.96E-06
CT	C	0.11	-0.1546333	0.03404404	7.98E-06
A	G	0.37	-0.1071404	0.02259308	3.26E-06
CA	C	0.27	0.1174897	0.02452144	2.60E-06
CTCCA	C	0.03	0.3156754	0.06916898	7.25E-06
C	CACACACAT	0.11	0.1652198	0.03646518	8.38E-06
C	G	0.01	0.3848513	0.08405735	6.80E-06
A	ACCAGTC	0.01	0.4651261	0.098068	3.25E-06
G	A	0.02	0.371999	0.07721671	2.31E-06
G	A	0.02	0.371999	0.07721671	2.31E-06
G	A	0.02	0.371999	0.07721671	2.31E-06
T	C	0.02	0.371999	0.07721671	2.31E-06
C	A	0.02	0.371999	0.07721671	2.31E-06
T	TCTATCTATCTAT	0.01	0.444929	0.0961696	5.49E-06
C	T	0.02	0.4160804	0.09108395	7.12E-06
T	C	0.03	0.3147804	0.05985901	2.82E-07
C	CCACACACA	0.02	0.3429888	0.07254964	3.48E-06
C	A	0.24	-0.1129214	0.02507757	9.48E-06
T	C	0.25	-0.1197204	0.02505054	2.75E-06

AAATT	A	0.24	-0.1142713	0.02528293	8.81E-06
A	G	0.25	-0.1197204	0.02505054	2.75E-06
A	T	0.25	-0.1197204	0.02505054	2.75E-06
C	G	0.25	-0.1197204	0.02505054	2.75E-06
C	CA	0.24	-0.1174954	0.02516357	4.53E-06
G	T	0.25	-0.1197905	0.02514521	2.95E-06
A	G	0.43	-0.1089027	0.02301615	3.42E-06
A	G	0.47	-0.1081267	0.0230822	4.23E-06
G	C	0.47	-0.1081267	0.0230822	4.23E-06
CAA	C	0.4	0.09676717	0.02147448	9.35E-06
A	G	0.48	-0.1082644	0.02289417	3.46E-06
G	A	0.46	-0.1067204	0.02304764	5.39E-06
G	A	0.01	0.4233454	0.08399569	8.13E-07
TA	T	0.03	0.3003374	0.06350539	3.45E-06
G	GA	0.04	-0.3595686	0.05917732	4.71E-09
C	CTAT	0.12	0.1922636	0.03231488	8.31E-09
G	A	0.19	0.180402	0.03027091	7.96E-09
T	C	0.1	0.1904961	0.03121307	3.65E-09
A	G	0.11	0.1867605	0.03117051	6.66E-09
G	A	0.09	0.213317	0.0348527	3.32E-09
C	T	0.05	-0.5747305	0.09645702	7.93E-09
G	C	0.03	-0.6113359	0.1001298	4.06E-09
AT	A	0.03	-0.6113359	0.1001298	4.06E-09
C	T	0.03	-0.6113359	0.1001298	4.06E-09
A	G	0.03	-0.6113359	0.1001298	4.06E-09
G	A	0.03	-0.6113359	0.1001298	4.06E-09
C	T	0.03	-0.6113359	0.1001298	4.06E-09
A	G	0.03	-0.6113359	0.1001298	4.06E-09
T	G	0.03	-0.6113359	0.1001298	4.06E-09
A	G	0.03	-0.6113359	0.1001298	4.06E-09
G	GT	0.03	-0.6113359	0.1001298	4.06E-09
G	C	0.15	-0.2333016	0.03925324	8.59E-09
A	G	0.01	-0.8503325	0.135063	1.37E-09
C	T	0.02	-0.7068994	0.1173284	5.70E-09
C	A	0.04	0.3219916	0.0518873	2.10E-09
T	A	0.02	0.8639761	0.1359146	8.98E-10
A	G	0.03	-0.5297978	0.08901186	8.02E-09
CT	C	0.08	-0.2519364	0.03861466	4.30E-10
G	T	0.03	-0.7042106	0.1187431	9.24E-09
G	T	0.13	0.2689967	0.04391213	3.23E-09
G	A	0.02	-0.9076167	0.1487547	3.56E-09
C	A	0.02	-0.9429925	0.1483372	8.67E-10
C	T	0.02	-0.8955576	0.1489108	5.73E-09
C	T	0.01	-1.034177	0.1655276	1.59E-09
C	T	0.01	-1.135269	0.1724926	2.43E-10
A	C	0.02	-0.8955576	0.1489108	5.73E-09
GGTGTGTGTGTGT	G	0.01	-1.180816	0.1897901	1.84E-09
G	GAAGA	0.08	-0.4492608	0.07547997	7.99E-09
C	A	0.01	-1.094194	0.1835735	8.01E-09
A	G	0.01	-0.8731113	0.1430835	3.82E-09

T	A	0.01	0.761092	0.125793	4.70E-09
A	C	0.05	-0.3761688	0.0610113	2.52E-09
G	GT	0.03	-0.4184073	0.07011377	9.79E-09
G	C	0.01	-1.06675	0.1759524	5.20E-09
C	T	0.01	-0.9791334	0.1646219	9.55E-09
G	C	0.01	-0.9791334	0.1646219	9.55E-09
C	T	0.02	-0.785722	0.1293643	4.91E-09
C	T	0.02	-0.8663192	0.1438402	6.43E-09
C	T	0.03	0.630526	0.1012614	2.04E-09
C	T	0.13	0.2955341	0.04853599	4.29E-09
T	C	0.01	1.054575	0.1728648	3.86E-09
C	A	0.01	0.5581091	0.09415824	9.14E-09
C	T	0.01	0.7435788	0.1225216	5.04E-09
C	T	0.01	0.5589069	0.09343002	6.87E-09
G	GGA	0.01	-1.001429	0.1581142	1.05E-09
A	C	0.01	0.5685081	0.09164511	2.33E-09
T	C	0.01	0.5685081	0.09164511	2.33E-09
G	C	0.03	0.4314934	0.07194371	6.36E-09
A	T	0.02	0.5091679	0.08046438	1.04E-09
G	A	0.02	0.4976746	0.07909934	1.27E-09
T	C	0.02	0.4976746	0.07909934	1.27E-09
AT	A	0.02	0.4841783	0.0779208	1.96E-09
A	AT	0.02	0.9842587	0.1605821	3.85E-09
G	C	0.06	0.3253511	0.05398203	6.30E-09
GGTGTGTGTGTGT	G	0.01	-0.9657547	0.1625155	8.45E-09
T	C	0.01	-0.6851964	0.1143545	7.16E-09
C	CCAT	0.01	0.6559564	0.1058867	2.48E-09
C	A	0.02	0.442173	0.0736167	6.81E-09
C	T	0.02	-0.7643155	0.1258093	4.34E-09
T	G	0.02	0.5317073	0.08790995	5.01E-09
TA	T	0.01	-0.5015347	0.07792428	5.66E-10
A	AT	0.01	0.5842211	0.09833673	9.08E-09
A	G	0.02	-0.6664279	0.1092928	3.70E-09
CA	C	0.09	0.187639	0.03057136	2.98E-09
C	CACACATAT	0.01	0.6501128	0.1069546	4.06E-09
GA	G	0.06	-0.2411277	0.04944328	1.75E-06
G	A	0.02	-0.3945453	0.08051306	1.57E-06
C	T	0.01	-0.5150188	0.1132087	7.73E-06
C	T	0.49	0.1189753	0.0248669	2.68E-06
C	T	0.48	0.1163056	0.02486244	4.36E-06
TGATAGATA	T	0.13	-0.1743189	0.0384371	8.23E-06
G	A	0.2	-0.1429246	0.03168943	9.18E-06
A	G	0.16	-0.1628542	0.03356825	1.97E-06
A	G	0.41	-0.1281834	0.02618892	1.61E-06
A	G	0.21	0.1351542	0.02984144	8.45E-06
G	A	0.31	-0.1232299	0.02736891	9.49E-06
A	G	0.21	0.138033	0.0300322	6.28E-06
T	A	0.21	0.1428782	0.02996203	2.89E-06
A	G	0.21	0.1413744	0.02967958	2.96E-06
G	C	0.31	-0.123913	0.02738598	8.62E-06

A	G	0.46	-0.1227456	0.02422021	7.12E-07
T	C	0.48	-0.1116303	0.02481988	9.70E-06
C	T	0.48	-0.1137659	0.02472157	6.12E-06
T	TTCTA	0.21	0.1457725	0.03119472	4.45E-06
T	C	0.2	0.1436193	0.03182811	9.10E-06
TTTG	T	0.01	-0.5146103	0.1085814	3.30E-06
TTAAG	T	0.18	-0.1483956	0.03301775	9.84E-06
ATT	A	0.17	0.1539516	0.03246695	3.26E-06
T	C	0.38	-0.1239942	0.02531676	1.59E-06
C	T	0.01	-0.5110534	0.1069813	2.78E-06
G	GACACAC	0.05	-0.2615457	0.05798554	9.17E-06
A	G	0.2	-0.1407792	0.03108873	8.48E-06
A	AGGAGACTT	0.2	-0.1385545	0.03036659	7.29E-06
G	A	0.03	-0.3544923	0.07766935	7.24E-06
C	T	0.2	0.1432485	0.03082056	4.99E-06
A	T	0.13	0.1931434	0.0396424	1.79E-06
T	G	0.13	0.1791872	0.03983356	9.67E-06
C	T	0.07	0.2189643	0.04831896	8.36E-06
G	A	0.06	0.2516719	0.05373391	4.25E-06
C	T	0.02	-0.4500864	0.09787542	6.22E-06
C	T	0.02	-0.3909435	0.08605674	7.95E-06
C	T	0.01	-0.568039	0.1106747	5.22E-07
A	AGGAT	0.02	-0.5422731	0.1028505	2.64E-07
G	A	0.19	-0.1466181	0.03237369	8.46E-06
A	G	0.04	-0.2851767	0.06313592	8.92E-06
T	C	0.09	-0.1978478	0.04310164	6.45E-06
T	G	0.09	-0.1978478	0.04310164	6.45E-06
T	C	0.2	-0.1465316	0.03182862	6.07E-06
G	A	0.01	-0.5569979	0.1125207	1.24E-06
G	A	0.01	-0.5700275	0.1261002	8.78E-06
G	A	0.01	-0.5700275	0.1261002	8.78E-06
TA	T	0.01	-0.5811086	0.1215529	2.73E-06
C	CGG	0.02	-0.4354472	0.09338905	4.67E-06
T	C	0.47	-0.1163931	0.02471875	3.79E-06
T	C	0.01	-0.5303422	0.1125623	3.74E-06
T	C	0.01	-0.5303422	0.1125623	3.74E-06
T	G	0.01	-0.5144579	0.1128387	7.40E-06
C	A	0.01	-0.4816509	0.1044964	5.93E-06
A	C	0.01	-0.4816509	0.1044964	5.93E-06
G	A	0.01	-0.4816509	0.1044964	5.93E-06
G	A	0.01	-0.4816509	0.1044964	5.93E-06
G	A	0.01	-0.4816509	0.1044964	5.93E-06
G	A	0.01	-0.4816509	0.1044964	5.93E-06
CAG	C	0.01	-0.4816509	0.1044964	5.93E-06
TTCTC	T	0.01	-0.4816509	0.1044964	5.93E-06
A	C	0.01	-0.4816509	0.1044964	5.93E-06
C	T	0.01	-0.4816509	0.1044964	5.93E-06
C	T	0.01	-0.4816509	0.1044964	5.93E-06
A	T	0.01	-0.4816509	0.1044964	5.93E-06
C	G	0.01	-0.4816509	0.1044964	5.93E-06

T	C	0.01	-0.4816509	0.1044964	5.93E-06
C	A	0.01	-0.4816509	0.1044964	5.93E-06
C	T	0.01	-0.5936096	0.1236699	2.50E-06
T	A	0.01	-0.5936096	0.1236699	2.50E-06
G	GCAC	0.01	-0.5936096	0.1236699	2.50E-06
A	G	0.01	-0.5936096	0.1236699	2.50E-06
A	T	0.01	-0.5936096	0.1236699	2.50E-06
A	G	0.01	-0.5936096	0.1236699	2.50E-06
C	G	0.01	-0.5936096	0.1236699	2.50E-06
T	C	0.01	-0.5936096	0.1236699	2.50E-06
C	G	0.01	-0.5936096	0.1236699	2.50E-06
T	C	0.01	-0.5936096	0.1236699	2.50E-06
G	A	0.03	-0.3672704	0.07879436	4.70E-06
ATT	A	0.01	-0.5375078	0.1120267	2.52E-06
T	C	0.04	-0.2789997	0.06204913	9.75E-06
C	A	0.04	-0.2789997	0.06204913	9.75E-06
T	TA	0.03	-0.3457956	0.07670639	9.27E-06
T	C	0.26	0.1348861	0.02817103	2.64E-06
G	A	0.26	0.1331108	0.0281973	3.59E-06
T	C	0.01	-0.5220608	0.1154056	8.65E-06
G	A	0.02	-0.3971379	0.08808916	9.26E-06
G	A	0.24	0.1332454	0.02794811	2.90E-06
G	A	0.03	-0.3364009	0.06927012	1.93E-06
T	C	0.03	-0.3151314	0.06919001	7.55E-06
AT	A	0.08	-0.2083998	0.04615708	8.99E-06
C	T	0.14	-0.176992	0.03756834	3.75E-06
G	A	0.11	0.3735698	0.08201372	7.65E-06
G	A	0.02	0.8927953	0.1932559	5.74E-06
A	T	0.25	-0.285434	0.06134027	4.94E-06
A	ATG	0.02	0.9441832	0.1939795	1.86E-06
T	C	0.18	0.3413875	0.07176473	3.09E-06
T	C	0.18	0.3326622	0.07219329	6.05E-06
C	CAA	0.18	0.3297511	0.07286022	8.69E-06
T	C	0.18	0.334614	0.07289696	6.54E-06
G	A	0.18	0.3362082	0.07295938	6.04E-06
A	G	0.17	0.3354757	0.07442353	9.41E-06
C	G	0.34	0.2768664	0.05890026	4.00E-06
C	G	0.38	-0.264586	0.0555582	3.02E-06
C	T	0.41	0.2494571	0.05510814	8.66E-06
T	C	0.41	0.255803	0.05532072	5.63E-06
G	A	0.41	0.258664	0.05534895	4.52E-06
A	G	0.41	0.2549439	0.0555346	6.53E-06
A	G	0.41	0.2505945	0.05565701	9.62E-06
A	G	0.41	0.2533468	0.05508826	6.30E-06
A	G	0.44	0.2476284	0.05267514	3.99E-06
C	T	0.41	0.2729082	0.05476918	1.09E-06
C	G	0.41	0.2591875	0.05502927	3.83E-06
C	G	0.41	0.2538618	0.05543031	6.85E-06
T	TGGC	0.42	0.2552468	0.05457154	4.44E-06
G	A	0.41	0.2621875	0.05537916	3.43E-06

C	G	0.4	0.268195	0.05441308	1.40E-06
G	A	0.02	0.8915878	0.1897444	4.03E-06
C	T	0.01	1.062277	0.2238613	3.26E-06
C	T	0.01	1.106676	0.2426122	7.43E-06
T	C	0.01	1.191216	0.2453568	1.97E-06
G	GTGACACAC	0.02	0.8167443	0.1816602	9.90E-06
T	C	0.01	1.059751	0.2341775	8.71E-06
C	T	0.01	1.205388	0.266197	8.60E-06
C	T	0.26	-0.2836965	0.06021948	3.81E-06
A	G	0.02	0.8461748	0.1869594	8.68E-06
C	CGTGTGT	0.08	0.462195	0.102539	9.42E-06
C	T	0.01	1.308508	0.2577524	6.98E-07
A	G	0.43	0.250664	0.05557774	9.31E-06
T	C	0.43	0.2495146	0.05527973	9.16E-06
A	T	0.45	-0.263356	0.0548784	2.56E-06
C	T	0.43	0.2493244	0.05547895	9.99E-06
G	A	0.47	-0.2590135	0.05551847	4.68E-06
C	T	0.43	0.2515349	0.05550248	8.46E-06
G	A	0.43	0.2522575	0.055622	8.34E-06
T	G	0.49	-0.2541205	0.05491105	5.54E-06
C	A	0.49	-0.253499	0.05495489	5.92E-06
T	C	0.49	-0.2542389	0.05470184	5.07E-06
G	A	0.01	1.061862	0.2312472	6.50E-06
T	C	0.02	0.8627273	0.1855444	5.02E-06
A	T	0.02	0.8627273	0.1855444	5.02E-06
T	C	0.01	1.179424	0.2322904	6.95E-07
C	T	0.02	0.88851	0.1973621	9.65E-06
G	GGTGTGTGT	0.01	1.300367	0.2695516	2.28E-06
G	A	0.01	1.205517	0.2593918	5.07E-06
T	C	0.35	0.2566756	0.0560427	6.85E-06
T	C	0.36	0.2542873	0.0561135	8.47E-06
G	A	0.36	0.2542873	0.0561135	8.47E-06
A	G	0.36	0.2542873	0.0561135	8.47E-06
T	G	0.35	0.2555051	0.05611917	7.72E-06
C	T	0.36	0.2545901	0.05535818	6.29E-06
T	A	0.37	0.255622	0.05481088	4.72E-06
C	T	0.37	0.2446899	0.05405887	8.67E-06
C	A	0.36	0.2542873	0.0561135	8.47E-06
T	C	0.36	0.2542873	0.0561135	8.47E-06
A	T	0.36	0.2542873	0.0561135	8.47E-06
G	T	0.36	0.2531434	0.05596794	8.80E-06
A	G	0.35	0.2634914	0.05584388	3.69E-06
A	G	0.35	0.2740015	0.05606948	1.70E-06
C	T	0.02	0.8190207	0.1764884	5.23E-06
G	A	0.01	1.185266	0.2488593	3.01E-06
G	T	0.01	1.265664	0.2600061	1.86E-06
C	G	0.01	1.16454	0.2563809	8.09E-06
G	A	0.01	1.16454	0.2563809	8.09E-06
T	C	0.03	0.8306183	0.1764697	3.88E-06
C	T	0.03	0.7368229	0.1490881	1.32E-06

G	T	0.1	0.4933554	0.0966604	6.12E-07
T	G	0.28	0.2659363	0.05837304	7.62E-06
G	T	0.06	0.5215347	0.1135137	6.42E-06
A	T	0.04	0.7538411	0.1361887	7.28E-08
C	T	0.06	0.5495422	0.1091339	8.48E-07
T	C	0.03	0.6807331	0.147948	6.23E-06
ATC	A	0.01	1.17319	0.2455274	2.81E-06
T	C	0.03	0.7865007	0.1500546	3.15E-07
T	C	0.03	0.7865007	0.1500546	3.15E-07
T	A	0.03	0.7796858	0.1732785	9.75E-06
C	A	0.03	0.7796858	0.1732785	9.75E-06
G	A	0.03	0.7796858	0.1732785	9.75E-06
T	G	0.06	0.5074601	0.1117166	8.08E-06
A	G	0.06	0.5074601	0.1117166	8.08E-06
T	C	0.06	0.5074601	0.1117166	8.08E-06
A	G	0.02	1.056622	0.2290335	5.90E-06
C	T	0.02	1.103622	0.2266696	1.85E-06
C	T	0.02	0.9852915	0.2162042	7.57E-06
T	C	0.02	0.9852915	0.2162042	7.57E-06
G	A	0.02	1.024424	0.2200479	4.89E-06
C	A	0.02	0.9852915	0.2162042	7.57E-06
GA	G	0.02	0.9852915	0.2162042	7.57E-06
TA	T	0.02	0.9852915	0.2162042	7.57E-06
T	C	0.02	0.9852915	0.2162042	7.57E-06
T	G	0.02	1.058666	0.2218605	2.89E-06
C	G	0.02	0.9833589	0.2031595	2.11E-06
C	T	0.02	1.178921	0.2268793	3.92E-07
G	C	0.02	1.178921	0.2268793	3.92E-07
T	G	0.02	1.178921	0.2268793	3.92E-07
G	A	0.02	1.178921	0.2268793	3.92E-07
T	C	0.02	1.178921	0.2268793	3.92E-07
G	C	0.02	1.178921	0.2268793	3.92E-07
G	A	0.02	1.178921	0.2268793	3.92E-07
C	T	0.02	1.178921	0.2268793	3.92E-07
C	T	0.02	1.178921	0.2268793	3.92E-07
T	A	0.02	1.178921	0.2268793	3.92E-07
C	T	0.02	1.178921	0.2268793	3.92E-07
A	T	0.02	1.090124	0.2215627	1.46E-06
C	T	0.02	1.047616	0.222236	3.76E-06
ATT	A	0.02	1.090124	0.2215627	1.46E-06
C	T	0.02	1.090124	0.2215627	1.46E-06
T	A	0.02	1.090124	0.2215627	1.46E-06
ACACACACACACAC	G	0.02	1.037439	0.2223412	4.67E-06
G	GT	0.02	1.021085	0.2193237	4.89E-06
AC	A	0.01	1.214477	0.2552182	3.07E-06
T	C	0.02	1.090124	0.2215627	1.46E-06
T	A	0.02	1.090124	0.2215627	1.46E-06
GGTGTGTGT	G	0.03	0.6836556	0.1487798	6.40E-06
G	A	0.02	0.8828473	0.1841773	2.62E-06
C	T	0.02	0.8696249	0.1445424	6.09E-09

A	T	0.04	0.7192657	0.1149678	1.98E-09
A	G	0.44	0.2562536	0.04212784	4.22E-09
CT	C	0.48	-0.2450301	0.04054341	5.27E-09
C	G	0.4	0.2579772	0.04218617	3.58E-09
C	T	0.02	0.7292935	0.1224136	8.16E-09
TA	T	0.42	0.3592884	0.06027943	9.11E-09
G	T	0.1	0.4561795	0.07659359	8.16E-09
G	A	0.02	1.182083	0.1889235	1.60E-09
A	T	0.04	0.7480971	0.124023	5.54E-09
C	T	0.01	1.201673	0.2004454	6.63E-09
C	G	0.4	0.265745	0.04258913	1.77E-09
A	T	0.04	0.6867065	0.1118944	3.08E-09
T	G	0.05	0.4468865	0.07236906	2.48E-09
A	ACACACACACATG	0.01	0.8761028	0.1360086	5.71E-10
A	G	0.14	0.2569884	0.0430646	8.08E-09
G	C	0.14	0.2569884	0.0430646	8.08E-09
G	A	0.02	-1.022609	0.1684199	4.35E-09
G	A	0.03	0.7640868	0.1202349	9.71E-10
AC	A	0.47	-0.1623957	0.02701485	6.07E-09
A	G	0.02	0.6582393	0.1096206	6.31E-09
T	C	0.01	0.8330924	0.1382301	6.13E-09
C	T	0.02	0.7550528	0.167944	9.79E-06
A	G	0.02	0.7550528	0.167944	9.79E-06
G	A	0.02	0.7550528	0.167944	9.79E-06
C	T	0.02	0.7550528	0.167944	9.79E-06
C	T	0.02	0.7550528	0.167944	9.79E-06
TA	T	0.06	-0.4689946	0.1035001	8.38E-06
G	A	0.01	1.320001	0.2617498	8.03E-07
G	T	0.02	0.8779254	0.1801093	1.77E-06
T	TA	0.05	0.5411022	0.117284	5.82E-06
A	G	0.49	-0.2361134	0.05188431	7.69E-06
G	C	0.47	-0.2385844	0.05148613	5.31E-06
G	A	0.48	-0.2416674	0.05225847	5.54E-06
T	C	0.35	-0.2516165	0.05403683	4.80E-06
C	A	0.5	0.2424773	0.05254923	5.80E-06
C	T	0.5	0.2542854	0.05248638	2.04E-06
T	C	0.02	0.8055478	0.1771513	7.81E-06
G	T	0.03	0.6816464	0.1491864	7.09E-06
G	GGT	0.03	0.755863	0.1643388	6.20E-06
A	T	0.01	1.117116	0.2438062	6.70E-06
G	GA	0.01	1.110783	0.2424349	6.70E-06
TAGATAGATAGATAG	T	0.09	0.4243863	0.0923906	6.37E-06
TGTC A	T	0.14	-0.3265532	0.07270543	9.98E-06
C	G	0.02	1.00825	0.2083983	2.10E-06
T	C	0.02	-1.016397	0.2166627	4.11E-06
TTC	T	0.39	0.2490131	0.05477957	7.86E-06
CTG	C	0.14	0.4000355	0.08051528	1.14E-06
G	T	0.35	-0.2385547	0.05140149	5.15E-06
T	C	0.41	-0.2392555	0.05249702	7.46E-06
T	C	0.41	-0.2531328	0.05257632	2.34E-06

T	A	0.2	-0.3075328	0.06429972	2.71E-06
TTAAA	T	0.11	-0.3893715	0.08357033	4.74E-06
T	G	0.15	0.3409377	0.07447583	6.82E-06
C	T	0.01	0.9949964	0.2105973	3.53E-06
G	A	0.01	0.9949964	0.2105973	3.53E-06
GGTGTGT	G	0.01	0.9949964	0.2105973	3.53E-06
G	A	0.01	1.185061	0.2478408	2.72E-06
TAA	T	0.31	-0.2565732	0.05681194	8.95E-06
G	A	0.1	0.4056622	0.08649256	4.13E-06
G	GAT	0.41	-0.2331164	0.05075958	6.39E-06
C	G	0.36	0.2465409	0.05461299	9.03E-06
T	C	0.03	0.7246896	0.161048	9.62E-06
G	A	0.03	0.7246896	0.161048	9.62E-06
G	A	0.08	0.4699514	0.1016397	5.56E-06
A	G	0.08	0.4699514	0.1016397	5.56E-06
T	C	0.13	0.3619293	0.07958872	7.80E-06
T	C	0.22	0.2899759	0.06318074	6.47E-06
A	G	0.01	1.170371	0.2512071	4.75E-06
C	T	0.15	0.3683162	0.07445739	1.27E-06
C	T	0.02	1.00642	0.2106061	2.76E-06
A	ATGTGTGTG	0.09	0.4337909	0.09192806	3.63E-06
G	C	0.1	0.3701832	0.05952419	2.38E-09
C	T	0.1	0.3658131	0.05919674	2.94E-09
C	T	0.01	-1.112743	0.1765832	1.25E-09
G	C	0.01	-1.112743	0.1765832	1.25E-09
T	C	0.01	-0.9765417	0.1641623	8.53E-09
T	C	0.01	-0.9765417	0.1641623	8.53E-09
G	A	0.01	-0.9765417	0.1641623	8.53E-09
A	C	0.01	-0.9765417	0.1641623	8.53E-09
A	G	0.01	-0.9765417	0.1641623	8.53E-09
GC	G	0.02	0.809763	0.1360678	9.15E-09
C	A	0.02	0.7576785	0.1232951	3.25E-09
C	T	0.02	0.8079789	0.1344974	6.80E-09
G	A	0.02	0.8079789	0.1344974	6.80E-09
GGTGTGT	G	0.02	0.8079789	0.1344974	6.80E-09
A	C	0.01	-0.4531152	0.1003649	9.00E-06
C	CA	0.02	-0.352074	0.06944974	7.06E-07
CT	C	0.01	-0.4506486	0.09952297	8.49E-06
G	A	0.01	-0.4964882	0.1023547	1.98E-06
T	TG	0.02	-0.3402918	0.07398708	6.19E-06
C	T	0.01	-0.5320258	0.107152	1.16E-06
G	A	0.01	-0.4841127	0.1038384	4.68E-06
C	A	0.06	-0.2172037	0.04620989	3.94E-06
A	G	0.09	-0.1644992	0.03613643	7.63E-06
T	A	0.06	-0.2132495	0.04590081	5.03E-06
C	T	0.05	-0.2386708	0.04960223	2.37E-06
A	G	0.04	-0.2379401	0.05284617	9.50E-06
A	G	0.01	-0.6225505	0.1049405	8.87E-09
T	C	0.01	-0.6225505	0.1049405	8.87E-09
A	G	0.01	-0.6225505	0.1049405	8.87E-09

G	GAT	0.02	-0.380795	0.08258794	5.89E-06
C	A	0.1	-0.1660285	0.03667007	8.51E-06
T	C	0.02	-0.4430996	0.0868814	6.10E-07
C	G	0.01	-0.4643004	0.1000742	5.18E-06
C	T	0.04	-0.2788854	0.05435815	5.27E-07
C	T	0.04	-0.2788854	0.05435815	5.27E-07
G	A	0.09	-0.1716356	0.03808717	9.34E-06
T	C	0.01	-0.4923685	0.1036163	3.12E-06
A	G	0.01	-0.4923685	0.1036163	3.12E-06
C	G	0.01	-0.4923685	0.1036163	3.12E-06
C	CAT	0.01	-0.4923685	0.1036163	3.12E-06
C	T	0.01	-0.4923685	0.1036163	3.12E-06
A	G	0.01	-0.5441798	0.1069452	6.45E-07
CA	C	0.01	-0.5441798	0.1069452	6.45E-07
C	T	0.02	-0.3789403	0.07675359	1.32E-06
G	A	0.02	-0.3187609	0.06741454	3.47E-06
C	T	0.02	-0.3789403	0.07675359	1.32E-06
T	C	0.02	-0.3187609	0.06741454	3.47E-06
TCTTA	T	0.01	-0.5890289	0.09722777	4.50E-09
A	G	0.01	-0.5230488	0.09767653	1.75E-07
T	G	0.43	-0.1042926	0.02202935	3.38E-06
G	T	0.44	-0.1072679	0.02191387	1.61E-06
C	G	0.43	-0.099376	0.02199874	8.90E-06
T	C	0.49	0.1002614	0.02176575	6.00E-06
C	G	0.41	-0.1028555	0.02236991	6.23E-06
T	C	0.05	-0.2307594	0.04835304	2.84E-06
G	A	0.05	-0.2307594	0.04835304	2.84E-06
C	A	0.05	-0.2367241	0.04861848	1.82E-06
T	C	0.07	-0.2261658	0.04086534	7.10E-08
CTG	C	0.05	-0.2367182	0.0506532	4.45E-06
CGTGTGT	C	0.01	-0.4202339	0.08608433	1.71E-06
T	G	0.04	-0.2785105	0.05811884	2.59E-06
T	G	0.21	-0.1135708	0.02508092	8.49E-06
A	AGGAGGGAAGGAAC	0.01	-0.3927832	0.08364542	4.02E-06
T	A	0.02	-0.3865911	0.08433263	6.63E-06
G	A	0.15	-0.1278507	0.02794352	6.89E-06
C	T	0.15	-0.135826	0.02776789	1.64E-06
A	G	0.48	0.1074998	0.020918	5.05E-07
G	A	0.02	-0.4450386	0.08662984	5.10E-07
C	A	0.02	-0.3921916	0.08334347	3.84E-06
C	G	0.02	-0.4173722	0.08488859	1.46E-06
T	G	0.02	-0.4173722	0.08488859	1.46E-06
G	A	0.02	-0.4173722	0.08488859	1.46E-06
T	C	0.02	-0.4450386	0.08662984	5.10E-07
T	C	0.02	-0.4462119	0.08666122	4.82E-07
G	A	0.04	-0.2543323	0.05368993	3.33E-06
C	T	0.02	-0.4938207	0.08671576	3.11E-08
G	A	0.01	-0.4768834	0.1021751	4.57E-06
G	GAAA	0.01	-0.4756527	0.1055203	9.28E-06
C	T	0.2	0.1225226	0.02725927	9.83E-06

A	AACACACAC	0.02	-0.3136629	0.06970021	9.59E-06
T	C	0.16	-0.1324961	0.0292264	8.29E-06
T	A	0.2	-0.1175873	0.02577954	7.33E-06
G	A	0.2	-0.122929	0.02575449	2.83E-06
C	CT	0.16	-0.1321787	0.02907877	7.86E-06
T	G	0.2	-0.1191452	0.02577743	5.60E-06
T	C	0.2	-0.1247763	0.02574802	2.02E-06
G	A	0.2	-0.1247763	0.02574802	2.02E-06
T	G	0.2	-0.1191587	0.02578107	5.60E-06
A	G	0.2	-0.1222445	0.02589079	3.58E-06
T	A	0.2	-0.1247763	0.02574802	2.02E-06
G	A	0.2	-0.1247763	0.02574802	2.02E-06
T	C	0.2	-0.1195415	0.02577598	5.22E-06
T	G	0.21	-0.1256188	0.02538	1.25E-06
C	T	0.27	-0.1066938	0.02365911	9.21E-06
C	T	0.29	-0.1055168	0.02320531	7.81E-06
C	CAA	0.03	-0.2880418	0.06160358	4.40E-06
G	A	0.01	-0.4614297	0.09312654	1.22E-06
A	T	0.01	-0.4614297	0.09312654	1.22E-06
C	G	0.01	-0.4306686	0.09094279	3.36E-06
C	T	0.01	-0.4306686	0.09094279	3.36E-06
G	C	0.01	-0.4306686	0.09094279	3.36E-06
T	A	0.01	-0.4306686	0.09094279	3.36E-06
G	T	0.01	-0.4306686	0.09094279	3.36E-06
C	G	0.01	-0.4306686	0.09094279	3.36E-06
A	G	0.01	-0.4306686	0.09094279	3.36E-06
G	T	0.01	-0.4306686	0.09094279	3.36E-06
G	A	0.01	-0.4855829	0.1060127	6.74E-06
G	A	0.1	-0.1596759	0.03460878	5.81E-06
A	AGTGTGTGT	0.06	-0.2009557	0.04395139	6.99E-06
G	GT	0.01	-0.5500539	0.1022916	1.57E-07
G	ICGCACACACACACAC	0.02	-0.4033338	0.07897513	5.90E-07
CT	C	0.05	-0.240037	0.0509993	3.83E-06
T	C	0.04	-0.2504371	0.05522442	8.24E-06
G	A	0.07	-0.207824	0.04154985	9.75E-07
A	G	0.07	-0.208972	0.04203186	1.12E-06
A	AT	0.07	-0.2062956	0.04242451	1.87E-06
C	T	0.07	-0.208972	0.04203186	1.12E-06
T	C	0.07	-0.208972	0.04203186	1.12E-06
T	C	0.07	-0.208972	0.04203186	1.12E-06
T	C	0.07	-0.208972	0.04203186	1.12E-06
G	GCA	0.04	-0.266909	0.05814268	6.44E-06
T	C	0.01	-0.4776256	0.102628	4.85E-06
CA	C	0.01	-0.4725935	0.1048416	9.28E-06
G	C	0.02	-0.3383457	0.07370254	6.44E-06
A	AT	0.02	-0.4364144	0.08766695	1.09E-06
A	G	0.02	-0.3248036	0.06995004	5.09E-06
C	T	0.02	-0.3819575	0.08484014	9.51E-06
A	G	0.01	-0.4780807	0.103608	5.79E-06
C	G	0.01	-0.5309408	0.106982	1.17E-06

T	G	0.34	-0.1046735	0.02290584	7.06E-06
ATTGTTTTGT	A	0.3	-0.1073607	0.02319624	5.44E-06
C	T	0.33	-0.1080796	0.02291202	3.65E-06
T	C	0.34	-0.1044655	0.02302689	8.17E-06
G	A	0.01	-0.5195963	0.0997387	3.59E-07
C	A	0.01	-0.4866395	0.1063185	6.83E-06
C	T	0.01	-0.5181136	0.1020162	6.76E-07
T	C	0.01	-0.5181136	0.1020162	6.76E-07
G	A	0.01	-0.4960293	0.1056098	4.00E-06
C	T	0.01	-0.5181136	0.1020162	6.76E-07
C	T	0.01	-0.4766912	0.09987528	2.83E-06
G	A	0.07	-0.1898071	0.04210878	9.29E-06
T	C	0.07	-0.1903932	0.04130189	5.91E-06
G	A	0.07	-0.187749	0.04119636	7.46E-06
T	C	0.07	-0.2061884	0.04101813	8.66E-07
G	A	0.07	-0.2061884	0.04101813	8.66E-07
C	T	0.07	-0.2061884	0.04101813	8.66E-07
A	G	0.07	-0.2061884	0.04101813	8.66E-07
A	T	0.08	-0.1981862	0.04064738	1.76E-06
T	A	0.08	-0.1761887	0.03772211	4.50E-06
A	G	0.08	-0.1761887	0.03772211	4.50E-06
A	G	0.1	-0.1935218	0.03451457	4.89E-08
C	G	0.07	-0.2190877	0.04061291	1.44E-07
T	C	0.1	-0.1725252	0.03492019	1.30E-06
G	A	0.08	-0.1949404	0.03976212	1.55E-06
T	C	0.08	-0.1949404	0.03976212	1.55E-06
T	A	0.08	-0.1949404	0.03976212	1.55E-06
G	A	0.04	-0.2341494	0.05178359	8.73E-06
TA	T	0.02	-0.3882976	0.08360032	5.06E-06
G	T	0.21	-0.1334974	0.0256868	3.81E-07
C	T	0.2	-0.129467	0.02608869	1.17E-06
G	A	0.2	-0.1328471	0.02601563	5.92E-07
C	A	0.2	-0.1304989	0.02609986	9.83E-07
G	A	0.2	-0.134949	0.02605952	4.18E-07
G	A	0.19	-0.1416587	0.02665847	2.15E-07
C	T	0.2	-0.1360615	0.02594567	3.03E-07
CCAAA	C	0.02	-0.361469	0.06983674	4.23E-07
G	A	0.03	-0.3547047	0.06631147	1.80E-07
A	G	0.01	-0.4829507	0.1028852	4.05E-06
AGAGGAGGAG	A	0.12	-0.1583031	0.03364203	3.85E-06
G	A	0.01	-0.4818714	0.1068882	9.26E-06
T	C	0.11	-0.1513736	0.03231514	4.23E-06
G	A	0.01	-0.4951917	0.1079102	6.49E-06
C	A	0.01	-0.4724166	0.1040672	8.07E-06
C	T	0.01	-0.4710792	0.1043514	9.02E-06
C	T	0.01	-0.5074622	0.1068739	3.17E-06
G	GTTATTTATTTAT	0.01	-0.4198155	0.08935131	3.97E-06
T	A	0.01	-0.4807434	0.1045556	6.23E-06
T	C	0.33	0.09771587	0.02115871	5.69E-06
C	G	0.01	-0.478223	0.1030332	5.13E-06

T	C	0.08	-0.1753366	0.03883578	9.00E-06
A	G	0.22	-0.1207488	0.026238	6.12E-06
A	G	0.22	-0.1238323	0.02634504	3.94E-06
TATTC	T	0.23	-0.1156836	0.0256247	9.01E-06
T	TTCC	0.01	-0.4824682	0.102025	3.46E-06
A	AC	0.19	-0.1381923	0.02749425	8.68E-07
G	A	0.3	0.1101411	0.0236439	4.76E-06
C	G	0.3	0.1133236	0.02362901	2.55E-06
T	G	0.3	0.1142449	0.02363121	2.13E-06
A	C	0.3	0.1171429	0.02360249	1.17E-06
G	A	0.3	0.1133808	0.02368721	2.66E-06
C	T	0.3	0.1173333	0.02364072	1.17E-06
T	C	0.3	0.112902	0.02352172	2.50E-06
A	T	0.15	0.1677644	0.03697546	8.16E-06
C	G	0.14	0.176632	0.03816755	5.46E-06
A	C	0.02	-0.4611159	0.08942558	4.65E-07
A	G	0.49	-0.1172988	0.02584652	8.12E-06
A	C	0.49	-0.1202888	0.02589674	5.05E-06
A	G	0.49	-0.1171342	0.02593771	8.95E-06
C	T	0.49	-0.116589	0.02593084	9.76E-06
ATGTTTT	A	0.02	0.3799096	0.08434338	9.42E-06
T	TCACA	0.1	0.2092892	0.04334695	2.20E-06
T	C	0.11	-0.1774587	0.0392078	8.56E-06
T	C	0.04	-0.3087697	0.06649845	5.09E-06
A	G	0.47	0.1102328	0.0230605	2.74E-06
A	G	0.02	0.3839084	0.08261405	5.01E-06
C	T	0.24	0.1341225	0.0297516	9.27E-06
G	T	0.34	0.1257376	0.02623075	2.58E-06
C	T	0.16	0.1550821	0.03377386	6.41E-06
C	T	0.02	-0.3987378	0.08791696	8.22E-06
C	CA	0.09	0.2010072	0.04429384	8.12E-06
G	A	0.25	-0.1322835	0.02874756	6.13E-06
T	G	0.49	0.1200924	0.02562766	4.20E-06
G	A	0.4	-0.1275226	0.02599639	1.53E-06
T	C	0.41	-0.1304062	0.02600779	9.20E-07
CATTT	C	0.4	-0.1329454	0.02594947	5.46E-07
A	G	0.38	-0.1240778	0.02565156	2.11E-06
TG	T	0.39	-0.1223967	0.02602814	3.90E-06
A	G	0.4	-0.1247357	0.02605938	2.66E-06
G	A	0.4	-0.1282648	0.02599111	1.34E-06
T	C	0.41	-0.1196342	0.02591917	5.76E-06
T	C	0.4	-0.1286346	0.02599111	1.25E-06
A	G	0.4	-0.1224765	0.02609998	4.08E-06
CAT	C	0.03	-0.3294619	0.07271984	8.40E-06
TCTATTCTATTCTATT	C	0.02	-0.4677687	0.1003734	4.72E-06
C	T	0.08	-0.2178392	0.04746606	6.47E-06
G	A	0.02	-0.3852002	0.08492705	8.21E-06
C	T	0.01	-0.563688	0.1241508	8.04E-06
G	A	0.05	-0.2734387	0.05809135	3.82E-06
C	A	0.07	-0.2234958	0.04895624	7.21E-06

G	A	0.3	0.1267274	0.02779703	7.41E-06
A	G	0.31	0.128795	0.02783014	5.45E-06
CCTTT	C	0.43	0.1243799	0.02654184	4.20E-06
C	A	0.43	0.1270191	0.02647987	2.54E-06
C	T	0.02	-0.4845607	0.1027625	3.68E-06
G	C	0.3	-0.1136371	0.02505091	8.19E-06
TCA	T	0.11	-0.2101546	0.04389221	2.64E-06
A	G	0.08	-0.2254996	0.04832239	4.59E-06
C	T	0.07	0.2350369	0.05091565	5.75E-06
G	T	0.13	-0.174024	0.03792598	6.50E-06
T	C	0.17	0.1799873	0.03533525	6.29E-07
C	T	0.17	0.1587474	0.0350635	8.51E-06
A	G	0.45	0.1172053	0.02591805	8.71E-06
A	G	0.47	0.1175134	0.02610094	9.51E-06
C	T	0.1	0.2033722	0.04475975	7.93E-06
G	A	0.1	0.2033722	0.04475975	7.93E-06
C	T	0.28	-0.1321256	0.02892444	7.12E-06
T	C	0.24	-0.1419084	0.03139096	8.77E-06
A	C	0.3	-0.1292671	0.02866228	9.19E-06
T	C	0.3	-0.1312782	0.02864608	6.67E-06
T	A	0.3	-0.1292671	0.02866228	9.19E-06
GC	G	0.3	-0.1292671	0.02866228	9.19E-06
T	C	0.3	-0.1292671	0.02866228	9.19E-06
G	A	0.3	-0.1292671	0.02866228	9.19E-06
T	C	0.32	-0.1281	0.02782303	6.06E-06
C	T	0.32	-0.1297674	0.02780149	4.56E-06
A	G	0.32	-0.1281	0.02782303	6.06E-06
A	G	0.32	-0.1281	0.02782303	6.06E-06
A	G	0.49	0.1321653	0.02725585	1.99E-06
T	C	0.49	0.1314179	0.02716171	2.09E-06
A	G	0.29	0.1356433	0.02809458	2.20E-06
C	T	0.11	-0.1843337	0.04097062	9.64E-06
G	A	0.15	-0.1890848	0.0356381	2.24E-07
C	T	0.12	-0.1854731	0.04022364	5.88E-06
A	G	0.15	-0.1850688	0.03593881	4.81E-07
C	G	0.16	-0.1820245	0.03586105	6.85E-07
C	T	0.11	-0.1819301	0.04030676	9.04E-06
GA	G	0.11	-0.1867446	0.04101109	7.59E-06
C	T	0.15	-0.1808312	0.0359667	8.62E-07
T	G	0.15	-0.169218	0.03667502	5.80E-06
A	G	0.12	-0.1808787	0.04017315	9.50E-06
A	G	0.15	-0.177635	0.03620411	1.53E-06
C	CT	0.15	-0.1721581	0.03658104	3.83E-06
C	T	0.12	-0.1808787	0.04017315	9.50E-06
C	T	0.15	-0.1781221	0.03595478	1.22E-06
T	A	0.12	-0.1808787	0.04017315	9.50E-06
A	C	0.15	-0.1720416	0.03631284	3.32E-06
T	TC	0.15	-0.1758682	0.03627043	2.00E-06
C	T	0.14	-0.1803346	0.03856436	4.39E-06
C	T	0.15	-0.1793011	0.03666677	1.65E-06

G	C	0.14	-0.1807689	0.03825805	3.52E-06
G	T	0.14	-0.1803346	0.03856436	4.39E-06
A	G	0.14	-0.1838159	0.03849722	2.81E-06
T	C	0.15	-0.1832238	0.03617878	7.24E-07
A	T	0.15	-0.18071	0.036387	1.15E-06
T	TC	0.15	-0.1769246	0.03699516	2.71E-06
T	C	0.14	-0.1854666	0.03858251	2.42E-06
T	C	0.15	-0.1835103	0.03634714	7.80E-07
G	C	0.14	-0.1781693	0.03718263	2.60E-06
C	T	0.15	-0.1788696	0.03674683	1.83E-06
G	A	0.15	-0.182464	0.0366073	1.06E-06
C	T	0.15	-0.1835103	0.03634714	7.80E-07
G	A	0.13	-0.1724831	0.03832617	9.58E-06
G	A	0.15	-0.1793011	0.03666677	1.65E-06
T	C	0.15	-0.1793011	0.03666677	1.65E-06
T	C	0.15	-0.182464	0.0366073	1.06E-06
T	C	0.15	-0.182464	0.0366073	1.06E-06
G	C	0.13	-0.1752343	0.03834623	7.06E-06
G	T	0.15	-0.182464	0.0366073	1.06E-06
A	C	0.15	-0.1793011	0.03666677	1.65E-06
G	T	0.13	-0.1729765	0.03802047	7.72E-06
C	T	0.15	-0.182464	0.0366073	1.06E-06
C	T	0.13	-0.1729765	0.03802047	7.72E-06
G	A	0.13	-0.1729765	0.03802047	7.72E-06
T	C	0.15	-0.1870646	0.03723421	8.77E-07
T	C	0.13	-0.1754346	0.03834255	6.89E-06
C	T	0.13	-0.1729765	0.03802047	7.72E-06
T	G	0.15	-0.1835103	0.03634714	7.80E-07
T	C	0.15	-0.1806558	0.03664636	1.37E-06
A	C	0.13	-0.1824388	0.0387302	3.76E-06
C	T	0.15	-0.182464	0.0366073	1.06E-06
A	G	0.12	-0.1925879	0.04094164	3.87E-06
A	G	0.15	-0.1835103	0.03634714	7.80E-07
A	G	0.13	-0.1724831	0.03832617	9.58E-06
G	A	0.15	-0.1832238	0.03617878	7.24E-07
G	C	0.13	-0.1724831	0.03832617	9.58E-06
C	A	0.13	-0.1729765	0.03802047	7.72E-06
T	C	0.13	-0.1729765	0.03802047	7.72E-06
A	G	0.15	-0.1793011	0.03666677	1.65E-06
T	C	0.13	-0.1767044	0.03884027	7.72E-06
C	T	0.13	-0.1731059	0.0384228	9.38E-06
A	C	0.15	-0.1839797	0.03651295	8.18E-07
G	A	0.15	-0.1839797	0.03651295	8.18E-07
A	G	0.15	-0.1808292	0.03657184	1.28E-06
G	A	0.13	-0.1741877	0.0382211	7.46E-06
T	C	0.15	-0.1839797	0.03651295	8.18E-07
G	A	0.15	-0.1839797	0.03651295	8.18E-07
G	A	0.15	-0.1808292	0.03657184	1.28E-06
G	A	0.15	-0.1808292	0.03657184	1.28E-06
C	T	0.15	-0.1839797	0.03651295	8.18E-07

A	G	0.15	-0.1831503	0.03651726	9.14E-07
G	A	0.15	-0.1850061	0.03625491	6.02E-07
C	T	0.15	-0.1878124	0.0362589	4.15E-07
G	A	0.16	-0.1846922	0.03608628	5.59E-07
A	C	0.12	-0.1802326	0.03950269	7.29E-06
A	G	0.12	-0.1869369	0.03969459	3.78E-06
C	T	0.15	-0.1816444	0.0366458	1.21E-06
A	G	0.15	-0.1862863	0.03645792	5.83E-07
G	C	0.15	-0.1808292	0.03657184	1.28E-06
T	C	0.16	-0.1849796	0.03612941	5.54E-07
A	G	0.13	-0.1765541	0.03814343	5.43E-06
CT	C	0.13	-0.1790727	0.03960866	8.76E-06
A	T	0.14	-0.1702951	0.03783365	9.55E-06
A	C	0.14	-0.1807163	0.03834158	3.71E-06
G	A	0.15	-0.1808292	0.03657184	1.28E-06
A	G	0.13	-0.183248	0.03859831	3.18E-06
G	C	0.15	-0.1876483	0.03655356	5.19E-07
C	T	0.16	-0.1795828	0.03623763	1.21E-06
A	G	0.16	-0.1837277	0.03593094	5.72E-07
T	C	0.16	-0.179093	0.03649133	1.52E-06
C	CAG	0.16	-0.1804177	0.03649726	1.28E-06
G	C	0.13	-0.1719398	0.03828239	9.97E-06
G	GT	0.16	-0.1804177	0.03649726	1.28E-06
T	C	0.16	-0.1795828	0.03623763	1.21E-06
G	A	0.16	-0.1795828	0.03623763	1.21E-06
G	C	0.14	-0.1711019	0.03806925	9.84E-06
A	G	0.15	-0.1839797	0.03651295	8.18E-07
A	G	0.16	-0.1826909	0.03618121	7.78E-07
A	G	0.16	-0.1795828	0.03623763	1.21E-06
T	C	0.14	-0.1722675	0.03776762	7.33E-06
T	C	0.14	-0.1781952	0.03822513	4.69E-06
A	G	0.15	-0.1730542	0.03698812	4.34E-06
C	T	0.14	-0.2038255	0.03712994	8.91E-08
T	C	0.16	-0.1795828	0.03623763	1.21E-06
T	C	0.14	-0.1711019	0.03806925	9.84E-06
C	G	0.16	-0.1826909	0.03618121	7.78E-07
A	G	0.16	-0.1832919	0.03617824	7.17E-07
A	T	0.15	-0.1816089	0.03614338	8.75E-07
C	A	0.16	-0.1846922	0.03608628	5.59E-07
A	G	0.13	-0.1746449	0.03791677	6.01E-06
C	A	0.13	-0.1746449	0.03791677	6.01E-06
T	C	0.16	-0.1846922	0.03608628	5.59E-07
A	G	0.16	-0.1846922	0.03608628	5.59E-07
G	C	0.16	-0.1846922	0.03608628	5.59E-07
C	T	0.15	-0.1816089	0.03614338	8.75E-07
A	G	0.13	-0.1767104	0.03857586	6.72E-06
C	G	0.15	-0.1816089	0.03614338	8.75E-07
C	T	0.15	-0.1816089	0.03614338	8.75E-07
T	C	0.14	-0.1716179	0.03697296	5.13E-06
A	G	0.16	-0.1846922	0.03608628	5.59E-07

T	C	0.15	-0.1816089	0.03614338	8.75E-07
T	A	0.15	-0.1816089	0.03614338	8.75E-07
C	T	0.18	-0.149783	0.03306351	8.41E-06
C	T	0.13	-0.1711802	0.03780233	8.48E-06
G	A	0.15	-0.1816089	0.03614338	8.75E-07
C	T	0.13	-0.1739592	0.03802633	6.91E-06
T	C	0.16	-0.1856913	0.03583687	4.11E-07
G	A	0.13	-0.1760315	0.0378066	4.81E-06
C	T	0.13	-0.1744182	0.03772671	5.57E-06
A	G	0.13	-0.1733802	0.03748004	5.50E-06
T	A	0.13	-0.1711701	0.03789014	8.89E-06
C	G	0.13	-0.1711802	0.03780233	8.48E-06
C	T	0.14	-0.1755124	0.03743186	4.15E-06
A	C	0.15	-0.1816089	0.03614338	8.75E-07
T	A	0.13	-0.1711802	0.03780233	8.48E-06
G	T	0.03	0.3297954	0.07203592	6.80E-06
G	T	0.39	0.1187838	0.02632941	9.13E-06
A	G	0.37	-0.1285904	0.02720922	3.51E-06
G	A	0.04	0.3258381	0.06416463	6.78E-07
T	G	0.04	0.3413102	0.06745533	7.40E-07
A	T	0.04	0.3070863	0.0649596	3.48E-06
A	C	0.35	-0.1230528	0.02692216	7.03E-06
A	C	0.36	-0.1225166	0.02709483	8.73E-06
G	A	0.48	-0.1249991	0.02706732	5.70E-06
T	C	0.47	0.1212756	0.02694234	9.55E-06
C	T	0.36	-0.1268064	0.02642959	2.52E-06
A	T	0.02	0.3844763	0.0844756	7.66E-06
A	AT	0.43	0.1178779	0.02607787	8.79E-06
T	TTG	0.09	-0.2176201	0.04730561	6.17E-06
G	T	0.08	0.2160386	0.04808943	9.92E-06
G	A	0.12	0.1958755	0.04088421	2.61E-06
A	T	0.12	0.1916629	0.04082556	4.04E-06
C	A	0.12	0.1921223	0.04120658	4.67E-06
T	G	0.13	0.1847621	0.03961846	4.65E-06
G	A	0.13	0.1847621	0.03961846	4.65E-06
G	A	0.13	0.1847621	0.03961846	4.65E-06
A	G	0.12	0.1851508	0.04073043	7.85E-06
C	T	0.12	0.1851508	0.04073043	7.85E-06
G	A	0.13	0.1847621	0.03961846	4.65E-06
C	G	0.13	0.1847621	0.03961846	4.65E-06
G	A	0.12	0.1851508	0.04073043	7.85E-06
C	T	0.13	0.180816	0.0398922	8.32E-06
G	A	0.12	0.18646	0.0408824	7.35E-06
A	G	0.13	0.1859456	0.03975274	4.36E-06
C	T	0.13	0.180816	0.0398922	8.32E-06
T	C	0.13	0.1810928	0.03970295	7.34E-06
T	G	0.27	-0.1444354	0.02990425	2.18E-06
AT	A	0.38	0.1136985	0.02504018	8.03E-06
G	A	0.16	0.3403797	0.07306199	4.75E-06
A	G	0.08	0.472484	0.09675933	1.70E-06

C	G	0.04	-0.6170825	0.1327811	5.00E-06
T	G	0.01	1.203682	0.2298703	3.15E-07
CT	C	0.02	0.9295385	0.2023955	6.38E-06
G	A	0.48	0.2329522	0.05107353	7.34E-06
T	C	0.24	0.2809813	0.06039999	4.90E-06
A	C	0.27	0.2833368	0.05933039	2.80E-06
A	G	0.24	0.2843159	0.06113526	4.93E-06
T	A	0.24	0.2841551	0.06113242	4.98E-06
T	C	0.24	0.2838515	0.0613088	5.41E-06
T	C	0.24	0.2841551	0.06113242	4.98E-06
C	A	0.24	0.2841551	0.06113242	4.98E-06
A	C	0.49	0.2296639	0.05018047	6.85E-06
ACAGC	A	0.24	0.2940266	0.06122149	2.47E-06
T	C	0.24	0.2769823	0.06116964	8.49E-06
T	TA	0.48	0.2327464	0.05139747	8.48E-06
A	C	0.24	0.2841551	0.06113242	4.98E-06
T	C	0.24	0.2956167	0.06146761	2.40E-06
T	C	0.24	0.2936872	0.06125452	2.56E-06
G	A	0.24	0.2841551	0.06113242	4.98E-06
G	C	0.23	0.2926426	0.06152415	3.05E-06
A	C	0.48	0.2326433	0.05134703	8.39E-06
G	A	0.24	0.289556	0.06126195	3.50E-06
GCAAA	G	0.24	0.288936	0.06109921	3.46E-06
T	C	0.24	0.2843159	0.06113526	4.93E-06
T	G	0.24	0.2850835	0.06113	4.65E-06
C	T	0.23	0.2810586	0.0615357	7.14E-06
C	T	0.24	0.2773903	0.06134134	8.72E-06
T	C	0.46	0.2465807	0.05236202	3.78E-06
C	G	0.04	-0.6515335	0.1444861	9.22E-06
T	TAAA	0.03	0.6715784	0.1493558	9.75E-06
GAC	G	0.01	-1.296163	0.2700616	2.51E-06
A	G	0.23	-0.2787941	0.06166551	8.75E-06
A	T	0.08	0.4186955	0.09285684	9.23E-06
T	C	0.08	0.4246754	0.09295441	7.10E-06
AT	A	0.08	0.4246754	0.09295441	7.10E-06
C	A	0.08	0.4246754	0.09295441	7.10E-06
A	G	0.08	0.4246754	0.09295441	7.10E-06
C	G	0.08	0.4246754	0.09295441	7.10E-06
C	CT	0.08	0.4246754	0.09295441	7.10E-06
C	T	0.08	0.4246754	0.09295441	7.10E-06
G	A	0.08	0.4326292	0.09322108	5.15E-06
T	C	0.08	0.4326292	0.09322108	5.15E-06
G	T	0.08	0.4326292	0.09322108	5.15E-06
G	A	0.08	0.4326292	0.09322108	5.15E-06
T	C	0.08	0.4326292	0.09322108	5.15E-06
C	T	0.08	0.4326292	0.09322108	5.15E-06
C	A	0.08	0.4361219	0.0939158	5.08E-06
G	T	0.08	0.4358758	0.09289281	4.08E-06
A	T	0.08	0.4358758	0.09289281	4.08E-06
C	T	0.08	0.4405175	0.0934769	3.73E-06

G	T	0.08	0.4358758	0.09289281	4.08E-06
A	T	0.08	0.4358758	0.09289281	4.08E-06
T	G	0.09	0.4379355	0.09124142	2.50E-06
C	A	0.08	0.4289149	0.0916245	4.29E-06
T	A	0.08	0.4289149	0.0916245	4.29E-06
C	G	0.08	0.4289149	0.0916245	4.29E-06
A	T	0.08	0.4315576	0.09186345	3.98E-06
C	T	0.08	0.423995	0.09162827	5.47E-06
C	T	0.08	0.42958	0.09215927	4.70E-06
T	C	0.07	0.4387993	0.09641987	7.68E-06
T	C	0.07	0.4387993	0.09641987	7.68E-06
C	G	0.07	0.4387993	0.09641987	7.68E-06
A	T	0.07	0.4482391	0.0987251	8.05E-06
ATTGT	A	0.07	0.4482391	0.0987251	8.05E-06
G	A	0.07	0.4404495	0.09733518	8.60E-06
G	A	0.07	0.4404495	0.09733518	8.60E-06
G	A	0.28	0.2884106	0.05819704	1.21E-06
C	G	0.23	0.2939846	0.06430122	6.99E-06
T	C	0.03	0.6091333	0.1289894	3.56E-06
G	A	0.24	0.2810505	0.0580068	2.03E-06
C	T	0.24	0.269756	0.05806756	5.04E-06
C	T	0.24	0.269756	0.05806756	5.04E-06
G	T	0.23	0.2849833	0.0595461	2.67E-06
G	A	0.23	0.2879765	0.05953684	2.11E-06
C	T	0.23	0.2879765	0.05953684	2.11E-06
A	C	0.24	0.2786961	0.05955725	4.33E-06
G	C	0.23	0.2957632	0.05961344	1.18E-06
CA	C	0.23	0.2785705	0.05966225	4.53E-06
T	C	0.23	0.2918666	0.05953624	1.56E-06
C	A	0.23	0.2900273	0.05956074	1.81E-06
A	T	0.23	0.2883349	0.05955681	2.07E-06
TTTA	T	0.15	0.3555777	0.07909583	9.79E-06
A	G	0.33	-0.2540796	0.05507267	5.81E-06
T	C	0.33	-0.2546403	0.0551274	5.67E-06
C	CTTT	0.06	-0.5259783	0.1025698	5.33E-07
A	C	0.18	-0.3119175	0.06731875	5.32E-06
A	G	0.18	-0.3119175	0.06731875	5.32E-06
G	A	0.18	-0.3054593	0.06732103	8.15E-06
T	G	0.18	-0.3119175	0.06731875	5.32E-06
A	C	0.18	-0.3082402	0.06726556	6.68E-06
A	T	0.18	-0.3103181	0.06719364	5.69E-06
G	A	0.18	-0.3082402	0.06726556	6.68E-06
G	C	0.18	-0.3082402	0.06726556	6.68E-06
T	G	0.18	-0.3082402	0.06726556	6.68E-06
T	TA	0.25	0.2832202	0.06059753	4.44E-06
GT	G	0.43	0.2419013	0.05350488	8.75E-06
C	T	0.25	0.2807071	0.06058029	5.32E-06
A	G	0.43	0.2436223	0.0535003	7.58E-06
T	TC	0.02	0.9229804	0.2032307	8.00E-06
G	T	0.02	0.9453278	0.1923274	1.47E-06

A	G	0.02	0.9269677	0.1871623	1.23E-06
C	A	0.04	0.6658782	0.1338908	1.12E-06
AT	A	0.38	0.2514718	0.05397313	4.74E-06
A	G	0.29	-0.2671201	0.05937466	9.65E-06
A	T	0.45	0.2371003	0.0524217	8.68E-06
A	T	0.01	-1.031817	0.2227395	5.34E-06
C	T	0.02	-1.030899	0.1841577	5.13E-08
CA	C	0.02	-0.8686585	0.1745727	1.10E-06
C	T	0.07	-0.4812007	0.1067723	9.32E-06
G	T	0.03	-0.7319305	0.1593866	6.39E-06
C	A	0.02	0.8779921	0.1837154	2.75E-06
G	T	0.41	-0.2522981	0.05384904	4.21E-06
A	G	0.14	-0.3625673	0.08027812	8.94E-06
GATA	G	0.02	0.8838527	0.1766543	9.68E-07
C	T	0.02	0.8050431	0.1773519	8.08E-06
G	A	0.01	1.177394	0.2545729	5.53E-06
A	G	0.01	1.181056	0.2548228	5.29E-06
ATGACGGCACTAGAC	T	0.01	1.181056	0.2548228	5.29E-06
C	T	0.01	1.181056	0.2548228	5.29E-06
C	T	0.01	1.181056	0.2548228	5.29E-06
T	G	0.01	1.187346	0.2453246	2.08E-06
G	A	0.01	1.181056	0.2548228	5.29E-06
G	A	0.02	1.063921	0.2200335	2.12E-06
C	T	0.01	1.039947	0.2261379	6.21E-06
C	T	0.02	0.9130365	0.1956685	4.59E-06
C	A	0.03	-0.7517716	0.157619	2.87E-06
T	C	0.12	0.3865783	0.08305879	4.85E-06
G	T	0.12	0.3885197	0.08409953	5.66E-06
T	A	0.38	-0.2528534	0.05283396	2.67E-06
A	G	0.01	-1.09848	0.2233768	1.45E-06
GT	G	0.01	-1.102411	0.2326834	3.32E-06
T	C	0.04	-0.7127944	0.1455451	1.59E-06
T	C	0.03	-0.7277414	0.1547616	3.90E-06
C	T	0.03	-0.7504177	0.1579135	3.11E-06
A	G	0.03	-0.7651013	0.1563388	1.62E-06
G	A	0.03	-0.7277414	0.1547616	3.90E-06
C	T	0.03	-0.7277414	0.1547616	3.90E-06
G	C	0.03	-0.7277414	0.1547616	3.90E-06
A	G	0.05	-0.5814736	0.1204354	2.20E-06
A	G	0.04	-0.5819836	0.1266029	6.26E-06
TA	T	0.05	-0.5803843	0.1180078	1.45E-06
T	G	0.05	-0.5367619	0.1164714	5.95E-06
A	G	0.17	0.3279648	0.06884595	2.95E-06
A	C	0.17	0.3279648	0.06884595	2.95E-06
G	T	0.14	0.3607392	0.07365343	1.59E-06
TTGTG	T	0.15	0.358448	0.07503535	2.78E-06
A	T	0.08	0.2654379	0.04481431	9.39E-09
G	T	0.08	0.2696728	0.04484941	5.80E-09
A	T	0.08	0.2696728	0.04484941	5.80E-09
C	T	0.08	0.2800726	0.04506234	1.92E-09

G	T	0.08	0.2696728	0.04484941	5.80E-09
A	T	0.08	0.2696728	0.04484941	5.80E-09
T	G	0.09	0.2643748	0.04408835	6.33E-09
C	A	0.08	0.2623101	0.0442649	9.24E-09
T	A	0.08	0.2623101	0.0442649	9.24E-09
C	G	0.08	0.2623101	0.0442649	9.24E-09
A	T	0.08	0.263171	0.04438256	9.06E-09
C	T	0.08	0.2671528	0.04448863	6.05E-09
GGTGTGTGTGTGT	G	0.01	-1.263247	0.1989695	9.08E-10
G	A	0.28	0.1678892	0.02634446	7.98E-10
C	T	0.08	0.3604334	0.05909747	3.62E-09
T	G	0.08	0.3528145	0.05774389	3.41E-09
C	A	0.08	0.3481582	0.05798549	6.06E-09
T	A	0.08	0.3481582	0.05798549	6.06E-09
C	G	0.08	0.3481582	0.05798549	6.06E-09
A	T	0.08	0.3591482	0.05805771	2.25E-09
C	T	0.08	0.3506537	0.05795182	4.71E-09
C	T	0.08	0.3655013	0.05818621	1.33E-09
A	G	0.02	-0.8622187	0.1427688	5.10E-09
A	G	0.02	-0.8622187	0.1427688	5.10E-09
A	G	0.02	-0.8622187	0.1427688	5.10E-09
G	A	0.02	-0.8075778	0.134937	6.83E-09
G	C	0.02	-0.8075778	0.134937	6.83E-09
G	GGA	0.01	-0.9017902	0.14864	4.62E-09
C	A	0.02	-0.5212088	0.08784425	9.40E-09
T	G	0.01	-0.8495015	0.1339638	9.63E-10
G	T	0.01	-0.8495015	0.1339638	9.63E-10
GA	G	0.01	-0.8495015	0.1339638	9.63E-10
T	C	0.01	-0.8495015	0.1339638	9.63E-10
A	G	0.01	-0.5471574	0.09134368	6.51E-09
G	T	0.05	0.5450634	0.09064932	5.80E-09
C	A	0.06	0.5279812	0.08762247	5.42E-09
G	T	0.06	0.5279812	0.08762247	5.42E-09
G	A	0.26	0.2410287	0.04014576	6.67E-09
G	C	0.46	0.260271	0.05517005	3.80E-06
C	T	0.03	-0.7960797	0.1698636	4.36E-06
C	T	0.03	-0.7960797	0.1698636	4.36E-06
C	T	0.09	-0.4628254	0.09876735	4.38E-06
C	G	0.08	-0.4752422	0.1005683	3.66E-06
G	C	0.37	0.285104	0.05666147	8.93E-07
G	T	0.06	-0.5110815	0.1129734	8.96E-06
A	T	0.01	-1.007623	0.2209934	7.66E-06
T	C	0.1	-0.4953299	0.09183631	1.55E-07
T	TA	0.03	-0.7656425	0.1556715	1.52E-06
G	A	0.3	0.2664984	0.05914425	9.69E-06
CAGAGAGAG	C	0.01	-1.195509	0.2427192	1.47E-06
C	T	0.02	-1.035889	0.2282387	8.40E-06
G	A	0.03	-0.6256203	0.1377681	8.31E-06
G	A	0.03	-0.6688916	0.146116	7.07E-06
A	AGAAAGAAAGAAAG/	0.01	-1.065984	0.2342087	7.94E-06

T	C	0.13	-0.3874882	0.08450957	6.85E-06
T	C	0.13	-0.3874882	0.08450957	6.85E-06
G	A	0.13	-0.3921998	0.08352989	4.20E-06
G	A	0.13	-0.386836	0.08470033	7.41E-06
G	C	0.13	-0.3767448	0.07960017	3.54E-06
G	A	0.13	-0.3906987	0.08368435	4.73E-06
A	T	0.01	-1.195565	0.238096	9.38E-07
AT	A	0.01	-1.261002	0.2610565	2.28E-06
A	G	0.49	-0.2592017	0.05581603	5.28E-06
G	A	0.26	-0.314865	0.06410582	1.57E-06
T	C	0.14	-0.3797052	0.08408626	9.28E-06
C	G	0.24	0.2957684	0.06532868	8.82E-06
C	T	0.14	-0.3758542	0.0810403	5.42E-06
G	A	0.06	-0.5243612	0.114824	7.43E-06
C	G	0.06	-0.522048	0.1141029	7.15E-06
G	A	0.06	-0.522048	0.1141029	7.15E-06
C	T	0.05	-0.5681714	0.1221062	5.07E-06
C	T	0.05	-0.5681714	0.1221062	5.07E-06
A	T	0.06	-0.5406788	0.1183792	7.41E-06
C	T	0.06	-0.5702558	0.1200111	3.26E-06
G	C	0.22	-0.3006987	0.06669282	9.57E-06
A	G	0.23	0.3119781	0.06858829	8.04E-06
G	GAAACAAACAAAC	0.24	0.2973729	0.06429714	5.74E-06
GAAACAAAC	G	0.23	0.3112713	0.06839178	7.95E-06
T	C	0.23	0.3119781	0.06858829	8.04E-06
T	A	0.23	0.3083583	0.06826543	9.23E-06
G	A	0.23	0.3119781	0.06858829	8.04E-06
A	G	0.23	0.3229855	0.06805287	3.34E-06
T	G	0.23	0.3119781	0.06858829	8.04E-06
G	A	0.23	0.3119781	0.06858829	8.04E-06
G	A	0.03	-0.9189879	0.1755437	3.38E-07
G	TTAAATTAAGTGGTTA	0.02	-0.9936775	0.2177006	7.50E-06
G	T	0.41	0.2575491	0.05619902	6.92E-06
A	G	0.01	-1.115484	0.2393044	4.88E-06
G	T	0.34	0.2635735	0.05769219	7.36E-06
TCACACA	T	0.02	-0.9871247	0.1970261	9.89E-07
C	T	0.02	-1.050717	0.2158859	1.92E-06
CAG	C	0.1	0.4464937	0.09675342	6.01E-06
A	T	0.03	-0.8902996	0.1828168	1.90E-06
C	G	0.02	0.967247	0.199535	2.10E-06
TACAC	T	0.19	-0.3560881	0.07459028	2.94E-06
TCACACACACACA	T	0.01	-1.208184	0.2506344	2.38E-06
T	TGGA	0.02	0.990451	0.210633	4.07E-06
C	CAG	0.01	-1.226485	0.265644	5.95E-06
G	A	0.01	-1.091743	0.230833	3.60E-06
C	T	0.03	-0.4230234	0.07097035	8.50E-09
G	A	0.02	-0.6967784	0.1171325	9.10E-09
G	A	0.02	-0.6758606	0.1123853	6.44E-09
T	G	0.01	0.7734951	0.1299365	9.01E-09
T	TCA	0.03	-0.5483304	0.09149309	7.16E-09

T	C	0.1	-0.2165402	0.03458133	1.68E-09
C	T	0.1	-0.2644908	0.04330564	5.08E-09
A	T	0.1	-0.2683715	0.04304572	2.61E-09
G	A	0.09	-0.2634718	0.04342473	6.26E-09
ATCTG	A	0.01	-0.7191606	0.1175291	3.65E-09
T	C	0.02	-0.5712151	0.09166662	1.98E-09
G	C	0.01	-1.008165	0.1648552	3.92E-09
C	T	0.02	-0.8933684	0.1417906	1.44E-09
G	A	0.02	-1.009866	0.1578728	1.03E-09
A	G	0.03	-0.8922662	0.1395569	1.05E-09
A	T	0.03	-0.8922662	0.1395569	1.05E-09
CAG	C	0.01	1.251109	0.2567736	1.79E-06
A	C	0.02	-1.04015	0.2195554	3.33E-06
C	T	0.01	-1.057554	0.2244029	3.73E-06
G	A	0.01	-1.057554	0.2244029	3.73E-06
G	T	0.01	-1.057554	0.2244029	3.73E-06
C	G	0.01	-1.057554	0.2244029	3.73E-06
C	T	0.03	0.6911659	0.1479079	4.46E-06
C	T	0.48	0.244205	0.05419994	9.38E-06
T	C	0.29	0.2675099	0.05886877	7.92E-06
G	A	0.01	1.335523	0.2571473	3.89E-07
T	TTCCATTCCATTCCAT	0.02	0.7968093	0.1763755	8.90E-06
CT	C	0.46	-0.247992	0.05309656	4.51E-06
G	A	0.49	-0.2487889	0.05276011	3.68E-06
C	T	0.03	0.7632091	0.1658044	6.10E-06
T	C	0.01	1.086573	0.2380916	7.27E-06
C	T	0.02	0.8230206	0.1793078	6.47E-06
C	T	0.02	0.8366305	0.1830627	7.06E-06
G	A	0.09	0.4473767	0.09610431	4.84E-06
C	T	0.19	-0.3442803	0.06381102	1.44E-07
T	TTTTTC	0.18	-0.3075935	0.06784244	8.28E-06
A	G	0.19	-0.3354964	0.0633614	2.37E-07
C	T	0.19	-0.3474354	0.06411637	1.28E-07
G	A	0.17	-0.3437642	0.06640715	4.22E-07
A	C	0.19	-0.3439417	0.06416224	1.71E-07
A	G	0.19	-0.3439417	0.06416224	1.71E-07
G	A	0.2	-0.3354377	0.06336229	2.38E-07
T	G	0.2	-0.3354377	0.06336229	2.38E-07
T	C	0.2	-0.3205928	0.06361753	8.17E-07
G	A	0.2	-0.3362571	0.06370003	2.56E-07
TCAAA	T	0.2	-0.3412773	0.0636992	1.73E-07
G	A	0.2	-0.3354377	0.06336229	2.38E-07
AT	A	0.1	-0.4151226	0.09032911	6.31E-06
G	A	0.01	-1.170803	0.2479379	3.57E-06
A	ATG	0.02	0.798941	0.174264	6.62E-06
C	T	0.01	1.192362	0.2410465	1.27E-06
G	A	0.01	1.192362	0.2410465	1.27E-06
A	G	0.01	1.192362	0.2410465	1.27E-06
G	C	0.01	1.192362	0.2410465	1.27E-06
C	T	0.01	1.212989	0.248666	1.75E-06

A	G	0.01	1.192362	0.2410465	1.27E-06
G	C	0.01	1.192362	0.2410465	1.27E-06
G	A	0.01	1.192362	0.2410465	1.27E-06
ACT	A	0.01	1.192362	0.2410465	1.27E-06
A	G	0.01	1.192362	0.2410465	1.27E-06
T	C	0.01	1.192362	0.2410465	1.27E-06
C	T	0.01	1.192362	0.2410465	1.27E-06
G	A	0.01	1.192362	0.2410465	1.27E-06
T	C	0.01	1.192362	0.2410465	1.27E-06
C	A	0.01	1.192362	0.2410465	1.27E-06
C	A	0.01	1.192362	0.2410465	1.27E-06
G	T	0.01	1.192362	0.2410465	1.27E-06
C	T	0.01	1.192362	0.2410465	1.27E-06
C	T	0.01	1.192362	0.2410465	1.27E-06
GA	G	0.01	1.192362	0.2410465	1.27E-06
C	T	0.13	0.3565898	0.07911355	9.31E-06
T	C	0.13	0.3565898	0.07911355	9.31E-06
G	A	0.02	-0.8634364	0.189508	7.51E-06
C	A	0.03	-0.7521543	0.165592	7.99E-06
A	G	0.02	-0.8034177	0.1669834	2.38E-06
G	A	0.12	-0.3740401	0.08260404	8.50E-06
G	T	0.07	0.4901363	0.1085045	8.92E-06
C	T	0.07	0.4901363	0.1085045	8.92E-06
C	T	0.07	0.5012885	0.1072792	4.47E-06
G	A	0.07	0.5012885	0.1072792	4.47E-06
CTA	C	0.1	-0.4107809	0.08993823	7.15E-06
TC	T	0.1	-0.4107809	0.08993823	7.15E-06
T	TA	0.1	-0.4107809	0.08993823	7.15E-06
CATTT	C	0.1	-0.4090955	0.09025441	8.33E-06
T	C	0.03	0.7616142	0.1674204	7.75E-06
A	ACCC	0.29	0.259174	0.05614763	5.76E-06
C	T	0.01	-1.102024	0.2425096	7.92E-06
A	C	0.02	0.8942068	0.1952723	6.78E-06
AAATAAATAAATAAA	A	0.18	0.2994064	0.06256499	2.68E-06
T	C	0.01	1.126369	0.2315387	1.86E-06
C	G	0.01	1.116009	0.2443162	7.13E-06
C	T	0.01	1.116009	0.2443162	7.13E-06
CATAGATAGATAG	C	0.03	-0.6857137	0.1499009	6.93E-06
C	T	0.01	0.582868	0.09717751	6.28E-09
C	T	0.35	-0.2683806	0.04535224	9.66E-09
GGTGTGTGTGTGT	G	0.01	-0.9593596	0.161459	8.48E-09
G	A	0.04	-0.5817013	0.09538482	3.82E-09
T	TA	0.02	0.4926345	0.08095579	3.92E-09
T	A	0.02	0.808283	0.1364957	9.46E-09
G	A	0.02	0.808283	0.1364957	9.46E-09
C	T	0.02	0.808283	0.1364957	9.46E-09
C	A	0.02	0.808283	0.1364957	9.46E-09
CAA	C	0.02	0.808283	0.1364957	9.46E-09
A	G	0.02	0.808283	0.1364957	9.46E-09
G	A	0.02	0.808283	0.1364957	9.46E-09

C	A	0.02	0.808283	0.1364957	9.46E-09
G	A	0.02	0.808283	0.1364957	9.46E-09
T	C	0.02	0.808283	0.1364957	9.46E-09
G	C	0.02	0.808283	0.1364957	9.46E-09
TG	T	0.02	0.808283	0.1364957	9.46E-09
G	A	0.02	0.808283	0.1364957	9.46E-09
T	TAAAACA	0.02	0.808283	0.1364957	9.46E-09
A	G	0.02	0.808283	0.1364957	9.46E-09
C	T	0.02	0.808283	0.1364957	9.46E-09
T	TAA	0.02	0.808283	0.1364957	9.46E-09
C	T	0.02	0.808283	0.1364957	9.46E-09
A	G	0.02	0.808283	0.1364957	9.46E-09
T	C	0.02	0.808283	0.1364957	9.46E-09
G	T	0.02	0.808283	0.1364957	9.46E-09
C	T	0.39	-0.1749083	0.02835296	2.86E-09
G	A	0.39	-0.1740739	0.0283898	3.50E-09
G	T	0.39	-0.1729214	0.02838098	4.31E-09
C	T	0.4	-0.1775705	0.02812948	1.31E-09
G	A	0.14	0.3509949	0.07585171	5.49E-06
G	A	0.36	0.2546821	0.05453376	4.53E-06
G	A	0.38	0.2464404	0.05406083	7.45E-06
G	A	0.37	0.2452571	0.05368177	7.12E-06
G	A	0.36	0.2578387	0.05362253	2.42E-06
G	A	0.37	0.2606092	0.05382946	2.08E-06
TG	T	0.37	0.2427438	0.05377268	9.05E-06
A	AACAC	0.05	-0.5460969	0.121349	9.63E-06
A	G	0.44	0.2357139	0.05165557	7.30E-06
A	G	0.44	0.2338974	0.05157306	8.26E-06
G	C	0.44	0.2349679	0.05170319	7.93E-06
G	A	0.43	0.2344503	0.05194004	9.07E-06
C	T	0.44	0.2384237	0.05174118	5.98E-06
C	T	0.44	0.2384237	0.05174118	5.98E-06
A	T	0.44	0.2338534	0.05176164	8.91E-06
T	C	0.44	0.2338534	0.05176164	8.91E-06
T	C	0.44	0.2338534	0.05176164	8.91E-06
A	G	0.44	0.2338534	0.05176164	8.91E-06
A	G	0.43	0.242183	0.05204577	4.89E-06
C	T	0.43	0.2385104	0.05206373	6.74E-06
G	A	0.02	0.8621606	0.1866448	5.69E-06
C	T	0.12	0.3552686	0.07873597	9.14E-06
T	TA	0.05	-0.5594322	0.1232166	8.08E-06
T	C	0.04	-0.6353864	0.1388319	6.88E-06
G	A	0.02	1.044118	0.2141085	1.76E-06
A	G	0.02	-0.8011143	0.1766692	8.28E-06
G	A	0.18	-0.3062158	0.06499135	3.76E-06
A	AT	0.02	-0.8444278	0.1857409	7.87E-06
G	GA	0.5	0.2400109	0.05237563	6.70E-06
TTTTC	T	0.27	0.2825568	0.05759733	1.54E-06
G	A	0.04	-0.6738024	0.1388069	1.96E-06
G	A	0.03	-0.8408334	0.1666367	7.95E-07

T	C	0.03	-0.7134958	0.1542718	5.55E-06
T	G	0.09	-0.3775219	0.08283557	7.49E-06
T	G	0.31	-0.249046	0.05405843	6.01E-06
T	TA	0.04	-0.6147932	0.1315776	4.48E-06
A	G	0.04	0.7254439	0.1441605	8.49E-07
G	A	0.02	0.8180027	0.1773371	5.86E-06
G	A	0.01	1.067146	0.2375222	9.94E-06
A	G	0.02	-0.8613548	0.1731355	1.11E-06
A	AAC	0.03	0.7000056	0.1516687	5.79E-06
GA	G	0.26	-0.321816	0.06801272	3.43E-06
C	A	0.03	-0.7213094	0.1550926	4.94E-06
G	A	0.03	-0.7279389	0.150905	2.25E-06
C	T	0.04	-0.7078093	0.1457173	1.93E-06
T	C	0.03	-0.8344525	0.170435	1.61E-06
G	A	0.02	-0.83026	0.1743717	3.00E-06
C	T	0.02	-0.8724897	0.1740288	9.28E-07
C	T	0.02	-0.8298956	0.1811914	6.77E-06
A	G	0.02	-0.7967976	0.1708122	4.64E-06
G	C	0.02	-0.8359632	0.1715299	1.79E-06
GA	G	0.03	-0.8245571	0.163929	8.58E-07
G	T	0.02	-0.774024	0.1709043	8.49E-06
G	C	0.02	-0.8952476	0.1693987	2.50E-07
G	A	0.02	-0.9406081	0.1823837	4.66E-07
C	T	0.03	-0.7920813	0.166027	2.87E-06
A	G	0.02	-0.8951017	0.1977123	8.55E-06
G	T	0.02	-0.9267238	0.2031842	7.37E-06
C	T	0.02	-0.8407836	0.1777719	3.46E-06
G	A	0.02	-0.8772754	0.1856739	3.54E-06
G	A	0.02	-0.8362615	0.1816067	6.07E-06
C	T	0.03	-0.7999727	0.1474082	1.23E-07
G	C	0.05	-0.5750702	0.1255485	6.76E-06
A	C	0.05	-0.5750702	0.1255485	6.76E-06
C	A	0.09	-0.4203106	0.09226566	7.55E-06
G	T	0.03	0.6921315	0.1477466	4.25E-06
T	TACACAC	0.04	-0.6516492	0.1341743	1.93E-06
C	T	0.05	0.631251	0.125212	8.12E-07
A	G	0.06	0.5154095	0.1118587	5.99E-06
A	T	0.06	0.5156984	0.1129048	7.16E-06
CATG	C	0.15	-0.3286401	0.07266048	8.71E-06
C	T	0.24	-0.2805583	0.06033859	4.97E-06
C	G	0.27	-0.2759527	0.05836623	3.49E-06
C	T	0.09	-0.418859	0.0915042	6.85E-06
T	TTG	0.06	0.5737808	0.1116657	5.10E-07
G	C	0.13	0.3882465	0.07782816	1.04E-06
C	T	0.13	0.3882465	0.07782816	1.04E-06
T	TACACAC	0.01	-1.089074	0.2392293	7.65E-06
A	G	0.13	-0.3641482	0.07533673	2.15E-06
T	C	0.01	1.064128	0.2304386	5.73E-06
G	A	0.01	1.064128	0.2304386	5.73E-06
C	A	0.01	1.064128	0.2304386	5.73E-06

T	C	0.16	0.3278876	0.07039442	4.79E-06
G	A	0.4	0.2733853	0.05463774	9.72E-07
C	G	0.4	0.2733853	0.05463774	9.72E-07
C	T	0.49	-0.2525515	0.05226658	2.17E-06
C	T	0.49	-0.2442414	0.05211345	4.21E-06
A	C	0.45	0.2736314	0.05266893	3.87E-07
G	A	0.45	0.2742884	0.05267428	3.65E-07
T	C	0.45	0.2695579	0.05265686	5.60E-07
T	C	0.46	0.2753483	0.05237711	2.86E-07
T	C	0.5	0.2374601	0.05205194	7.34E-06
A	G	0.18	-0.304997	0.06713699	7.98E-06
G	C	0.13	-0.3622749	0.07650484	3.38E-06
T	C	0.12	-0.3896191	0.07813329	1.05E-06
T	C	0.18	-0.309853	0.06714619	5.81E-06
C	T	0.18	-0.3052352	0.06714767	7.88E-06
C	T	0.13	-0.3560655	0.07633388	4.65E-06
A	G	0.13	-0.3533459	0.07641978	5.58E-06
C	A	0.13	-0.3526986	0.07662297	6.12E-06
G	A	0.13	-0.3535865	0.07645527	5.55E-06
T	C	0.13	-0.3611553	0.07620377	3.31E-06
C	T	0.13	-0.3621481	0.07680244	3.70E-06
T	C	0.17	-0.3159172	0.06807947	5.18E-06
T	A	0.3	-0.2754372	0.0569141	2.09E-06
C	T	0.01	-1.025037	0.2189542	4.31E-06
T	A	0.02	-0.9348798	0.2057168	7.93E-06
AATC	A	0.07	-0.5191708	0.1082611	2.56E-06
T	G	0.02	0.9414273	0.2081247	8.70E-06
G	A	0.04	-0.6072721	0.1320668	6.25E-06
A	T	0.02	-0.8369989	0.1824071	6.52E-06
AT	A	0.02	-0.7970559	0.176785	9.28E-06
G	GTGTGTGTGTGTGTG	0.03	-0.7180849	0.1531729	4.18E-06
AG	A	0.06	0.6208153	0.115311	1.53E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
A	G	0.06	0.6047622	0.1142404	2.39E-07
G	C	0.06	0.6047622	0.1142404	2.39E-07
A	C	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
C	A	0.06	0.6047622	0.1142404	2.39E-07
A	G	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
A	C	0.06	0.5427309	0.1125748	2.28E-06
C	T	0.06	0.6047622	0.1142404	2.39E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
T	C	0.05	0.5890546	0.1275644	5.73E-06
T	C	0.05	0.6348459	0.1194701	2.17E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
G	C	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
T	A	0.06	0.6047622	0.1142404	2.39E-07
T	C	0.06	0.6047622	0.1142404	2.39E-07

A	G	0.06	0.6047622	0.1142404	2.39E-07
T	G	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
G	C	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
T	C	0.06	0.6043971	0.1147002	2.70E-07
A	C	0.06	0.6047622	0.1142404	2.39E-07
T	C	0.06	0.6047622	0.1142404	2.39E-07
G	A	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
T	A	0.06	0.6047622	0.1142404	2.39E-07
A	T	0.06	0.6154114	0.1153323	1.94E-07
C	T	0.06	0.5974863	0.1153009	4.13E-07
A	T	0.06	0.6047622	0.1142404	2.39E-07
A	C	0.06	0.6047622	0.1142404	2.39E-07
C	A	0.06	0.5993518	0.1155481	4.03E-07
G	C	0.06	0.6047622	0.1142404	2.39E-07
T	C	0.06	0.6047622	0.1142404	2.39E-07
T	G	0.06	0.6047622	0.1142404	2.39E-07
A	G	0.06	0.6050262	0.1146029	2.57E-07
CAT	C	0.06	0.6208153	0.115311	1.53E-07
CT	C	0.06	0.6208153	0.115311	1.53E-07
G	A	0.05	0.6129588	0.1199694	5.87E-07
C	T	0.06	0.623391	0.1145279	1.14E-07
A	T	0.06	0.6079974	0.1146379	2.28E-07
C	T	0.06	0.6047622	0.1142404	2.39E-07
C	T	0.06	0.6245417	0.1173738	2.09E-07
T	C	0.06	0.6065011	0.1159705	3.27E-07
G	A	0.05	0.6112025	0.1220943	9.61E-07
G	A	0.4	0.2384839	0.0392771	4.97E-09
C	G	0.4	0.2384839	0.0392771	4.97E-09
C	T	0.08	-0.2707039	0.04576719	9.93E-09
T	G	0.05	0.2731425	0.05755184	3.20E-06
TTAAA	T	0.22	-0.1411271	0.03132292	9.37E-06
C	T	0.09	0.2282008	0.0456345	9.80E-07
T	A	0.3	-0.1379371	0.0302249	7.26E-06
CCAA	C	0.14	0.1801872	0.03795278	3.18E-06
G	A	0.19	-0.1434848	0.03181056	9.17E-06
G	GTGTTT	0.18	-0.1799351	0.034278	2.96E-07
T	C	0.05	0.2868865	0.0613646	4.41E-06
T	C	0.05	0.2955948	0.06360275	4.99E-06
A	G	0.03	0.3803759	0.08303414	6.72E-06
TCC	T	0.08	0.2304461	0.04818282	2.71E-06
T	C	0.02	0.402347	0.08772412	6.56E-06
T	A	0.39	-0.1091126	0.02363431	5.73E-06
C	T	0.45	-0.1206181	0.0244289	1.32E-06
G	T	0.03	0.3715865	0.08216025	8.69E-06
G	A	0.33	0.1220656	0.02695211	8.46E-06

G	A	0.09	-0.2189561	0.04619432	3.29E-06
C	T	0.06	-0.2689714	0.05463995	1.42E-06
C	T	0.11	-0.2102935	0.04113561	5.75E-07
G	A	0.1	-0.2184119	0.04499403	1.95E-06
T	C	0.12	-0.1777842	0.03771778	3.71E-06
C	A	0.11	-0.2129558	0.04078323	3.38E-07
A	G	0.11	-0.2190377	0.04081936	1.66E-07
T	C	0.11	-0.1942092	0.04177735	4.97E-06
A	G	0.11	-0.1924628	0.0413795	4.91E-06
A	G	0.11	-0.2084596	0.04178637	1.04E-06
T	C	0.1	-0.222884	0.04520961	1.37E-06
A	G	0.09	-0.2277662	0.04849583	4.00E-06
TC	T	0.02	-0.4385981	0.09531075	6.13E-06
G	A	0.02	-0.4385981	0.09531075	6.13E-06
C	T	0.34	0.1284254	0.02843393	8.93E-06
AAAAT	A	0.35	0.1307719	0.02798426	4.45E-06
C	T	0.34	0.1323464	0.02781762	3.03E-06
CTA	C	0.35	0.1300595	0.02805813	5.27E-06
C	T	0.35	0.1347264	0.02787635	2.15E-06
G	A	0.36	0.1252813	0.02777349	9.16E-06
G	A	0.35	0.1311322	0.02776857	3.56E-06
T	C	0.04	0.3071206	0.06823119	9.55E-06
A	G	0.34	0.1240276	0.02658919	4.63E-06
C	G	0.39	0.1290496	0.02696811	2.67E-06
C	T	0.29	0.1321482	0.02837601	4.79E-06
T	G	0.07	0.2535413	0.051135	1.20E-06
A	T	0.06	0.2871288	0.05415761	2.28E-07
T	C	0.07	0.2535413	0.051135	1.20E-06
T	A	0.07	0.2535413	0.051135	1.20E-06
C	G	0.3	0.2319263	0.03864016	6.87E-09
A	G	0.3	0.232466	0.03882183	7.41E-09
T	C	0.3	0.2307249	0.03851913	7.34E-09
G	A	0.31	0.2422304	0.03846052	1.39E-09
G	GT	0.31	0.2319126	0.03869159	7.19E-09
A	G	0.02	-0.9112965	0.1508571	5.40E-09
AC	A	0.02	-0.9112965	0.1508571	5.40E-09
A	C	0.02	-0.9112965	0.1508571	5.40E-09
T	A	0.02	-0.8707515	0.1410143	2.93E-09
G	A	0.05	-0.4877455	0.0779776	1.91E-09
G	GGA	0.01	-1.147454	0.1768445	5.59E-10
T	A	0.02	0.8465498	0.1377072	3.38E-09
GGTGTGTGTGTGT	G	0.01	-1.091475	0.1810298	5.78E-09
C	T	0.02	-0.8913487	0.1459949	4.05E-09
A	T	0.06	-0.4194821	0.06682352	1.49E-09
A	T	0.02	0.6109105	0.1030974	9.34E-09
C	G	0.03	-0.4918602	0.08225401	6.92E-09
C	T	0.02	-0.5076626	0.08576383	9.56E-09
C	T	0.02	-0.6357473	0.1053665	5.16E-09
AT	A	0.06	-0.344469	0.05759047	6.84E-09
C	T	0.01	-0.7533687	0.1072735	2.28E-11

AT	A	0.06	-0.334463	0.05614973	7.83E-09
3AGTCCATCCATTCCA	G	0.07	-0.4280983	0.070345	4.57E-09
GGTGTGTGTGTGT	G	0.01	-1.104365	0.1785462	2.25E-09
A	G	0.02	-0.6626352	0.1098855	5.98E-09
G	GACAC	0.02	-0.8771813	0.1458749	6.06E-09
C	T	0.01	-0.6930074	0.113714	3.76E-09
CTTTCTT	C	0.01	-0.6373514	0.104403	3.56E-09
AAAAT	A	0.01	-0.7117699	0.1161395	3.10E-09
C	T	0.01	-0.7528236	0.1188584	9.95E-10
T	C	0.02	-0.6589803	0.1058563	1.81E-09
A	G	0.18	0.148907	0.03221596	5.60E-06
C	T	0.1	0.2004755	0.04167162	2.38E-06
C	T	0.1	0.189907	0.04180596	7.96E-06
G	GA	0.02	0.4423196	0.09746908	8.12E-06
A	T	0.03	0.3197691	0.0697807	6.68E-06
G	C	0.03	0.3197691	0.0697807	6.68E-06
G	A	0.03	0.3197691	0.0697807	6.68E-06
G	T	0.03	0.3197691	0.0697807	6.68E-06
T	A	0.03	0.3197691	0.0697807	6.68E-06
C	T	0.03	0.3197691	0.0697807	6.68E-06
T	C	0.03	0.3197691	0.0697807	6.68E-06
G	A	0.03	0.3268238	0.07083669	5.81E-06
A	G	0.03	0.3197691	0.0697807	6.68E-06
C	T	0.03	0.3338541	0.07380168	8.66E-06
G	A	0.03	0.3197691	0.0697807	6.68E-06
C	A	0.01	0.4995291	0.1105177	8.80E-06
T	TGCGCGC	0.03	0.3408002	0.0712941	2.74E-06
C	T	0.07	0.2309877	0.05106978	8.68E-06
CTG	C	0.03	0.3664147	0.08091747	8.48E-06
G	A	0.03	0.3844913	0.07960352	2.18E-06
G	T	0.13	-0.1808456	0.03791481	2.87E-06
A	G	0.27	0.1298216	0.02864212	8.32E-06
T	C	0.27	0.1298216	0.02864212	8.32E-06
A	G	0.27	0.1309303	0.02862717	6.94E-06
T	C	0.09	0.2068473	0.04351293	3.09E-06
G	T	0.09	0.2027637	0.04363547	5.01E-06
A	G	0.1	0.1993166	0.04284844	4.90E-06
T	A	0.05	0.2614878	0.056768	6.01E-06
T	G	0.05	0.2614878	0.056768	6.01E-06
C	A	0.43	0.1130379	0.02475995	7.20E-06
G	A	0.14	-0.1672492	0.03722444	9.90E-06
C	CT	0.33	-0.1235153	0.02635991	4.21E-06
C	T	0.34	-0.1272767	0.02708821	3.97E-06
C	T	0.02	0.4614231	0.1003191	6.19E-06
C	G	0.08	-0.2102343	0.04637526	8.30E-06
C	A	0.08	-0.2068308	0.04597822	9.67E-06
G	A	0.08	-0.2102343	0.04637526	8.30E-06
C	T	0.08	-0.2102343	0.04637526	8.30E-06
T	C	0.08	-0.2068308	0.04597822	9.67E-06
G	T	0.08	-0.2068308	0.04597822	9.67E-06

A	G	0.08	-0.2102343	0.04637526	8.30E-06
G	A	0.06	0.2704248	0.05515374	1.55E-06
AGAAGGAAG	A	0.29	-0.1337486	0.02787102	2.51E-06
T	C	0.02	0.4290982	0.08674965	1.27E-06
G	A	0.03	0.3641407	0.07630186	2.84E-06
A	T	0.33	0.125269	0.02733426	6.66E-06
A	TGTGTGTGTGTGTGT	0.02	0.3850148	0.08365437	6.11E-06
T	G	0.11	0.1923143	0.04161791	5.63E-06
A	G	0.11	0.1906358	0.04172299	7.11E-06
G	A	0.11	0.1897619	0.0417257	7.78E-06
A	G	0.09	0.2245061	0.04561524	1.42E-06
G	A	0.11	0.1905869	0.04173462	7.16E-06
C	T	0.11	0.1940003	0.04190098	5.40E-06
A	G	0.11	0.1888942	0.04184079	9.01E-06
A	G	0.11	0.1922024	0.04227488	7.83E-06
G	A	0.11	0.1914355	0.0419643	7.31E-06
G	C	0.11	0.1860942	0.04127998	9.27E-06
ACACACACACACACA	T	0.1	0.2125921	0.04402552	2.19E-06
T	C	0.11	0.1860942	0.04127998	9.27E-06
A	T	0.11	0.1860942	0.04127998	9.27E-06
G	A	0.11	0.1861674	0.04128496	9.22E-06
GACACAC	G	0.11	-0.2004002	0.04348494	5.95E-06
CA	C	0.2	0.158363	0.03504717	8.85E-06
G	A	0.31	0.1254057	0.02737909	6.74E-06
AG	A	0.1	0.2013513	0.04357026	5.62E-06
T	A	0.05	-0.2885135	0.06267845	6.09E-06
C	CTCTCTTTCTT	0.06	-0.2687651	0.05597816	2.49E-06
G	GCACACACA	0.03	0.3337826	0.07400572	9.18E-06
C	T	0.45	0.119909	0.02635224	7.70E-06
C	T	0.14	-0.1692995	0.03687564	6.43E-06
T	C	0.14	-0.1692995	0.03687564	6.43E-06
T	A	0.14	-0.1675702	0.03720733	9.45E-06
T	A	0.14	-0.1692995	0.03687564	6.43E-06
G	A	0.14	-0.1663281	0.0368478	9.03E-06
A	G	0.14	-0.1663281	0.0368478	9.03E-06
C	T	0.13	-0.170003	0.03777252	9.57E-06
CA	C	0.1	-0.2069447	0.04391728	3.73E-06
T	A	0.1	-0.192774	0.04232613	7.56E-06
TA	T	0.11	-0.2025368	0.04176984	2.00E-06
C	T	0.11	-0.1956518	0.04205368	4.89E-06
G	A	0.1	-0.1961738	0.04236431	5.39E-06
C	T	0.1	-0.1961738	0.04236431	5.39E-06
CACAT	C	0.09	-0.2142886	0.04590724	4.56E-06
G	A	0.18	-0.1543715	0.03354696	6.13E-06
C	A	0.11	-0.2019944	0.04159263	1.93E-06
T	C	0.11	-0.1988151	0.04196002	3.32E-06
TA	T	0.1	-0.2077733	0.04254358	1.70E-06
C	A	0.12	-0.1798877	0.03951303	7.62E-06
G	A	0.12	-0.1798877	0.03951303	7.62E-06
A	G	0.12	-0.1834572	0.03954147	5.17E-06

A	G	0.26	0.1359677	0.02952613	6.04E-06
A	C	0.39	-0.1316223	0.02535128	3.91E-07
T	TAA	0.08	0.2140096	0.04529181	3.52E-06
A	G	0.09	0.1914449	0.04152109	5.89E-06
C	T	0.07	0.2223792	0.04934773	9.34E-06
G	A	0.07	0.2305235	0.04863708	3.29E-06
G	A	0.06	0.2354153	0.05150207	7.02E-06
C	A	0.4	0.1192829	0.02596678	6.35E-06
C	T	0.39	0.1324292	0.02701207	1.55E-06
T	C	0.39	0.1229686	0.02703185	7.74E-06
T	G	0.38	0.1271152	0.02702343	3.87E-06
T	A	0.39	0.1222302	0.02694206	8.17E-06
A	G	0.39	0.1315556	0.02712761	1.99E-06
G	A	0.38	0.1288402	0.02705204	2.97E-06
G	A	0.38	0.1266093	0.02710905	4.51E-06
C	T	0.39	0.1323279	0.02695986	1.51E-06
C	T	0.31	0.1338297	0.02876735	4.89E-06
T	C	0.32	0.1234741	0.02749543	1.00E-05
G	T	0.32	0.1237924	0.02753742	9.80E-06
G	T	0.32	0.1246159	0.02763347	9.21E-06
G	A	0.32	0.1246035	0.02770757	9.72E-06
A	G	0.32	0.1263154	0.02763402	7.02E-06
G	C	0.32	0.1254656	0.02762711	8.01E-06
C	T	0.33	0.1287912	0.02683506	2.51E-06
CCTT	C	0.32	0.1254064	0.02741617	6.93E-06
C	T	0.06	-0.2602582	0.05517989	3.66E-06
T	TGATA	0.31	-0.1463068	0.03015829	1.97E-06
G	C	0.28	-0.1393762	0.03004869	5.20E-06
T	C	0.23	-0.1442844	0.03064145	3.79E-06
A	C	0.44	0.1205282	0.02540711	3.23E-06
G	T	0.44	0.1195006	0.02545927	4.06E-06
G	A	0.44	0.1195006	0.02545927	4.06E-06
T	C	0.43	0.1161279	0.02548898	7.51E-06
C	T	0.01	-0.5376713	0.1094312	1.48E-06
C	T	0.04	-0.3030053	0.06415932	3.56E-06
A	G	0.06	-0.2662415	0.05471865	1.85E-06
A	T	0.13	-0.1762866	0.03853272	6.90E-06
C	CAA	0.15	-0.1617617	0.03554565	7.68E-06
G	A	0.28	0.1292578	0.0284302	7.83E-06
G	A	0.31	0.1299565	0.02755252	3.66E-06
G	T	0.3	0.126879	0.02789272	7.75E-06
A	C	0.3	0.127407	0.02782531	6.79E-06
T	TA	0.03	0.6811543	0.1457329	4.44E-06
G	A	0.24	0.28728	0.06063859	3.33E-06
A	G	0.23	0.2919305	0.06102794	2.70E-06
T	TACAC	0.03	-0.732927	0.1543409	3.16E-06
T	C	0.47	0.2490163	0.05260717	3.39E-06
C	T	0.01	-1.118854	0.2270845	1.39E-06
C	T	0.03	-0.7318917	0.1623924	9.32E-06
A	G	0.02	-0.9671379	0.2141417	8.95E-06

A	G	0.01	-0.9919049	0.2202175	9.43E-06
T	TTTTCTTC	0.01	-1.183926	0.2591837	7.13E-06
G	C	0.15	-0.3404704	0.07472586	7.50E-06
T	TCCTTCCTTCCTTCCTT	0.02	-0.9150523	0.1988175	6.11E-06
C	T	0.02	-0.9435028	0.2053062	6.30E-06
TA	T	0.13	-0.3501915	0.07669715	7.19E-06
G	GA	0.14	0.3528123	0.07800282	8.69E-06
T	C	0.04	0.612405	0.1350655	8.27E-06
G	A	0.01	-1.152744	0.2447195	3.77E-06
A	T	0.49	-0.241889	0.05363229	9.19E-06
T	C	0.01	-1.241273	0.2492104	1.08E-06
A	T	0.01	-1.241273	0.2492104	1.08E-06
C	T	0.01	-1.241273	0.2492104	1.08E-06
G	A	0.02	-0.7746585	0.1674566	5.50E-06
C	T	0.02	-0.7490768	0.16532	8.39E-06
T	C	0.02	-0.7867247	0.1732386	8.02E-06
A	G	0.02	-0.7734379	0.1706775	8.37E-06
G	A	0.02	-0.7776915	0.1705765	7.41E-06
C	T	0.03	-0.7864819	0.1557883	7.82E-07
T	C	0.03	-0.7864819	0.1557883	7.82E-07
A	T	0.03	-0.7864819	0.1557883	7.82E-07
C	T	0.03	-0.7864819	0.1557883	7.82E-07
C	A	0.03	-0.7864819	0.1557883	7.82E-07
T	A	0.03	-0.7864819	0.1557883	7.82E-07
T	TAC	0.03	-0.7335349	0.1537145	2.84E-06
C	T	0.03	-0.7864819	0.1557883	7.82E-07
T	G	0.03	-0.7864819	0.1557883	7.82E-07
C	T	0.03	-0.7864819	0.1557883	7.82E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
A	AGG	0.03	-0.8043695	0.157645	6.04E-07
A	T	0.03	-0.7653149	0.1577521	1.97E-06
C	T	0.03	-0.7864819	0.1557883	7.82E-07
G	C	0.03	-0.7864819	0.1557883	7.82E-07
C	T	0.03	-0.7864819	0.1557883	7.82E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
T	G	0.03	-0.7864819	0.1557883	7.82E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
G	T	0.03	-0.7970823	0.1597518	1.03E-06
C	G	0.03	-0.7864819	0.1557883	7.82E-07
A	G	0.03	-0.7864819	0.1557883	7.82E-07
T	G	0.03	-0.7864819	0.1557883	7.82E-07
T	C	0.03	-0.7864819	0.1557883	7.82E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
T	TAC	0.03	-0.8043695	0.157645	6.04E-07
C	T	0.03	-0.7835756	0.1575165	1.11E-06
C	G	0.03	-0.7453788	0.1612416	5.59E-06
A	G	0.03	-0.8743562	0.1583639	7.61E-08
G	A	0.03	-0.7864819	0.1557883	7.82E-07
G	T	0.03	-0.7864819	0.1557883	7.82E-07

C	T	0.03	-0.7864819	0.1557883	7.82E-07
C	G	0.03	-0.7206891	0.1538788	4.25E-06
G	A	0.03	-0.7864819	0.1557883	7.82E-07
C	T	0.03	-0.7917562	0.157233	8.32E-07
G	A	0.03	-0.7864819	0.1557883	7.82E-07
C	A	0.03	-0.7215814	0.1585238	7.65E-06
G	C	0.03	-0.7215814	0.1585238	7.65E-06
CAA	C	0.03	-0.7384506	0.1604917	6.15E-06
T	C	0.03	-0.7215814	0.1585238	7.65E-06
TGTG	T	0.03	-0.8583633	0.1660535	4.38E-07
A	G	0.03	-0.8369107	0.1638696	5.90E-07
CG	C	0.03	-0.7384506	0.1604917	6.15E-06
C	T	0.03	-0.8369107	0.1638696	5.90E-07
C	G	0.03	-0.8369107	0.1638696	5.90E-07
C	A	0.03	-0.7215814	0.1585238	7.65E-06
TTG	T	0.03	-0.8583633	0.1660535	4.38E-07
A	AT	0.03	-0.7384506	0.1604917	6.15E-06
G	T	0.03	-0.7215814	0.1585238	7.65E-06
A	G	0.03	-0.7215814	0.1585238	7.65E-06
C	T	0.03	-0.8369107	0.1638696	5.90E-07
G	A	0.03	-0.8574091	0.165716	4.28E-07
A	G	0.03	-0.8399884	0.1655179	6.89E-07
A	G	0.03	-0.8369107	0.1638696	5.90E-07
C	A	0.03	-0.8369107	0.1638696	5.90E-07
A	G	0.03	-0.8369107	0.1638696	5.90E-07
C	T	0.03	-0.8369107	0.1638696	5.90E-07
C	T	0.03	-0.8061923	0.1583258	6.35E-07
T	TGAG	0.03	-0.8583633	0.1660535	4.38E-07
G	C	0.03	-0.8574091	0.165716	4.28E-07
T	C	0.03	-0.822312	0.1562992	2.79E-07
C	T	0.03	-0.822312	0.1562992	2.79E-07
A	G	0.03	-0.8530088	0.1615988	2.56E-07
C	T	0.03	-0.8530088	0.1615988	2.56E-07
T	A	0.03	-0.822312	0.1562992	2.79E-07
A	G	0.03	-0.8530088	0.1615988	2.56E-07
T	C	0.03	-0.801419	0.1641384	1.71E-06
G	A	0.03	-0.822312	0.1562992	2.79E-07
G	C	0.03	-0.8275177	0.158268	3.28E-07
A	C	0.03	-0.822312	0.1562992	2.79E-07
G	A	0.03	-0.7395213	0.1565097	3.52E-06
C	T	0.03	-0.7395213	0.1565097	3.52E-06
T	C	0.03	-0.8530088	0.1615988	2.56E-07
G	A	0.03	-0.7395213	0.1565097	3.52E-06
T	A	0.03	-0.8530088	0.1615988	2.56E-07
C	T	0.03	-0.7395213	0.1565097	3.52E-06
T	C	0.03	-0.7395213	0.1565097	3.52E-06
G	T	0.03	-0.7395213	0.1565097	3.52E-06
C	T	0.03	-0.7395213	0.1565097	3.52E-06
C	T	0.03	-0.8530088	0.1615988	2.56E-07
A	G	0.03	-0.8530088	0.1615988	2.56E-07

C	T	0.03	-0.8967347	0.1675707	1.79E-07
GA	G	0.03	-0.9087091	0.1650691	8.26E-08
C	T	0.03	-0.8530088	0.1615988	2.56E-07
AG	A	0.03	-0.8743363	0.163692	1.88E-07
T	C	0.03	-0.7395213	0.1565097	3.52E-06
T	C	0.03	-0.7395213	0.1565097	3.52E-06
C	T	0.03	-0.7395213	0.1565097	3.52E-06
T	C	0.02	-0.7994264	0.1765409	8.49E-06
TA	T	0.02	-0.7994264	0.1765409	8.49E-06
G	T	0.02	-0.7994264	0.1765409	8.49E-06
C	T	0.02	-0.7897302	0.162333	1.86E-06
G	A	0.02	-0.7994264	0.1765409	8.49E-06
TAAA	T	0.02	-0.7994264	0.1765409	8.49E-06
C	CTTCATTCA	0.22	0.3147404	0.06430472	1.62E-06
T	C	0.02	-0.8145677	0.1810263	9.62E-06
CT	C	0.27	0.2649663	0.05869504	9.03E-06
G	GGACA	0.44	-0.240482	0.05309776	8.46E-06
A	C	0.01	-1.121546	0.2433349	5.94E-06
TGA	T	0.01	-1.119877	0.2455968	7.39E-06
TACACAC	T	0.02	-0.926224	0.1790131	4.27E-07
C	T	0.01	-1.14712	0.2513085	7.23E-06
T	TTCTCTC	0.02	-0.9620269	0.2110761	7.46E-06
C	CTCCG	0.23	0.3056968	0.06777965	9.19E-06
C	T	0.01	-0.9964546	0.2214039	9.58E-06
G	T	0.05	-0.5048491	0.1091674	5.54E-06
C	T	0.01	-0.9819349	0.2033814	2.20E-06
TCA	T	0.03	-0.6588854	0.1420932	5.24E-06
ATC	A	0.03	-0.7374088	0.1640761	9.85E-06
G	A	0.03	-0.7835198	0.1523112	4.94E-07
G	T	0.01	-1.223046	0.2459877	1.12E-06
G	A	0.01	-1.223046	0.2459877	1.12E-06
C	A	0.01	-1.223046	0.2459877	1.12E-06
T	TAC	0.01	-1.113175	0.2447619	7.78E-06
T	G	0.01	-1.222027	0.2607833	4.21E-06
C	CTG	0.08	-0.453752	0.1003973	8.82E-06
G	C	0.14	-0.3542731	0.07740801	6.86E-06
A	G	0.14	-0.3509933	0.07753212	8.53E-06
AT	A	0.01	-1.130982	0.2375482	2.99E-06
G	A	0.01	-1.229083	0.2460896	1.01E-06
T	C	0.01	-1.28464	0.2538262	7.36E-07
CT	C	0.02	-0.9477017	0.2011411	3.75E-06
G	A	0.02	-0.9357225	0.2035944	6.29E-06
G	A	0.01	-1.132584	0.2453289	5.74E-06
C	G	0.06	-0.5376489	0.108	1.09E-06
T	A	0.06	-0.550608	0.1060252	3.89E-07
G	T	0.06	-0.5389873	0.1085808	1.17E-06
C	T	0.03	0.6503866	0.1058439	2.83E-09
A	G	0.02	-0.8548264	0.1357122	1.21E-09
G	A	0.03	-0.718222	0.1203083	7.28E-09
G	C	0.03	-0.718222	0.1203083	7.28E-09

T	C	0.03	-0.6726781	0.1135835	9.38E-09
C	T	0.03	-0.6726781	0.1135835	9.38E-09
A	G	0.03	-0.7121617	0.1173086	4.22E-09
C	T	0.03	-0.7121617	0.1173086	4.22E-09
T	A	0.03	-0.6726781	0.1135835	9.38E-09
A	G	0.03	-0.7121617	0.1173086	4.22E-09
G	A	0.03	-0.6726781	0.1135835	9.38E-09
G	C	0.03	-0.6867411	0.1149465	7.10E-09
A	C	0.03	-0.6726781	0.1135835	9.38E-09
T	C	0.03	-0.7121617	0.1173086	4.22E-09
T	A	0.03	-0.7121617	0.1173086	4.22E-09
C	T	0.03	-0.7121617	0.1173086	4.22E-09
A	G	0.03	-0.7121617	0.1173086	4.22E-09
GA	G	0.03	-0.7395568	0.1199166	2.49E-09
C	T	0.03	-0.7121617	0.1173086	4.22E-09
AG	A	0.03	-0.7269143	0.1188466	3.29E-09
C	G	0.01	0.4734316	0.09837817	2.36E-06
A	G	0.01	0.4317458	0.09556005	8.87E-06
G	C	0.04	0.2306249	0.04957788	4.90E-06
G	A	0.1	0.1635097	0.03564105	6.52E-06
AACAC	A	0.09	0.1896355	0.03944988	2.42E-06
T	C	0.1	0.1618755	0.03562146	7.90E-06
G	T	0.02	0.4094489	0.08103715	7.66E-07
A	G	0.03	0.3209098	0.06862587	4.39E-06
G	A	0.01	0.434964	0.09252556	3.93E-06
C	T	0.03	0.3064311	0.06669272	6.32E-06
A	G	0.03	0.3064311	0.06669272	6.32E-06
T	C	0.03	0.3064311	0.06669272	6.32E-06
G	A	0.03	0.3064311	0.06669272	6.32E-06
A	G	0.03	0.3064311	0.06669272	6.32E-06
T	C	0.03	0.3064311	0.06669272	6.32E-06
A	T	0.03	0.3064311	0.06669272	6.32E-06
G	GC	0.02	0.3294709	0.07185709	6.60E-06
T	TTG	0.04	0.2576408	0.05475372	3.85E-06
A	AG	0.47	0.09910823	0.02119764	4.41E-06
G	A	0.02	0.4047747	0.08927843	8.28E-06
A	C	0.12	0.1554638	0.03366242	5.69E-06
G	C	0.11	0.1578141	0.03504269	9.46E-06
G	A	0.11	0.1578141	0.03504269	9.46E-06
C	A	0.11	0.1578141	0.03504269	9.46E-06
T	TA	0.11	0.1578141	0.03504269	9.46E-06
A	G	0.11	0.1578141	0.03504269	9.46E-06
G	A	0.11	0.1578141	0.03504269	9.46E-06
C	T	0.11	0.1578141	0.03504269	9.46E-06
T	C	0.11	0.1578141	0.03504269	9.46E-06
T	C	0.11	0.1578141	0.03504269	9.46E-06
A	G	0.11	0.1578141	0.03504269	9.46E-06
C	T	0.1	0.1804669	0.03775824	2.75E-06
AG	A	0.11	0.1622971	0.03517001	5.79E-06
T	C	0.11	0.1647269	0.03522313	4.38E-06

C	T	0.09	0.171757	0.0368903	4.81E-06
G	GTA	0.5	-0.0950644	0.02030411	4.28E-06
GGT	G	0.02	0.3334722	0.07392746	9.16E-06
C	G	0.02	0.3554797	0.07382741	2.33E-06
G	A	0.01	0.4324865	0.0885888	1.71E-06
T	A	0.01	0.4481562	0.09343487	2.54E-06
GAAGAAAGA	G	0.01	0.4830808	0.09950193	1.94E-06
G	T	0.03	0.286063	0.05863294	1.74E-06
T	TACACAC	0.02	0.3706288	0.08140002	7.60E-06
A	AT	0.31	-0.1052972	0.02294925	6.51E-06
A	G	0.01	0.4561287	0.1014822	9.83E-06
A	G	0.01	0.4591419	0.1001274	6.58E-06
A	G	0.01	0.4591419	0.1001274	6.58E-06
T	G	0.01	0.4692016	0.09604892	1.69E-06
C	CT	0.01	0.4047912	0.0900663	9.84E-06
T	A	0.02	0.3246794	0.06975664	4.84E-06
T	TA	0.03	0.3066966	0.06294007	1.79E-06
C	T	0.01	0.4951901	0.100453	1.37E-06
C	T	0.01	0.4951648	0.1035214	2.70E-06
G	C	0.03	0.3219612	0.06733798	2.72E-06
T	A	0.02	0.3234139	0.0699484	5.56E-06
T	G	0.03	0.2939928	0.06027473	1.75E-06
A	G	0.02	0.3247928	0.07016298	5.42E-06
G	A	0.01	0.4591277	0.0915285	9.10E-07
C	T	0.02	0.3619733	0.07839047	5.71E-06
TA	T	0.01	0.5176688	0.09690952	1.87E-07
T	G	0.02	0.369648	0.07112521	3.81E-07
C	CT	0.02	0.369648	0.07112521	3.81E-07
A	G	0.01	0.4441992	0.09774705	7.90E-06
G	T	0.01	0.4772956	0.1051243	8.04E-06
A	G	0.01	0.4772956	0.1051243	8.04E-06
G	A	0.01	0.4772956	0.1051243	8.04E-06
A	AGTGTGT	0.01	0.542442	0.08972905	4.83E-09
G	A	0.02	0.3385002	0.07483201	8.66E-06
CGT	C	0.39	-0.0996308	0.02191936	7.87E-06
G	A	0.01	0.4874989	0.1021263	2.82E-06
C	G	0.04	0.2612545	0.05491148	3.03E-06
T	G	0.01	0.4906182	0.1069441	6.53E-06
C	T	0.01	0.4906182	0.1069441	6.53E-06
C	T	0.01	0.4906182	0.1069441	6.53E-06
G	A	0.01	0.4906182	0.1069441	6.53E-06
C	T	0.01	0.4906182	0.1069441	6.53E-06
T	C	0.01	0.5107902	0.1030186	1.20E-06
T	ICACACACACACAC	0.03	0.2695325	0.05694267	3.39E-06
A	G	0.04	0.2325673	0.05177373	9.94E-06
A	ATATATGTGTGTG	0.02	0.3696162	0.06766472	1.02E-07
G	A	0.01	0.3887527	0.08621069	9.22E-06
T	A	0.02	0.3602202	0.07436753	2.04E-06
T	A	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.01	0.3887527	0.08621069	9.22E-06

AT	A	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.01	0.3887527	0.08621069	9.22E-06
C	A	0.02	0.4036034	0.07680031	2.87E-07
A	G	0.01	0.3887527	0.08621069	9.22E-06
G	T	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.01	0.3887527	0.08621069	9.22E-06
TA	T	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.01	0.3887527	0.08621069	9.22E-06
C	T	0.02	0.3063179	0.06784217	8.98E-06
C	T	0.03	0.3068975	0.06635666	5.53E-06
TTCTCTCTC	T	0.03	0.2847021	0.06018582	3.44E-06
G	A	0.14	0.1307846	0.02906669	9.62E-06
G	A	0.04	0.2718951	0.05906951	6.09E-06
C	T	0.04	0.2718951	0.05906951	6.09E-06
A	G	0.04	0.2718951	0.05906951	6.09E-06
C	T	0.04	0.2718951	0.05906951	6.09E-06
T	C	0.04	0.2718951	0.05906951	6.09E-06
C	T	0.04	0.2718951	0.05906951	6.09E-06
A	G	0.04	0.2718951	0.05906951	6.09E-06
C	T	0.04	0.2718951	0.05906951	6.09E-06
T	G	0.04	0.2718951	0.05906951	6.09E-06
T	G	0.04	0.2718951	0.05906951	6.09E-06
G	A	0.04	0.2718951	0.05906951	6.09E-06
C	G	0.04	0.2718951	0.05906951	6.09E-06
G	A	0.03	0.2842459	0.0596056	2.88E-06
T	G	0.03	0.2710591	0.06030922	9.84E-06
G	C	0.02	0.3365351	0.06842722	1.45E-06
G	A	0.03	0.4233854	0.06805995	1.85E-09
CT	C	0.1	0.1494386	0.03307167	8.85E-06
A	ATG	0.1	0.1740324	0.03701564	3.92E-06
G	GGTGTGTGT	0.01	0.4915635	0.1086974	8.71E-06
G	GCACACA	0.01	0.4578178	0.09699568	3.60E-06
CAGTAGCAGGCTTTT,	T	0.02	0.4011538	0.07394091	1.23E-07
G	A	0.01	0.4698007	0.09837903	2.80E-06
G	A	0.22	0.1154076	0.02510634	6.27E-06
T	A	0.01	0.4599372	0.09798112	4.05E-06
TAG	T	0.02	0.3423235	0.07044126	1.90E-06
T	C	0.02	0.4211699	0.09081556	5.22E-06
G	C	0.04	0.267732	0.05815489	6.07E-06
C	T	0.07	0.2037989	0.04281277	3.00E-06
C	G	0.06	0.2317371	0.04438149	3.39E-07
C	T	0.06	0.2317371	0.04438149	3.39E-07
TACAC	T	0.11	0.1671343	0.03647302	6.68E-06
C	A	0.07	0.2110516	0.04285377	1.40E-06
A	G	0.08	0.1863235	0.04057426	6.40E-06
T	C	0.02	0.440767	0.08813282	9.78E-07
C	T	0.02	0.47677	0.0893828	1.94E-07
G	C	0.01	0.4159648	0.09091455	6.89E-06
GC	G	0.01	0.4500412	0.1001693	9.91E-06

C	A	0.02	0.3594056	0.0791365	8.00E-06
G	C	0.1	0.1669161	0.03705616	9.42E-06
G	A	0.02	0.4283034	0.08860403	2.14E-06
C	T	0.33	0.110056	0.02255881	1.74E-06
G	A	0.05	0.2252235	0.05010783	9.82E-06
C	T	0.05	0.2325873	0.05100891	7.38E-06
T	C	0.09	-0.1751982	0.03765561	4.88E-06
C	CCACA	0.07	0.1992756	0.04395244	8.27E-06
T	C	0.04	-0.655024	0.1410622	5.19E-06
C	T	0.04	-0.655024	0.1410622	5.19E-06
A	T	0.04	-0.6525809	0.1402939	5.01E-06
G	C	0.04	-0.659638	0.1405013	4.12E-06
A	G	0.02	-1.096702	0.1975726	6.81E-08
C	G	0.02	-1.096702	0.1975726	6.81E-08
G	A	0.02	-1.096702	0.1975726	6.81E-08
G	A	0.02	-1.096702	0.1975726	6.81E-08
C	T	0.02	-1.096702	0.1975726	6.81E-08
G	A	0.02	-1.096702	0.1975726	6.81E-08
C	G	0.3	-0.2746055	0.06088465	9.35E-06
C	T	0.31	-0.278037	0.06040821	6.23E-06
T	C	0.31	-0.2783799	0.06034722	5.95E-06
G	A	0.3	-0.2844459	0.06067324	4.25E-06
A	G	0.3	-0.2813345	0.06220158	8.85E-06
G	GT	0.31	-0.2755161	0.0610084	9.12E-06
C	CTTT	0.03	-0.6187506	0.134602	6.39E-06
AAACAAC	A	0.01	-1.32157	0.2587347	6.06E-07
A	AATAC	0.24	-0.3221745	0.06692322	2.40E-06
C	CACACACAG	0.06	-0.5164275	0.1138988	8.42E-06
TACACACACACAC	T	0.02	-1.020397	0.2051816	1.15E-06
G	A	0.02	-0.9151133	0.1925365	3.17E-06
A	T	0.02	-0.9151133	0.1925365	3.17E-06
G	GA	0.02	-1.021004	0.2086934	1.67E-06
T	TA	0.14	-0.3442997	0.07239063	3.13E-06
A	G	0.09	0.4518246	0.1002564	9.50E-06
G	A	0.01	-1.091565	0.2325819	4.15E-06
G	A	0.07	-0.4721729	0.1046795	9.33E-06
T	A	0.06	-0.5767539	0.1151436	9.69E-07
G	C	0.06	-0.6050152	0.1145579	2.61E-07
G	A	0.09	-0.4723471	0.09832323	2.51E-06
A	G	0.09	-0.4723471	0.09832323	2.51E-06
C	T	0.09	-0.4723471	0.09832323	2.51E-06
A	C	0.09	-0.4541649	0.09843671	5.93E-06
A	G	0.09	-0.4541649	0.09843671	5.93E-06
C	T	0.09	-0.4541649	0.09843671	5.93E-06
CTCTTTA	C	0.09	-0.4524386	0.09832394	6.26E-06
C	T	0.09	-0.4541649	0.09843671	5.93E-06
C	T	0.45	-0.2512399	0.05517906	7.75E-06
T	C	0.31	-0.2732992	0.05889931	5.27E-06
C	T	0.3	-0.2831618	0.05997542	3.66E-06
C	T	0.31	-0.278437	0.05961609	4.60E-06

C	CACAT	0.31	-0.2854824	0.0601465	3.27E-06
C	A	0.31	-0.2759253	0.05954453	5.42E-06
T	C	0.35	-0.2487063	0.05480788	8.29E-06
T	TA	0.25	-0.2696046	0.05991355	9.78E-06
C	A	0.23	0.3029636	0.06725845	9.59E-06
G	A	0.24	0.3021311	0.064552	4.40E-06
G	C	0.24	0.3065646	0.06507086	3.83E-06
G	T	0.22	0.3027292	0.06724888	9.71E-06
C	T	0.22	0.3201578	0.06741447	3.23E-06
G	A	0.23	0.3029511	0.06720928	9.46E-06
A	T	0.23	0.3029511	0.06720928	9.46E-06
A	T	0.23	0.3035937	0.06698182	8.48E-06
A	G	0.22	0.3083773	0.06697628	6.18E-06
A	AC	0.22	0.3083773	0.06697628	6.18E-06
G	A	0.23	0.2963223	0.06584467	9.76E-06
G	C	0.23	0.3023247	0.06725326	9.98E-06
A	T	0.23	0.3076782	0.06735629	7.26E-06
T	TGTGTGTGTGTGT	0.01	-1.195959	0.2327229	5.22E-07
AG	A	0.02	-0.8323835	0.175185	3.19E-06
A	G	0.05	-0.6503188	0.1325126	1.56E-06
TG	T	0.35	-0.2634272	0.05793459	7.96E-06
T	C	0.01	-1.130282	0.2463492	6.64E-06
C	A	0.06	0.6012372	0.1251301	2.50E-06
C	A	0.02	-1.199937	0.2393472	9.49E-07
A	G	0.38	-0.2628857	0.05768365	7.61E-06
C	G	0.38	-0.2681415	0.05776334	5.23E-06
T	C	0.38	-0.2698333	0.05771914	4.51E-06
T	G	0.38	-0.2671101	0.05794708	6.04E-06
G	A	0.39	-0.2598103	0.0565302	6.41E-06
AT	A	0.4	-0.2519253	0.05556597	8.43E-06
G	A	0.41	-0.2520478	0.0559204	9.47E-06
C	T	0.38	-0.2629696	0.05815643	8.89E-06
T	TGTGTGTGTGTGT	0.01	-0.9890912	0.1571017	1.33E-09
G	A	0.08	-0.352768	0.058944	7.91E-09
A	G	0.08	-0.352768	0.058944	7.91E-09
C	T	0.08	-0.352768	0.058944	7.91E-09
A	C	0.08	-0.3506408	0.05896548	9.67E-09
A	G	0.08	-0.3506408	0.05896548	9.67E-09
C	T	0.08	-0.3506408	0.05896548	9.67E-09
C	T	0.08	-0.3506408	0.05896548	9.67E-09
A	G	0.02	-0.6150513	0.1035121	8.91E-09
C	G	0.02	-0.6150513	0.1035121	8.91E-09
G	A	0.02	-0.6150513	0.1035121	8.91E-09
G	A	0.02	-0.6150513	0.1035121	8.91E-09
C	T	0.02	-0.6150513	0.1035121	8.91E-09
G	A	0.02	-0.6150513	0.1035121	8.91E-09
T	A	0.01	1.148495	0.1894662	4.42E-09
G	A	0.03	0.68074	0.1496724	7.77E-06
A	ACCTTCCTTCCTTCCT	0.02	0.7954089	0.1766978	9.54E-06
AATAAC	A	0.27	-0.2557857	0.05302654	2.24E-06

T	A	0.02	0.9191858	0.2044575	9.79E-06
A	G	0.01	1.046927	0.2327335	9.67E-06
G	A	0.01	1.085061	0.2317071	4.26E-06
A	G	0.01	1.076194	0.2269159	3.25E-06
T	A	0.01	1.157542	0.2309227	9.27E-07
T	A	0.01	1.045207	0.231634	9.10E-06
C	T	0.01	1.076194	0.2269159	3.25E-06
C	T	0.01	1.118107	0.2312157	2.12E-06
C	A	0.01	1.076194	0.2269159	3.25E-06
G	T	0.01	1.076194	0.2269159	3.25E-06
CT	C	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
A	T	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
T	C	0.01	1.076194	0.2269159	3.25E-06
A	AT	0.02	0.9949278	0.2214692	9.93E-06
C	A	0.01	1.076194	0.2269159	3.25E-06
A	G	0.01	1.076194	0.2269159	3.25E-06
T	C	0.01	1.076194	0.2269159	3.25E-06
A	G	0.01	1.076194	0.2269159	3.25E-06
C	A	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
G	T	0.01	1.076194	0.2269159	3.25E-06
A	G	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
T	C	0.01	1.076194	0.2269159	3.25E-06
T	C	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
C	T	0.01	1.076194	0.2269159	3.25E-06
A	G	0.01	1.076194	0.2269159	3.25E-06
G	A	0.01	1.076194	0.2269159	3.25E-06
A	T	0.01	1.076194	0.2269159	3.25E-06
AT	A	0.01	0.943389	0.1944346	1.97E-06
G	A	0.01	1.044548	0.2285421	7.04E-06
A	T	0.06	0.5434111	0.1161042	4.31E-06
CTCTCTT	C	0.01	1.188889	0.2595312	6.73E-06
G	C	0.33	-0.2436602	0.05365479	8.01E-06
CTCTCCG	C	0.05	0.5969786	0.1306703	7.10E-06
AT	A	0.01	1.161355	0.2557447	8.02E-06
CTCTATCTATCTA	C	0.04	0.5745446	0.1257126	7.05E-06
CT	C	0.01	1.156696	0.2373123	1.78E-06
A	G	0.02	0.8296375	0.1827482	8.07E-06
GGGGTGTGTGT	G	0.02	0.9777741	0.212844	6.35E-06
C	T	0.03	0.773801	0.1672531	5.49E-06
G	C	0.02	1.001546	0.197225	6.78E-07
A	G	0.06	0.5197762	0.1133469	6.58E-06
A	G	0.06	0.5197762	0.1133469	6.58E-06
T	C	0.06	0.5181658	0.114488	8.57E-06
G	A	0.05	0.5417309	0.1160313	4.54E-06

A	AT	0.05	0.5767679	0.118242	1.75E-06
A	G	0.06	0.5181658	0.114488	8.57E-06
G	A	0.06	0.5181658	0.114488	8.57E-06
G	A	0.06	0.5181658	0.114488	8.57E-06
G	C	0.06	0.5181658	0.114488	8.57E-06
A	G	0.06	0.5181658	0.114488	8.57E-06
CT	C	0.06	0.5181658	0.114488	8.57E-06
G	A	0.06	0.5181658	0.114488	8.57E-06
C	T	0.01	1.148095	0.2498503	6.31E-06
A	AT	0.01	1.014624	0.2144246	3.42E-06
C	T	0.05	-0.5235218	0.1157432	8.68E-06
C	CTGTGTGTG	0.02	0.9391301	0.2002993	4.15E-06
G	A	0.15	-0.3465293	0.07259685	2.83E-06
T	C	0.06	0.5074067	0.111955	8.34E-06
C	T	0.46	-0.2578863	0.05482746	3.88E-06
G	T	0.01	1.217043	0.2566013	3.25E-06
C	CT	0.25	0.2796066	0.06153095	7.91E-06
T	A	0.25	0.2769342	0.06144954	9.33E-06
A	C	0.26	0.2749348	0.06090036	9.01E-06
T	C	0.12	-0.3554849	0.07838521	8.23E-06
T	A	0.12	-0.3714074	0.08005569	5.18E-06
C	G	0.19	-0.3016621	0.06589151	6.81E-06
T	C	0.19	-0.2940801	0.06522476	9.25E-06
G	A	0.18	-0.3087109	0.06672992	5.50E-06
T	G	0.18	-0.3047393	0.06650938	6.70E-06
A	G	0.22	-0.2785569	0.05709992	1.74E-06
C	T	0.18	-0.3184176	0.06735497	3.48E-06
TATA	T	0.01	1.186585	0.2478119	2.64E-06
T	A	0.33	-0.262342	0.05723392	6.64E-06
T	C	0.33	-0.2622454	0.05739074	7.08E-06
A	T	0.33	-0.2625979	0.05720258	6.44E-06
T	A	0.03	0.7209135	0.154394	4.53E-06
G	T	0.03	0.7190359	0.1567713	6.56E-06
C	T	0.02	0.8975365	0.1879387	2.80E-06
G	A	0.13	0.3466164	0.07651008	8.41E-06
G	A	0.03	-0.7962691	0.1678277	3.22E-06
G	A	0.45	-0.2417181	0.05360007	9.21E-06
T	C	0.42	-0.2608289	0.05254873	1.17E-06
T	A	0.42	-0.2610055	0.05265878	1.21E-06
A	G	0.42	-0.2586427	0.05252401	1.41E-06
G	A	0.42	-0.2654266	0.05232245	6.95E-07
A	C	0.45	-0.2373728	0.05281552	9.85E-06
G	C	0.42	-0.2699009	0.05251818	5.06E-07
C	T	0.31	0.2556074	0.05686937	9.83E-06
G	T	0.02	0.8841874	0.1966648	9.78E-06
T	C	0.01	1.035318	0.2186787	3.38E-06
A	G	0.13	0.3780367	0.07777149	1.89E-06
G	T	0.02	-0.9526591	0.2099693	8.16E-06
G	A	0.02	0.9518243	0.2065426	5.95E-06
G	T	0.01	-1.118014	0.2440143	6.70E-06

G	A	0.09	0.4527298	0.09589375	3.59E-06
G	A	0.09	0.4527298	0.09589375	3.59E-06
C	T	0.09	0.4527298	0.09589375	3.59E-06
C	T	0.09	0.4487583	0.0956459	4.09E-06
A	G	0.09	0.4487583	0.0956459	4.09E-06
G	GGTGTGTGT	0.01	1.271593	0.263716	2.26E-06
CA	C	0.01	1.187605	0.2457556	2.15E-06
A	G	0.03	0.8675344	0.1678605	4.39E-07
T	TTG	0.06	0.5190872	0.113272	6.67E-06
G	C	0.13	0.3548955	0.07833239	8.40E-06
C	T	0.13	0.3548955	0.07833239	8.40E-06
T	G	0.01	-1.03539	0.2283932	8.30E-06
G	A	0.02	1.07508	0.2179036	1.34E-06
T	C	0.01	1.150426	0.2333251	1.36E-06
T	C	0.02	1.07508	0.2179036	1.34E-06
T	A	0.01	1.110707	0.2232972	1.11E-06
T	C	0.01	1.110707	0.2232972	1.11E-06
G	T	0.01	1.196925	0.2400632	1.05E-06
C	A	0.01	1.190942	0.2475957	2.39E-06
A	G	0.01	1.190942	0.2475957	2.39E-06
C	T	0.01	1.121038	0.2401918	4.57E-06
T	TACTG	0.29	0.2604041	0.05760667	8.79E-06
A	G	0.28	0.2822991	0.05840623	2.14E-06
G	C	0.28	0.2727923	0.05844429	4.57E-06
A	G	0.28	0.2692776	0.05798392	5.08E-06
C	T	0.27	0.284542	0.05846259	1.84E-06
G	A	0.28	0.279347	0.05811855	2.43E-06
T	C	0.28	0.2807022	0.05797786	2.07E-06
G	T	0.28	0.2834047	0.05829115	1.88E-06
A	G	0.28	0.2835767	0.05850241	2.01E-06
G	A	0.26	0.2980791	0.05912978	8.09E-07
G	C	0.27	0.2944136	0.05864726	8.95E-07
C	T	0.27	0.2865225	0.05862315	1.67E-06
C	T	0.27	0.2772975	0.0586653	3.49E-06
A	G	0.28	0.2806707	0.05851051	2.54E-06
T	C	0.28	0.2795456	0.05852091	2.78E-06
T	C	0.28	0.2930464	0.05842733	9.14E-07
T	C	0.27	0.2865225	0.05862315	1.67E-06
T	A	0.27	0.283831	0.05880813	2.22E-06
C	G	0.27	0.2896941	0.05877327	1.37E-06
A	G	0.27	0.2844128	0.05863991	1.98E-06
TC	T	0.28	0.2617409	0.05802754	9.17E-06
A	G	0.27	0.2834558	0.05867558	2.17E-06
T	G	0.27	0.2747663	0.05867764	4.27E-06
T	C	0.03	0.7486138	0.1641813	7.39E-06
C	T	0.39	-0.2348821	0.05189985	8.58E-06
G	A	0.12	0.3745466	0.08206135	7.24E-06
C	T	0.02	1.005846	0.2121162	3.26E-06
G	T	0.17	0.1867483	0.03050715	3.95E-09
A	G	0.17	0.1867483	0.03050715	3.95E-09

A	G	0.17	0.1843422	0.03050048	5.96E-09
C	T	0.17	0.1843422	0.03050048	5.96E-09
C	G	0.02	1.08038	0.1789164	6.21E-09
AACAG	A	0.02	1.08038	0.1789164	6.21E-09
T	C	0.02	1.08038	0.1789164	6.21E-09
C	T	0.02	1.08038	0.1789164	6.21E-09
G	A	0.02	1.08038	0.1789164	6.21E-09
G	A	0.02	1.08038	0.1789164	6.21E-09
T	A	0.02	1.084174	0.1742413	2.33E-09
T	C	0.02	0.9769884	0.1606337	4.93E-09
G	A	0.01	0.5580395	0.09281938	5.79E-09
G	A	0.01	0.5580395	0.09281938	5.79E-09
ATCTG	A	0.01	-0.5186901	0.08336007	1.83E-09
A	G	0.16	-0.2087075	0.03425566	4.12E-09
C	T	0.02	-0.5502178	0.09173313	7.20E-09
G	C	0.02	-0.5502178	0.09173313	7.20E-09
G	GGA	0.01	-0.8873875	0.1404803	1.16E-09
C	T	0.01	-0.8473776	0.1392793	4.15E-09
G	C	0.01	-0.8473776	0.1392793	4.15E-09
A	G	0.02	0.7274165	0.1221028	8.12E-09
T	TTG	0.01	0.582357	0.1067286	1.05E-07
C	T	0.01	0.5645556	0.1008109	5.07E-08
A	G	0.46	-0.1073367	0.02210671	1.94E-06
T	C	0.4	-0.1022705	0.02159467	3.35E-06
G	T	0.02	0.3392793	0.07490485	8.44E-06
AC	A	0.05	0.2433579	0.0513978	3.37E-06
G	A	0.05	0.2433579	0.0513978	3.37E-06
G	C	0.05	0.2433579	0.0513978	3.37E-06
C	T	0.08	0.2015465	0.04002381	8.30E-07
G	C	0.01	0.6214475	0.1036784	6.37E-09
G	T	0.01	0.4978494	0.1107523	9.81E-06
G	A	0.01	0.5205311	0.11111548	4.26E-06
C	T	0.02	0.3482005	0.07707966	8.90E-06
G	A	0.02	0.3666729	0.07819059	4.14E-06
G	A	0.03	0.3286856	0.07048646	4.66E-06
T	TTA	0.32	-0.1208107	0.02599477	5.00E-06
A	T	0.01	0.464561	0.1009345	6.10E-06
G	A	0.03	0.3170679	0.06310565	8.76E-07
G	T	0.03	0.3092543	0.06810697	8.03E-06
G	T	0.03	0.3247804	0.07058122	6.13E-06
G	C	0.03	0.3221886	0.06886047	4.34E-06
G	A	0.03	0.3221886	0.06886047	4.34E-06
C	G	0.03	0.3221886	0.06886047	4.34E-06
T	C	0.03	0.3087501	0.06811681	8.32E-06
A	T	0.03	0.3087501	0.06811681	8.32E-06
T	C	0.03	0.3221886	0.06886047	4.34E-06
C	G	0.03	0.3221886	0.06886047	4.34E-06
G	C	0.03	0.3221886	0.06886047	4.34E-06
G	A	0.04	0.2919015	0.05813667	8.90E-07
G	A	0.03	0.3309145	0.07006753	3.56E-06

C	T	0.2	-0.1271957	0.02707229	3.97E-06
G	A	0.2	-0.1249916	0.02752991	8.05E-06
A	G	0.2	-0.1258578	0.02710506	5.09E-06
G	A	0.2	-0.1249916	0.02752991	8.05E-06
G	A	0.2	-0.1260715	0.02736574	5.99E-06
C	CTT	0.01	0.4503008	0.09853054	7.05E-06
G	A	0.01	0.4474711	0.09848464	7.93E-06
T	C	0.27	0.1200174	0.0249344	2.35E-06
A	G	0.26	0.1207649	0.02535636	2.97E-06
A	T	0.26	0.1229357	0.02542725	2.13E-06
G	A	0.26	0.1203735	0.02535096	3.17E-06
A	G	0.26	0.1229357	0.02542725	2.13E-06
G	C	0.26	0.1207356	0.02535744	2.98E-06
T	A	0.26	0.1201078	0.02536798	3.37E-06
T	C	0.26	0.1170179	0.0252845	5.45E-06
A	C	0.02	0.3351578	0.07319807	6.79E-06
C	T	0.2	-0.1367896	0.02884524	3.26E-06
T	C	0.03	0.3090473	0.06295128	1.51E-06
T	TACACAC	0.03	0.3064243	0.06686609	6.67E-06
G	T	0.01	0.4703812	0.1040875	8.83E-06
C	T	0.19	0.1284108	0.02838925	8.67E-06
A	T	0.01	0.4761061	0.1039512	6.75E-06
C	G	0.01	-1.190281	0.2580482	6.01E-06
G	A	0.01	1.164653	0.2571702	8.69E-06
A	G	0.01	1.378453	0.2648117	3.84E-07
C	A	0.01	1.378453	0.2648117	3.84E-07
T	C	0.01	1.29221	0.2407296	1.73E-07
A	T	0.04	0.6042038	0.1288007	4.24E-06
A	G	0.05	0.5807015	0.1273381	7.57E-06
C	T	0.04	0.5945335	0.128787	5.91E-06
T	TTTCCTCC	0.03	0.7857908	0.1731706	8.36E-06
A	G	0.29	0.3423741	0.06026098	3.56E-08
A	G	0.03	-0.6752214	0.1491089	8.71E-06
GTGA	G	0.41	0.2470034	0.05181745	3.01E-06
G	A	0.41	0.2349495	0.0517508	8.27E-06
A	G	0.41	0.2349495	0.0517508	8.27E-06
A	C	0.41	0.2351142	0.0517944	8.30E-06
T	A	0.43	0.2323552	0.0513797	8.94E-06
C	T	0.43	0.234889	0.05147539	7.48E-06
T	TA	0.4	0.2421341	0.05198788	4.92E-06
G	A	0.43	0.2310022	0.05135766	9.94E-06
C	T	0.41	0.2389613	0.05178908	5.97E-06
C	T	0.41	0.2374708	0.05184948	6.94E-06
G	C	0.4	0.2422946	0.05232767	5.55E-06
T	G	0.41	0.2466295	0.05180427	3.09E-06
C	T	0.41	0.2351142	0.0517944	8.30E-06
A	G	0.41	0.2351142	0.0517944	8.30E-06
T	C	0.41	0.2389368	0.05159398	5.53E-06
GT	G	0.02	0.7958555	0.1760203	8.98E-06
C	T	0.3	0.2646042	0.05761632	6.57E-06

C	T	0.01	1.149258	0.2336815	1.50E-06
G	A	0.01	1.416076	0.2272395	1.91E-09
C	T	0.07	-0.4778163	0.1059	9.35E-06
G	C	0.01	1.087438	0.2350105	5.63E-06
G	A	0.01	1.105324	0.2290148	2.29E-06
T	C	0.16	-0.3464181	0.07675322	9.29E-06
T	C	0.16	-0.3464181	0.07675322	9.29E-06
C	G	0.18	-0.3188154	0.0691798	6.12E-06
A	G	0.18	-0.311798	0.06928825	9.85E-06
T	C	0.18	-0.3148853	0.0696384	8.96E-06
A	C	0.18	-0.311798	0.06928825	9.85E-06
A	G	0.19	-0.3290475	0.06911468	3.09E-06
G	A	0.18	-0.319826	0.06955538	6.41E-06
A	T	0.19	-0.3290475	0.06911468	3.09E-06
C	G	0.19	-0.327797	0.0692283	3.47E-06
T	C	0.19	-0.327797	0.0692283	3.47E-06
A	G	0.19	-0.327797	0.0692283	3.47E-06
C	T	0.19	-0.3354572	0.06839908	1.60E-06
C	T	0.19	-0.3386053	0.06824813	1.23E-06
G	A	0.19	-0.3386053	0.06824813	1.23E-06
G	A	0.2	-0.3187511	0.06782299	4.07E-06
C	T	0.15	-0.3310487	0.07230647	6.99E-06
A	AGG	0.15	-0.3340919	0.07243584	6.02E-06
C	G	0.15	-0.3588546	0.07382882	1.96E-06
G	A	0.15	-0.3377457	0.07340961	6.33E-06
G	A	0.14	-0.3405764	0.07402002	6.32E-06
T	A	0.03	0.7826896	0.1647496	3.23E-06
G	A	0.02	1.010209	0.2211466	7.32E-06
A	T	0.36	0.2653122	0.05587876	3.28E-06
T	A	0.37	0.286978	0.05502454	3.66E-07
C	A	0.36	0.2843989	0.05538832	5.40E-07
A	G	0.37	0.2782799	0.05526934	8.68E-07
C	T	0.4	0.2499635	0.05550559	9.71E-06
G	A	0.37	0.2814927	0.05483543	5.43E-07
G	A	0.4	0.2732623	0.05337485	5.80E-07
G	A	0.3	0.2574012	0.05683028	8.67E-06
G	T	0.3	0.2543641	0.05646594	9.65E-06
T	C	0.29	0.2688479	0.05744588	4.45E-06
C	CAG	0.35	-0.2910894	0.05567462	3.43E-07
C	T	0.01	1.265938	0.259696	1.84E-06
A	C	0.01	1.265938	0.259696	1.84E-06
T	C	0.01	1.232111	0.2576311	2.80E-06
G	A	0.01	1.232111	0.2576311	2.80E-06
A	G	0.01	1.232111	0.2576311	2.80E-06
T	C	0.01	1.232111	0.2576311	2.80E-06
G	A	0.01	1.232111	0.2576311	2.80E-06
C	T	0.01	1.232111	0.2576311	2.80E-06
T	C	0.01	1.232111	0.2576311	2.80E-06
C	A	0.01	1.232111	0.2576311	2.80E-06
A	AGTGTGTGT	0.02	1.146691	0.217761	2.86E-07

A	AAAAC	0.02	0.8159112	0.1780821	6.89E-06
C	T	0.23	0.2785857	0.06137365	8.30E-06
A	T	0.12	-0.3865253	0.08316863	5.15E-06
C	T	0.02	0.9659101	0.2122841	7.92E-06
G	A	0.01	1.155447	0.2544016	8.21E-06
C	T	0.01	1.155447	0.2544016	8.21E-06
C	T	0.01	1.155447	0.2544016	8.21E-06
T	C	0.01	1.116061	0.2467182	8.89E-06
T	C	0.01	1.116061	0.2467182	8.89E-06
G	A	0.01	1.116061	0.2467182	8.89E-06
A	G	0.01	1.116061	0.2467182	8.89E-06
G	A	0.01	1.116061	0.2467182	8.89E-06
A	G	0.01	1.116061	0.2467182	8.89E-06
C	T	0.01	1.116061	0.2467182	8.89E-06
C	T	0.01	1.116061	0.2467182	8.89E-06
C	T	0.01	1.116061	0.2467182	8.89E-06
G	A	0.01	1.116061	0.2467182	8.89E-06
T	TA	0.01	1.116061	0.2467182	8.89E-06
A	T	0.01	1.116061	0.2467182	8.89E-06
A	G	0.01	1.116061	0.2467182	8.89E-06
T	C	0.01	1.116061	0.2467182	8.89E-06
G	A	0.01	1.116061	0.2467182	8.89E-06
C	A	0.01	1.116061	0.2467182	8.89E-06
G	C	0.01	1.116061	0.2467182	8.89E-06
G	T	0.01	1.116061	0.2467182	8.89E-06
C	A	0.01	1.116061	0.2467182	8.89E-06
G	C	0.01	1.116061	0.2467182	8.89E-06
G	C	0.01	1.116061	0.2467182	8.89E-06
C	A	0.01	1.116061	0.2467182	8.89E-06
G	A	0.01	1.116061	0.2467182	8.89E-06
T	C	0.01	1.116061	0.2467182	8.89E-06
G	C	0.02	0.9730777	0.2085732	4.75E-06
A	AAG	0.35	0.2579509	0.05511584	4.45E-06
T	C	0.11	0.4188316	0.08484148	1.38E-06
T	A	0.05	0.5685123	0.1247664	7.69E-06
GA	G	0.05	0.5766629	0.1239035	5.00E-06
C	T	0.02	0.9913635	0.1874092	2.54E-07
A	C	0.09	0.4549675	0.09630524	3.65E-06
A	AGG	0.02	1.071367	0.2257965	3.32E-06
G	GA	0.01	1.217154	0.2310897	2.85E-07
C	T	0.02	0.9373394	0.1981561	3.55E-06
C	A	0.02	0.8244784	0.179844	6.81E-06
C	CA	0.02	0.8792734	0.1936526	8.26E-06
A	G	0.06	0.4999306	0.1082684	5.88E-06
A	AT	0.01	-1.157609	0.255586	8.67E-06
T	TA	0.28	0.2594195	0.05597196	5.44E-06
C	T	0.02	-0.7809234	0.1714271	7.73E-06
C	T	0.02	-0.7498526	0.1667572	1.00E-05
C	A	0.11	0.391743	0.08677993	9.26E-06
C	CCCTT	0.07	-0.4927582	0.1060036	5.12E-06

T	C	0.23	-0.288449	0.06358719	8.41E-06
G	C	0.23	-0.2895531	0.06356583	7.74E-06
C	G	0.23	-0.2868721	0.06363362	9.51E-06
A	G	0.03	0.7648914	0.1601785	2.89E-06
TAC	T	0.03	0.8199709	0.1537589	2.06E-07
T	C	0.05	0.5388273	0.1186542	8.23E-06
A	G	0.08	0.4659155	0.1012384	6.29E-06
A	T	0.44	0.237382	0.05084703	4.68E-06
G	T	0.02	1.375427	0.2207916	2.53E-09
CT	C	0.16	-0.3234544	0.05255471	3.39E-09
G	A	0.01	0.8969596	0.1409783	1.05E-09
C	T	0.01	0.9779585	0.1648381	9.98E-09
G	A	0.01	0.8214769	0.1367642	6.49E-09
T	C	0.01	1.184636	0.1883241	1.39E-09
G	A	0.01	0.8609952	0.1439761	7.46E-09
A	G	0.37	-0.274123	0.04535932	5.78E-09
A	T	0.02	0.6873293	0.1135726	5.67E-09
A	G	0.04	0.5058747	0.08195866	3.13E-09
A	T	0.02	0.8135941	0.1256882	6.14E-10
T	A	0.03	0.6239421	0.09394692	2.42E-10
C	T	0.02	0.7431806	0.1236452	7.36E-09
T	C	0.02	0.7431806	0.1236452	7.36E-09
T	C	0.02	0.7431806	0.1236452	7.36E-09
C	T	0.03	0.5926106	0.09493332	2.15E-09
A	G	0.03	0.5926106	0.09493332	2.15E-09
G	A	0.02	0.7431806	0.1236452	7.36E-09
C	A	0.02	0.7431806	0.1236452	7.36E-09
C	G	0.03	0.5926106	0.09493332	2.15E-09
T	C	0.02	0.7010717	0.1169217	7.94E-09
T	A	0.01	0.8685237	0.1354868	8.03E-10
A	G	0.02	-0.7944816	0.1309194	5.17E-09
T	TG	0.14	0.1942704	0.03250307	8.35E-09
T	C	0.02	-0.8083901	0.1787105	8.66E-06
G	A	0.05	-0.5329019	0.11617	6.54E-06
G	A	0.02	-0.9571951	0.2026224	3.54E-06
C	T	0.05	0.5744858	0.1240157	5.35E-06
C	G	0.02	-0.911913	0.2011171	8.26E-06
C	T	0.02	-0.911913	0.2011171	8.26E-06
G	A	0.02	-0.9287697	0.1994628	4.80E-06
T	C	0.02	0.9597924	0.2084228	6.04E-06
G	GTGTTT	0.44	0.2473675	0.05199848	3.04E-06
GA	G	0.02	1.00694	0.2201525	6.94E-06
A	ATG	0.06	-0.5311954	0.1120403	3.27E-06
T	C	0.04	-0.6048832	0.1327874	7.53E-06
AAAAGAAAG	A	0.15	-0.3648855	0.07759992	3.91E-06
C	G	0.1	-0.3954163	0.08553113	5.57E-06
C	A	0.1	-0.3954163	0.08553113	5.57E-06
C	T	0.1	-0.3954163	0.08553113	5.57E-06
C	G	0.1	-0.3954163	0.08553113	5.57E-06
C	T	0.1	-0.3954163	0.08553113	5.57E-06

C	T	0.11	-0.3912176	0.08509305	6.24E-06
G	A	0.11	-0.3912176	0.08509305	6.24E-06
C	T	0.12	-0.3724336	0.08205525	8.10E-06
G	GT	0.04	-0.5922178	0.1300258	7.55E-06
T	A	0.04	-0.5856717	0.1294479	8.63E-06
G	C	0.04	-0.5856717	0.1294479	8.63E-06
C	T	0.04	-0.5856717	0.1294479	8.63E-06
G	C	0.04	-0.5856717	0.1294479	8.63E-06
T	C	0.04	-0.5856717	0.1294479	8.63E-06
G	T	0.04	-0.5856717	0.1294479	8.63E-06
G	A	0.02	0.7664854	0.1664398	6.04E-06
G	GGTGTGT	0.01	-1.086326	0.2306783	3.78E-06
G	A	0.01	1.174254	0.2537915	5.48E-06
G	A	0.01	-1.108281	0.2319208	2.76E-06
C	T	0.01	-1.185635	0.2482952	2.80E-06
A	AGTGTGT	0.03	0.7178352	0.1593929	9.45E-06
A	T	0.07	-0.4913008	0.1082017	8.03E-06
A	T	0.29	-0.2660126	0.05829193	7.26E-06
C	T	0.29	-0.2638976	0.05832669	8.62E-06
CA	C	0.28	-0.2739809	0.05950669	6.06E-06
C	T	0.29	-0.2622412	0.05794449	8.58E-06
AC	A	0.13	-0.356685	0.07870246	8.34E-06
G	T	0.13	-0.3581638	0.07854104	7.37E-06
G	A	0.13	-0.3581638	0.07854104	7.37E-06
A	G	0.13	-0.3581638	0.07854104	7.37E-06
A	C	0.13	-0.3581638	0.07854104	7.37E-06
C	T	0.13	-0.3581638	0.07854104	7.37E-06
T	G	0.13	-0.3581638	0.07854104	7.37E-06
T	TA	0.13	-0.356685	0.07870246	8.34E-06
C	A	0.13	-0.3581638	0.07854104	7.37E-06
C	T	0.13	-0.3581638	0.07854104	7.37E-06
C	T	0.13	-0.3581638	0.07854104	7.37E-06
C	T	0.13	-0.3581638	0.07854104	7.37E-06
A	T	0.13	-0.3581638	0.07854104	7.37E-06
G	A	0.12	-0.3732084	0.08012447	4.77E-06
C	T	0.1	-0.4021168	0.08790132	6.91E-06
C	A	0.11	0.3771709	0.08240772	6.84E-06
A	G	0.04	0.6123839	0.1290662	3.22E-06
C	T	0.11	0.3826671	0.08251723	5.23E-06
C	A	0.11	0.3860123	0.08232217	4.14E-06
A	G	0.11	0.3824558	0.08220012	4.88E-06
G	T	0.04	0.6751598	0.1361699	1.20E-06
G	A	0.24	-0.2783391	0.06142215	8.36E-06
A	G	0.24	-0.2885637	0.06104336	3.49E-06
G	A	0.24	-0.3076372	0.06161572	1.02E-06
A	C	0.24	-0.2960778	0.06127849	2.16E-06
T	C	0.23	-0.3199018	0.06274648	6.15E-07
G	A	0.25	-0.3036038	0.06061902	9.45E-07
G	A	0.32	-0.2595902	0.05658518	6.53E-06
C	T	0.23	-0.3312192	0.06299419	2.83E-07

C	T	0.32	-0.2664006	0.05645239	3.62E-06
T	TA	0.24	-0.2982812	0.06188141	2.28E-06
G	T	0.24	-0.3172795	0.06183516	5.25E-07
A	AAC	0.06	-0.5021986	0.1087076	5.66E-06
C	CT	0.05	-0.5413439	0.1185369	7.15E-06
C	T	0.01	-0.8696734	0.1449912	6.25E-09
GGTGTGTGTGTGT	G	0.01	-0.9403425	0.1590922	9.99E-09
A	C	0.01	-0.7472325	0.1164922	7.38E-10
G	A	0.01	-0.7198295	0.1165228	2.70E-09
T	C	0.02	0.6681208	0.1091108	3.31E-09
TATAC	T	0.05	-0.3612202	0.06058183	7.58E-09
T	C	0.01	0.9931005	0.163173	4.04E-09
G	A	0.49	0.1666488	0.02783743	7.08E-09
C	T	0.04	0.6221349	0.1342958	5.36E-06
T	C	0.05	0.6279967	0.1269896	1.28E-06
C	T	0.15	-0.3501603	0.07128135	1.49E-06
T	C	0.03	0.7973121	0.1457801	9.95E-08
G	C	0.03	0.7973121	0.1457801	9.95E-08
G	A	0.04	0.5963852	0.1324356	9.50E-06
G	A	0.03	0.7572759	0.1441735	2.93E-07
C	T	0.03	0.7572759	0.1441735	2.93E-07
C	T	0.03	0.7572759	0.1441735	2.93E-07
T	G	0.06	0.4949615	0.1084526	7.27E-06
G	T	0.03	0.7148037	0.1464399	1.73E-06
G	T	0.03	0.7547283	0.1481312	6.28E-07
C	T	0.03	0.7284939	0.1442178	7.74E-07
A	T	0.03	0.7678952	0.1458497	2.75E-07
A	G	0.03	0.7284939	0.1442178	7.74E-07
G	T	0.03	0.7678952	0.1458497	2.75E-07
T	C	0.03	0.7678952	0.1458497	2.75E-07
T	C	0.03	0.7678952	0.1458497	2.75E-07
T	A	0.03	0.7678952	0.1458497	2.75E-07
A	G	0.03	0.7678952	0.1458497	2.75E-07
G	T	0.03	0.7678952	0.1458497	2.75E-07
G	C	0.06	0.5136934	0.1139918	9.37E-06
CTGTGTG	C	0.03	0.7261407	0.1506669	2.29E-06
G	T	0.02	0.7672762	0.1677526	6.96E-06
T	G	0.03	-0.7591145	0.1632202	4.94E-06
A	G	0.02	0.9391645	0.1972281	2.99E-06
G	A	0.02	0.9683389	0.1954114	1.22E-06
A	ATGTGTGTGTG	0.02	0.8164026	0.1754074	4.86E-06
A	G	0.1	0.4225699	0.08935879	3.47E-06
G	A	0.39	-0.2520353	0.05455152	5.67E-06
G	A	0.45	-0.2533746	0.05213248	1.90E-06
A	G	0.45	-0.2493291	0.05207473	2.65E-06
G	A	0.44	-0.2497374	0.05139877	1.91E-06
C	G	0.44	-0.233527	0.0516105	8.64E-06
C	T	0.45	-0.2438456	0.0516338	3.57E-06
C	T	0.45	-0.2435553	0.05133602	3.24E-06
T	A	0.49	-0.2503706	0.05112581	1.60E-06

C	T	0.45	-0.242468	0.05144817	3.73E-06
T	C	0.44	-0.2420662	0.05154112	4.02E-06
T	C	0.49	-0.2515547	0.05107512	1.41E-06
G	A	0.45	-0.242468	0.05144817	3.73E-06
G	A	0.44	-0.2432453	0.0514101	3.43E-06
T	C	0.49	-0.2493007	0.05110286	1.75E-06
C	T	0.44	-0.2418151	0.05138323	3.85E-06
C	T	0.44	-0.2366719	0.05153635	6.41E-06
T	C	0.45	-0.2416778	0.05145249	4.01E-06
C	A	0.44	-0.2373338	0.05141919	5.78E-06
A	G	0.43	-0.2430427	0.05206908	4.58E-06
G	A	0.45	-0.2433672	0.05154559	3.59E-06
G	A	0.45	-0.2435168	0.05141201	3.35E-06
G	A	0.45	-0.247224	0.0513434	2.34E-06
G	A	0.45	-0.247224	0.0513434	2.34E-06
G	A	0.45	-0.247224	0.0513434	2.34E-06
ACAGAGG	A	0.47	-0.244479	0.05149649	3.19E-06
TACAC	T	0.02	0.8804052	0.1837623	2.62E-06
T	A	0.34	0.2609006	0.0573012	7.63E-06
A	G	0.34	0.262794	0.05656727	5.05E-06
C	T	0.26	-0.2780038	0.06129085	8.23E-06
T	G	0.01	1.221254	0.2620577	4.73E-06
T	A	0.01	1.221254	0.2620577	4.73E-06
C	T	0.01	1.221254	0.2620577	4.73E-06
T	G	0.01	1.221254	0.2620577	4.73E-06
G	GA	0.01	1.221254	0.2620577	4.73E-06
C	T	0.01	1.040713	0.2198858	3.41E-06
A	CACACACACACACA	0.02	0.8586706	0.1885828	7.62E-06
A	T	0.16	0.3332999	0.07354046	8.36E-06
C	A	0.34	-0.2569833	0.05501847	4.51E-06
A	AAT	0.01	1.165366	0.227271	5.37E-07
C	T	0.01	1.184865	0.2504243	3.43E-06
C	T	0.01	1.084633	0.2259734	2.51E-06
T	A	0.01	1.084633	0.2259734	2.51E-06
T	A	0.01	1.084633	0.2259734	2.51E-06
T	A	0.01	1.184865	0.2504243	3.43E-06
T	C	0.01	1.084633	0.2259734	2.51E-06
G	T	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06
C	G	0.01	1.084633	0.2259734	2.51E-06
G	C	0.01	1.084633	0.2259734	2.51E-06
C	T	0.01	1.084633	0.2259734	2.51E-06
A	C	0.01	1.084633	0.2259734	2.51E-06
C	A	0.01	1.184865	0.2504243	3.43E-06
T	C	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06
G	C	0.01	1.184865	0.2504243	3.43E-06
A	AT	0.01	1.310587	0.2584182	7.03E-07
A	T	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06

T	G	0.01	1.184865	0.2504243	3.43E-06
AC	A	0.01	1.310587	0.2584182	7.03E-07
C	T	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06
A	G	0.01	1.184865	0.2504243	3.43E-06
G	A	0.01	1.184865	0.2504243	3.43E-06
T	C	0.01	1.182435	0.2612206	8.57E-06
A	C	0.02	0.8834787	0.1936672	7.34E-06
G	C	0.01	1.233427	0.2604902	3.38E-06
T	TTTTA	0.5	0.2514936	0.0502318	9.57E-07
G	A	0.02	0.7911055	0.1758883	9.73E-06
G	A	0.01	1.080255	0.2387838	8.67E-06
T	C	0.3	0.2647186	0.05700662	5.10E-06
G	A	0.29	0.2648854	0.05769538	6.45E-06
A	G	0.3	0.2563078	0.05705368	9.96E-06
C	T	0.3	0.2557999	0.05663921	8.97E-06
A	G	0.3	0.2588545	0.05702299	8.10E-06
C	CTT	0.29	0.2625279	0.0579633	8.47E-06
C	T	0.3	0.2660917	0.05752047	5.52E-06
A	G	0.3	0.2606259	0.05682019	6.57E-06
CT	C	0.3	0.2597378	0.05764605	9.39E-06
C	G	0.03	-0.7748212	0.1682587	6.06E-06
T	A	0.03	-0.7748212	0.1682587	6.06E-06
C	T	0.01	1.152997	0.2421353	2.99E-06
T	C	0.01	1.102372	0.2447684	9.48E-06
C	T	0.02	0.9528401	0.211556	9.47E-06
G	A	0.02	0.9547872	0.2060865	5.35E-06
G	A	0.02	0.8629433	0.1859119	5.15E-06
G	A	0.04	0.6607099	0.1469837	9.84E-06
T	A	0.2	0.2928336	0.06397293	6.85E-06
G	A	0.07	0.4701228	0.1028086	6.99E-06
G	A	0.04	0.6036916	0.1313364	6.29E-06
AC	A	0.02	0.800488	0.1770817	8.81E-06
T	C	0.02	0.800488	0.1770817	8.81E-06
TC	T	0.02	0.800488	0.1770817	8.81E-06
GA	G	0.02	0.8331916	0.1803883	5.70E-06
T	C	0.09	-0.4353577	0.09400001	5.39E-06
C	T	0.01	1.156663	0.2551248	8.31E-06
GA	G	0.02	0.8717432	0.1831155	3.01E-06
G	A	0.02	0.8536879	0.1880064	8.06E-06
G	A	0.29	-0.2839515	0.05993569	3.34E-06
GA	G	0.12	-0.3701381	0.08126305	7.57E-06
G	A	0.02	0.8735415	0.1906819	6.74E-06
G	A	0.06	0.5146508	0.1066529	2.23E-06
A	G	0.06	0.5143908	0.1116411	5.99E-06
A	T	0.06	0.5143908	0.1116411	5.99E-06
G	A	0.13	0.3569944	0.07677993	4.97E-06
C	CT	0.12	0.36356	0.07978584	7.51E-06
T	C	0.33	0.2601758	0.05776094	9.45E-06

G	A	0.4	-0.268647	0.05430911	1.27E-06
C	G	0.02	1.026077	0.2103689	1.75E-06
A	C	0.01	1.241065	0.2595847	2.74E-06
A	G	0.04	0.5488634	0.1208903	8.08E-06
TC	T	0.02	0.9143824	0.1922543	3.07E-06
A	T	0.18	-0.326538	0.06383787	5.71E-07
C	T	0.17	-0.317637	0.06451093	1.41E-06
A	T	0.01	1.034505	0.227768	8.01E-06
TGTGTGTGTGTGG	T	0.15	0.3356842	0.07411316	8.47E-06
C	A	0.07	-0.4641515	0.1027255	8.89E-06
T	C	0.42	0.2440004	0.05310822	6.35E-06
A	G	0.43	0.2407452	0.05265772	7.02E-06
C	T	0.01	1.162604	0.2307555	8.24E-07
G	A	0.01	1.16992	0.2450122	2.82E-06
G	C	0.01	1.031252	0.2245157	6.39E-06
G	T	0.46	-0.2560113	0.05513173	5.10E-06
C	T	0.4	-0.2551769	0.05410803	3.68E-06
G	C	0.4	-0.2549124	0.05402855	3.65E-06
G	GATAT	0.31	-0.2721418	0.05857462	5.05E-06
T	TAC	0.39	-0.2554855	0.05395348	3.37E-06
C	T	0.4	-0.2551769	0.05410803	3.68E-06
C	T	0.4	-0.2524829	0.05407375	4.55E-06
G	A	0.5	0.2450764	0.05416799	8.66E-06
A	G	0.48	0.2482705	0.05461347	7.87E-06
G	A	0.48	0.2471529	0.05477849	9.15E-06
G	T	0.49	-0.2735049	0.05454814	9.25E-07
T	C	0.48	-0.2783329	0.05469858	6.48E-07
G	T	0.48	0.2463318	0.05468735	9.45E-06
A	G	0.48	0.2460607	0.05466595	9.58E-06
A	C	0.48	-0.2790872	0.05458173	5.76E-07
G	GTCA	0.48	-0.2771299	0.05465881	7.08E-07
G	A	0.4	-0.2570568	0.05383814	2.82E-06
C	G	0.4	-0.2530097	0.05410359	4.40E-06
G	A	0.4	-0.2572227	0.05400827	2.98E-06
A	G	0.39	-0.2550783	0.05406864	3.65E-06
C	T	0.4	-0.2506778	0.05427921	5.71E-06
T	C	0.4	-0.2554716	0.05392977	3.35E-06
T	G	0.4	-0.2525355	0.0539074	4.24E-06
T	G	0.4	-0.2554716	0.05392977	3.35E-06
C	T	0.4	-0.2572484	0.05401803	2.98E-06
G	A	0.4	-0.2572357	0.05396098	2.92E-06
G	A	0.46	-0.2629762	0.05362583	1.55E-06
A	G	0.45	-0.2416864	0.05371829	9.67E-06
G	A	0.06	0.5052914	0.1104818	6.97E-06
C	T	0.06	0.5052914	0.1104818	6.97E-06
T	C	0.07	0.5107658	0.1097085	4.83E-06
C	T	0.06	0.5052914	0.1104818	6.97E-06
C	T	0.01	1.088489	0.228676	3.02E-06
G	A	0.01	1.088489	0.228676	3.02E-06
C	A	0.28	0.2764071	0.05902328	4.27E-06

T	C	0.47	0.2333373	0.05188167	9.74E-06
T	C	0.14	-0.3763752	0.06121712	3.25E-09
G	A	0.4	-0.1790497	0.02966453	5.14E-09
T	C	0.33	0.2282888	0.03821951	8.04E-09
G	T	0.02	0.6333109	0.1058777	6.91E-09
G	A	0.02	0.6333109	0.1058777	6.91E-09
T	C	0.02	0.6333109	0.1058777	6.91E-09
G	A	0.02	0.6333109	0.1058777	6.91E-09
T	C	0.22	-0.1939861	0.03256282	9.09E-09
C	T	0.01	-1.208414	0.2016347	6.47E-09
T	C	0.48	-0.3017412	0.0502258	5.98E-09
A	C	0.48	-0.304193	0.05007111	4.15E-09
T	G	0.21	-0.3574711	0.06043251	9.82E-09
G	GTCA	0.48	-0.2998665	0.0501778	7.09E-09
G	A	0.4	-0.2973295	0.04924867	5.09E-09
A	G	0.39	-0.2960082	0.04946794	6.80E-09
T	C	0.4	-0.2929087	0.04940841	9.15E-09
T	G	0.4	-0.2929087	0.04940841	9.15E-09
G	A	0.46	-0.3042471	0.0491081	2.15E-09
C	T	0.01	0.8962339	0.1508117	8.47E-09
A	C	0.02	0.7240151	0.1205305	6.13E-09
C	G	0.03	-0.610279	0.1030082	9.35E-09
T	A	0.03	-0.610279	0.1030082	9.35E-09
C	G	0.02	-0.7513465	0.1205136	1.78E-09
T	C	0.01	0.5303193	0.08938521	8.93E-09
T	C	0.46	-0.1013124	0.01694639	7.83E-09
C	T	0.01	0.4326769	0.07290265	8.89E-09
G	A	0.01	0.4451054	0.07461446	7.56E-09
G	A	0.01	0.4309271	0.07255433	8.69E-09
T	C	0.01	0.570238	0.09346222	4.01E-09
A	AC	0.01	0.570238	0.09346222	4.01E-09
C	CT	0.01	0.570238	0.09346222	4.01E-09
A	G	0.01	0.570238	0.09346222	4.01E-09
A	G	0.01	0.570238	0.09346222	4.01E-09
G	C	0.02	0.2869613	0.04837395	8.98E-09
C	T	0.01	-1.080782	0.1803499	8.33E-09
T	A	0.23	-0.1600021	0.02704339	9.93E-09
T	C	0.01	-0.8259888	0.1368524	5.90E-09
ATGTGTGTGTG	A	0.01	-0.5668325	0.09263828	3.30E-09
G	A	0.01	-0.5763081	0.08996322	6.73E-10
C	T	0.01	-0.5763081	0.08996322	6.73E-10
T	C	0.46	-0.1090278	0.01840076	9.33E-09
T	C	0.5	-0.1089038	0.01809284	5.64E-09
G	T	0.16	-0.3463237	0.07354734	3.87E-06
C	T	0.03	-0.7476835	0.1632187	6.86E-06
G	A	0.02	-0.9482428	0.2035608	4.86E-06
CTT	C	0.02	-0.9753908	0.2062202	3.52E-06
A	T	0.17	-0.322834	0.07134946	8.78E-06
C	T	0.17	-0.322834	0.07134946	8.78E-06
T	C	0.17	-0.322834	0.07134946	8.78E-06

CACAA	C	0.05	-0.6179116	0.1165737	2.38E-07
T	G	0.03	-0.8127687	0.1604074	7.37E-07
C	A	0.03	-0.7305028	0.1617606	9.12E-06
A	G	0.01	-1.198378	0.2438517	1.51E-06
G	A	0.34	-0.2694166	0.05625584	2.69E-06
T	C	0.03	-0.699083	0.153196	7.41E-06
CTTATTTAT	C	0.01	1.1351	0.2329934	1.84E-06
C	T	0.03	-0.7391456	0.1632079	8.62E-06
A	C	0.03	-0.7391456	0.1632079	8.62E-06
G	A	0.01	-1.141189	0.2280413	9.92E-07
G	A	0.01	-1.141189	0.2280413	9.92E-07
G	T	0.01	-1.155962	0.2555683	8.84E-06
C	T	0.03	-0.7817532	0.164144	3.04E-06
G	C	0.01	-1.189667	0.2617239	8.02E-06
C	G	0.01	-1.156475	0.2545834	8.12E-06
A	C	0.13	0.3765145	0.07944032	3.37E-06
C	T	0.01	-1.222184	0.2637402	5.42E-06
C	T	0.03	-0.7187541	0.1597495	9.81E-06
C	T	0.03	-0.7187541	0.1597495	9.81E-06
G	T	0.03	-0.7187541	0.1597495	9.81E-06
C	T	0.03	-0.7187541	0.1597495	9.81E-06
G	A	0.03	-0.7187541	0.1597495	9.81E-06
G	A	0.03	-0.7187541	0.1597495	9.81E-06
C	T	0.05	-0.6034598	0.1293942	4.75E-06
A	G	0.05	-0.6034598	0.1293942	4.75E-06
G	T	0.01	-1.081197	0.2376558	7.88E-06
C	T	0.49	0.2723444	0.05508117	1.31E-06
C	G	0.28	-0.2739499	0.0586398	4.58E-06
CAG	C	0.27	-0.2812295	0.05944317	3.51E-06
C	CGTGTGT	0.08	-0.4601317	0.1017362	8.86E-06
A	C	0.02	0.9591532	0.2094337	6.89E-06
C	T	0.27	-0.2908227	0.06433133	8.94E-06
A	G	0.29	-0.2908577	0.06413623	8.39E-06
T	C	0.29	-0.2975717	0.06411405	5.25E-06
C	G	0.29	-0.2919216	0.0634751	6.33E-06
T	A	0.16	-0.3369013	0.07441868	8.69E-06
G	A	0.23	-0.3008111	0.06507789	5.71E-06
G	A	0.23	-0.3008111	0.06507789	5.71E-06
G	A	0.23	-0.2960564	0.06510951	7.96E-06
C	T	0.23	-0.2980263	0.06511841	6.99E-06
C	G	0.34	-0.2633095	0.05619872	4.31E-06
A	G	0.2	-0.3127252	0.06882047	8.07E-06
T	C	0.2	-0.3127252	0.06882047	8.07E-06
G	T	0.2	-0.3177309	0.06953773	7.22E-06
C	CTGTG	0.01	-1.196031	0.2444932	1.68E-06
A	AT	0.09	-0.4748424	0.09510188	1.05E-06
C	CGTGTGT	0.04	-0.6310467	0.1346421	4.28E-06
A	G	0.06	-0.4912106	0.1080369	7.97E-06
T	TG	0.42	-0.2467926	0.05357942	6.14E-06
G	A	0.01	-1.087459	0.2361575	6.17E-06

G	A	0.01	-1.154093	0.2374237	1.94E-06
A	G	0.02	-0.9514535	0.2108008	9.22E-06
C	T	0.02	-0.9514535	0.2108008	9.22E-06
A	G	0.4	-0.2529506	0.05525742	6.96E-06
C	T	0.35	0.2563046	0.05583729	6.58E-06
G	C	0.3	-0.264491	0.05845064	8.77E-06
C	T	0.3	-0.2722634	0.05829894	4.61E-06
A	ATGTG	0.2	-0.3206845	0.07088719	8.81E-06
G	C	0.48	-0.2394764	0.0519484	6.03E-06
C	T	0.43	-0.2569046	0.05397632	3.08E-06
T	C	0.43	-0.2559105	0.05420973	3.67E-06
T	C	0.44	-0.2495783	0.05389255	5.49E-06
A	G	0.49	-0.2465584	0.05061632	1.85E-06
G	CTGTCTGTCTGTCTGT	0.09	-0.4020199	0.08656813	5.18E-06
T	G	0.07	-0.5136419	0.1097822	4.44E-06
C	T	0.07	-0.5136419	0.1097822	4.44E-06
G	A	0.07	-0.4849704	0.1052201	6.05E-06
G	A	0.02	-0.9790428	0.2150229	7.75E-06
T	TAA	0.09	-0.3849926	0.08086014	3.06E-06
A	G	0.02	-1.076521	0.2003721	1.67E-07
G	T	0.19	0.3244723	0.07125294	7.73E-06
C	T	0.4	0.2559962	0.05265881	1.93E-06
A	ATGTGTGTG	0.09	0.4630415	0.09468641	1.69E-06
T	C	0.06	-0.5023728	0.1100871	7.41E-06
AAT	A	0.45	-0.2574821	0.05619801	6.84E-06
A	G	0.02	-0.8160175	0.1763803	5.60E-06
A	TACACACACACACACA	0.03	-0.7664974	0.1595736	2.52E-06
G	T	0.02	-0.850376	0.1783477	2.96E-06
G	A	0.01	-1.225854	0.2534524	2.17E-06
T	C	0.12	0.3747054	0.0831429	9.50E-06
A	T	0.12	0.385253	0.08319812	5.50E-06
T	G	0.03	-0.6848779	0.1497588	7.10E-06
C	T	0.34	0.262536	0.05493321	2.82E-06
C	T	0.29	-0.2902823	0.06102906	3.12E-06
G	GT	0.01	-1.394445	0.2548883	1.02E-07
C	A	0.01	-1.394445	0.2548883	1.02E-07
C	G	0.01	-1.394445	0.2548883	1.02E-07
C	A	0.01	-1.394445	0.2548883	1.02E-07
CA	C	0.01	-1.394445	0.2548883	1.02E-07
C	T	0.01	-1.249644	0.2639861	3.46E-06
TCCCAACAA	T	0.02	-0.8946919	0.197064	8.21E-06
G	C	0.03	0.6036748	0.1009382	7.33E-09
A	T	0.02	0.6904528	0.1158598	8.21E-09
T	C	0.23	-0.1110747	0.01854907	7.00E-09
G	C	0.12	-0.1577689	0.02475815	8.60E-10
A	G	0.12	-0.1587675	0.02472866	6.58E-10
C	A	0.29	-0.1043414	0.01697938	3.00E-09
T	C	0.29	-0.1064558	0.01668873	8.29E-10
T	C	0.25	-0.1076317	0.01778164	4.94E-09
A	G	0.28	-0.1150117	0.01728209	1.75E-10

T	A	0.16	-0.1400193	0.02163867	4.96E-10
C	T	0.05	-0.2486828	0.03837619	4.71E-10
C	CA	0.3	-0.1369056	0.01744187	1.34E-13
C	T	0.15	-0.1572948	0.02393511	2.81E-10
T	C	0.14	-0.1525995	0.02434052	1.52E-09
G	A	0.14	-0.1566148	0.02425694	5.37E-10
G	C	0.15	-0.1855345	0.02377107	1.77E-13
A	G	0.28	-0.1562141	0.01772833	2.70E-16
A	G	0.28	-0.1557976	0.01773897	3.27E-16
C	T	0.09	-0.2072594	0.02826836	3.25E-12
T	C	0.28	-0.164806	0.01731065	2.32E-18
T	C	0.29	-0.1584981	0.01722445	2.00E-17
G	A	0.28	-0.1591572	0.01731101	2.11E-17
C	G	0.28	-0.1629095	0.01714424	2.62E-18
T	C	0.29	-0.1570901	0.01720099	3.18E-17
G	T	0.29	-0.1570901	0.01720099	3.18E-17
A	G	0.29	-0.1604342	0.01731104	1.28E-17
C	G	0.08	-0.2078606	0.02902413	9.03E-12
A	G	0.29	-0.1570534	0.01722612	3.53E-17
C	T	0.28	-0.1561392	0.01754616	1.52E-16
C	T	0.28	-0.1496348	0.01739232	1.06E-15
T	C	0.28	-0.1530808	0.01749322	4.03E-16
G	T	0.28	-0.154309	0.01756449	3.21E-16
G	A	0.28	-0.1551057	0.01753103	2.13E-16
C	T	0.33	-0.1163385	0.01580042	2.69E-12
T	C	0.14	-0.1706322	0.02401953	1.27E-11
G	A	0.14	-0.1668471	0.02411576	3.80E-11
G	A	0.14	-0.1693726	0.02410923	2.03E-11
G	C	0.14	-0.1668471	0.02411576	3.80E-11
A	G	0.14	-0.1668471	0.02411576	3.80E-11
A	C	0.14	-0.1668471	0.02411576	3.80E-11
G	C	0.14	-0.1668471	0.02411576	3.80E-11
G	A	0.14	-0.1668471	0.02411576	3.80E-11
A	G	0.14	-0.1689813	0.02406364	2.07E-11
G	T	0.08	-0.2052733	0.02913475	1.80E-11
A	T	0.14	-0.1712742	0.02409031	1.23E-11
A	G	0.08	-0.2052733	0.02913475	1.80E-11
T	C	0.23	-0.183408	0.01779684	1.04E-20
T	C	0.23	-0.181893	0.01764676	1.03E-20
A	G	0.24	-0.1666197	0.01730749	1.12E-18
T	C	0.25	-0.1735971	0.01675279	7.00E-21
C	T	0.23	-0.182455	0.01781725	1.64E-20
A	G	0.23	-0.1731546	0.01777369	5.10E-19
C	T	0.08	-0.2104883	0.02947646	1.02E-11
A	G	0.14	-0.1689813	0.02406364	2.07E-11
C	G	0.23	-0.179117	0.01757614	2.31E-20
T	A	0.08	-0.2130898	0.02936036	5.08E-12
G	A	0.15	-0.1610088	0.02331539	4.10E-11
T	C	0.15	-0.1591802	0.02332046	6.53E-11
T	A	0.15	-0.1563723	0.02313808	9.65E-11

T	C	0.09	-0.1993906	0.02790851	1.00E-11
G	C	0.15	-0.1591802	0.02332046	6.53E-11
T	G	0.15	-0.1549996	0.02311933	1.32E-10
A	G	0.08	-0.2007438	0.02969253	9.51E-11
A	T	0.08	-0.1992659	0.02938129	8.41E-11
A	C	0.15	-0.1591802	0.02332046	6.53E-11
C	G	0.08	-0.2052733	0.02913475	1.80E-11
A	G	0.08	-0.2052733	0.02913475	1.80E-11
G	C	0.08	-0.2052733	0.02913475	1.80E-11
A	T	0.14	-0.1646455	0.02435412	9.52E-11
G	A	0.14	-0.1656127	0.02434026	7.40E-11
C	T	0.08	-0.2104883	0.02947646	1.02E-11
A	AAAC	0.13	-0.1760258	0.02621759	1.24E-10
C	T	0.08	-0.2163501	0.02982527	5.19E-12
A	T	0.14	-0.1602132	0.0235828	7.86E-11
C	T	0.09	-0.2059373	0.02833295	4.76E-12
A	AT	0.14	-0.1470083	0.02309693	8.97E-10
T	C	0.14	-0.1568667	0.02315691	8.81E-11
C	G	0.14	-0.1664756	0.02383698	2.59E-11
C	T	0.28	-0.119483	0.01766859	9.42E-11
A	G	0.39	-0.1034113	0.01652504	1.62E-09
T	G	0.27	-0.1173881	0.01793626	3.27E-10
G	C	0.27	-0.1180338	0.01792227	2.59E-10
G	GT	0.01	-0.8950427	0.1482684	5.46E-09
C	A	0.01	-0.8950427	0.1482684	5.46E-09
C	G	0.01	-0.8950427	0.1482684	5.46E-09
C	A	0.01	-0.8950427	0.1482684	5.46E-09
CA	C	0.01	-0.8950427	0.1482684	5.46E-09
G	A	0.01	-0.5823928	0.0963351	5.12E-09
G	A	0.01	-0.5823928	0.0963351	5.12E-09
G	A	0.05	-0.5784304	0.09403781	2.89E-09
T	G	0.09	-0.3040002	0.05117024	9.59E-09
T	C	0.02	-1.005141	0.2188545	6.38E-06
G	A	0.02	-0.9353908	0.1928334	1.98E-06
C	T	0.02	-0.9353908	0.1928334	1.98E-06
C	A	0.01	-1.371402	0.2542206	1.44E-07
C	G	0.01	-1.371402	0.2542206	1.44E-07
A	T	0.01	-1.140329	0.2440268	4.46E-06
AT	A	0.04	-0.5468423	0.1191488	6.47E-06
G	C	0.17	0.3452625	0.07459124	5.43E-06
T	C	0.17	0.3438073	0.07432597	5.51E-06
A	G	0.01	-1.177616	0.2586983	7.64E-06
T	C	0.01	-1.177616	0.2586983	7.64E-06
C	CTTTTG	0.42	-0.2474903	0.05432865	7.53E-06
C	A	0.34	-0.2475471	0.05488866	9.19E-06
ATGTTATGTTAT	A	0.08	-0.4659106	0.103062	8.77E-06
G	C	0.48	0.2480893	0.05495401	9.01E-06
A	C	0.28	-0.2555175	0.05686976	9.90E-06
G	A	0.28	-0.2597938	0.05715469	7.86E-06
T	TA	0.27	-0.2777076	0.05992094	5.29E-06

T	C	0.28	-0.2634274	0.05699823	5.61E-06
G	T	0.27	-0.2664119	0.05758512	5.49E-06
G	A	0.28	-0.268219	0.05694376	3.76E-06
G	A	0.28	-0.2644892	0.05756451	6.32E-06
G	A	0.31	-0.2510318	0.0556871	9.28E-06
C	T	0.28	-0.2643269	0.05718283	5.59E-06
G	A	0.28	-0.2631388	0.05717003	6.10E-06
T	C	0.28	-0.2587242	0.05740594	9.31E-06
G	T	0.28	-0.259417	0.05716612	8.13E-06
G	GA	0.27	-0.2717231	0.05766702	3.74E-06
C	T	0.28	-0.2644892	0.05756451	6.32E-06
G	A	0.38	-0.250042	0.05519643	8.42E-06
C	CAA	0.3	-0.2706466	0.05610831	2.24E-06
C	T	0.02	-0.9965412	0.2204884	8.81E-06
C	A	0.04	-0.6717309	0.1381248	1.87E-06
A	G	0.04	-0.6276322	0.1370679	6.78E-06
A	G	0.04	-0.6276322	0.1370679	6.78E-06
C	T	0.04	-0.6465982	0.1346501	2.48E-06
A	G	0.04	-0.6775961	0.1353621	9.57E-07
C	A	0.04	-0.6465982	0.1346501	2.48E-06
A	G	0.04	-0.6465982	0.1346501	2.48E-06
A	T	0.04	-0.6465982	0.1346501	2.48E-06
CACCTCAGATCATCAG	C	0.04	-0.6465982	0.1346501	2.48E-06
T	TAGAG	0.04	-0.6465982	0.1346501	2.48E-06
A	T	0.04	-0.6465982	0.1346501	2.48E-06
C	T	0.04	-0.6465982	0.1346501	2.48E-06
C	T	0.04	-0.6465982	0.1346501	2.48E-06
GT	G	0.04	-0.6465982	0.1346501	2.48E-06
G	C	0.04	-0.6465982	0.1346501	2.48E-06
C	T	0.04	-0.6465982	0.1346501	2.48E-06
C	T	0.04	-0.6465982	0.1346501	2.48E-06
C	T	0.01	-1.290223	0.2584984	1.02E-06
G	T	0.02	-0.9335391	0.2010752	5.10E-06
A	G	0.22	-0.2771888	0.0580233	2.78E-06
AT	A	0.36	-0.2463366	0.05259885	4.25E-06
ATGTG	A	0.01	1.093375	0.2380832	6.39E-06
A	G	0.02	-1.008709	0.2161714	4.59E-06
G	A	0.21	-0.3199405	0.06818615	4.09E-06
A	G	0.12	0.3503481	0.0779558	9.85E-06
C	T	0.06	-0.5101211	0.1122672	7.92E-06
G	GAAGA	0.08	-0.4550022	0.0958069	3.15E-06
C	T	0.07	0.4938981	0.1028483	2.47E-06
G	A	0.07	0.4761469	0.101019	3.71E-06
C	T	0.07	0.4791751	0.09968297	2.42E-06
G	T	0.07	0.5023582	0.1019137	1.37E-06
C	G	0.02	1.05254	0.2109209	1.03E-06
C	T	0.02	0.9761028	0.2116595	5.86E-06
G	A	0.14	-0.3677502	0.08185848	9.92E-06
AAC	A	0.04	-0.6558274	0.1408173	4.78E-06
G	A	0.02	-0.8649191	0.1814007	2.89E-06

A	G	0.27	-0.2691516	0.05802115	5.19E-06
C	G	0.22	-0.278919	0.0618567	9.23E-06
A	T	0.22	-0.2818545	0.06187046	7.52E-06
T	C	0.22	-0.2818545	0.06187046	7.52E-06
T	A	0.02	-0.9243638	0.2050343	9.26E-06
G	T	0.02	-0.9783683	0.2115625	5.54E-06
TATACAC	T	0.06	-0.5157327	0.1132964	7.64E-06
G	A	0.18	0.3595182	0.06868851	3.18E-07
G	A	0.19	0.3069579	0.06747863	7.74E-06
T	G	0.2	0.3166787	0.06489459	1.73E-06
T	C	0.17	0.3386081	0.07132841	3.18E-06
G	T	0.22	-0.3255404	0.06609927	1.40E-06
G	A	0.22	-0.328928	0.06550531	8.88E-07
G	A	0.22	-0.3255404	0.06609927	1.40E-06
C	T	0.4	-0.2464394	0.05417151	7.73E-06
C	T	0.43	-0.2363071	0.05070784	4.72E-06
A	G	0.22	-0.3269496	0.06552337	1.03E-06
T	C	0.21	-0.2997734	0.06664875	9.69E-06
C	T	0.22	-0.328928	0.06550531	8.88E-07
C	T	0.22	-0.3236724	0.06550355	1.30E-06
G	C	0.4	-0.246236	0.05410334	7.67E-06
C	CTG	0.4	-0.2462396	0.05402008	7.43E-06
T	C	0.22	-0.328928	0.06550531	8.88E-07
G	GATAT	0.31	-0.3137675	0.05830418	1.53E-07
T	G	0.4	-0.2433192	0.05410785	9.73E-06
T	TAC	0.39	-0.2458341	0.05408319	7.86E-06
C	T	0.4	-0.2464394	0.05417151	7.73E-06
C	T	0.22	-0.328928	0.06550531	8.88E-07
C	T	0.23	-0.3277684	0.0649993	8.03E-07
C	T	0.22	-0.328928	0.06550531	8.88E-07
A	G	0.23	-0.3264349	0.0655603	1.09E-06
TACACAC	T	0.21	-0.3077532	0.06706185	6.48E-06
A	G	0.22	-0.3354694	0.06624491	7.25E-07
C	A	0.31	-0.2945914	0.05965406	1.32E-06
T	A	0.31	-0.2945914	0.05965406	1.32E-06
G	A	0.31	-0.2945914	0.05965406	1.32E-06
G	A	0.31	-0.2945914	0.05965406	1.32E-06
C	A	0.21	-0.309266	0.06627363	4.59E-06
G	A	0.22	-0.3378972	0.06513871	4.00E-07
G	A	0.22	-0.3378972	0.06513871	4.00E-07
A	AG	0.31	-0.285722	0.05989348	2.86E-06
T	G	0.31	-0.2831271	0.05986798	3.45E-06
A	G	0.31	-0.2950372	0.05961602	1.25E-06
G	T	0.49	-0.2657884	0.05475534	1.95E-06
A	G	0.22	-0.3378972	0.06513871	4.00E-07
T	C	0.22	-0.3378972	0.06513871	4.00E-07
T	C	0.49	-0.2671798	0.05494001	1.87E-06
G	C	0.3	-0.2827458	0.05952018	3.14E-06
T	C	0.31	-0.3011069	0.0596144	7.72E-07
T	C	0.31	-0.2905197	0.05977642	1.89E-06

C	A	0.22	-0.3431055	0.06510206	2.67E-07
A	C	0.49	-0.265542	0.05482117	2.04E-06
T	G	0.21	-0.3366055	0.06570425	5.46E-07
C	T	0.22	-0.3378972	0.06513871	4.00E-07
GT	G	0.31	-0.2893826	0.05969888	2.01E-06
A	G	0.22	-0.3378972	0.06513871	4.00E-07
G	GTCA	0.49	-0.2660745	0.05488932	2.01E-06
G	A	0.31	-0.2993542	0.059609	8.86E-07
G	A	0.4	-0.2608348	0.05382958	2.03E-06
C	G	0.41	-0.2560104	0.05401342	3.29E-06
G	A	0.41	-0.2562856	0.05395081	3.14E-06
A	G	0.4	-0.2557017	0.05408123	3.47E-06
C	T	0.41	-0.2539628	0.05409178	4.03E-06
T	C	0.41	-0.2609278	0.05388518	2.06E-06
T	G	0.41	-0.2601044	0.05384856	2.17E-06
T	G	0.41	-0.2609278	0.05388518	2.06E-06
C	T	0.41	-0.2598458	0.05393474	2.30E-06
G	A	0.41	-0.2548703	0.05391205	3.48E-06
G	A	0.46	-0.2806814	0.05359766	3.14E-07
A	G	0.46	-0.2668766	0.05363442	1.10E-06
C	A	0.31	0.271232	0.05932766	7.00E-06
G	A	0.04	0.6382641	0.1373355	5.00E-06
A	G	0.07	-0.4778549	0.1050205	7.70E-06
A	T	0.02	0.6630135	0.1112788	7.83E-09
T	C	0.14	-0.3141168	0.05251846	7.87E-09
C	T	0.01	-0.5143397	0.08556519	5.81E-09
G	GAAGA	0.08	-0.4959486	0.08090421	3.04E-09
T	G	0.21	-0.3373779	0.05558378	4.23E-09
G	A	0.46	-0.277209	0.04533339	3.31E-09
G	GAAGA	0.08	-0.5620924	0.09168347	4.02E-09
T	A	0.02	-0.579877	0.09777033	8.97E-09
G	T	0.02	-0.610722	0.1007996	4.51E-09
C	A	0.02	-0.6170886	0.09736894	1.05E-09
C	A	0.01	1.035666	0.1675451	2.30E-09
T	C	0.01	0.9724379	0.1585878	3.02E-09
G	A	0.01	0.9724379	0.1585878	3.02E-09
C	T	0.01	0.9920855	0.1632726	4.09E-09
A	G	0.02	0.9357953	0.2077087	9.42E-06
C	T	0.02	0.9357953	0.2077087	9.42E-06
C	T	0.02	0.9357953	0.2077087	9.42E-06
G	T	0.02	0.9357953	0.2077087	9.42E-06
C	T	0.02	0.9357953	0.2077087	9.42E-06
G	A	0.02	0.9357953	0.2077087	9.42E-06
G	A	0.02	0.9357953	0.2077087	9.42E-06
C	CCA	0.01	-1.331843	0.2667561	1.02E-06
G	C	0.03	-0.8648521	0.1672423	4.36E-07
T	A	0.03	-0.6998401	0.1468583	2.94E-06
C	A	0.24	0.292935	0.06182681	3.34E-06
A	G	0.02	0.8456057	0.1862742	8.10E-06
GGGGTGTGTGT	G	0.02	0.9844934	0.2156783	7.26E-06

A	T	0.31	-0.2752261	0.05859821	4.02E-06
G	T	0.3	-0.2740148	0.05928586	5.63E-06
G	GT	0.3	-0.2716686	0.05970352	7.73E-06
GC	G	0.3	-0.2894882	0.05981313	2.09E-06
T	G	0.3	-0.2786656	0.05944148	4.18E-06
A	G	0.27	0.2800046	0.06144046	7.49E-06
T	C	0.05	-0.5873386	0.1254851	4.33E-06
T	A	0.05	-0.6123931	0.1262564	1.99E-06
C	A	0.05	-0.5840255	0.128395	7.79E-06
C	T	0.01	-1.380222	0.2532317	1.10E-07
C	T	0.02	-0.9137307	0.2009768	7.86E-06
C	T	0.01	-1.112492	0.2143689	3.99E-07
GACACACACAC	G	0.04	-0.6137196	0.1319419	4.93E-06
AC	A	0.01	-1.034166	0.2287322	8.78E-06
T	A	0.01	-1.034166	0.2287322	8.78E-06
CTGCCTTACATTAT	C	0.16	-0.3505119	0.07653123	6.78E-06
G	A	0.1	0.430108	0.09140564	3.87E-06
A	G	0.06	0.485919	0.108099	9.85E-06
T	G	0.07	0.4655201	0.09984338	4.69E-06
C	G	0.06	-0.4952672	0.1099693	9.49E-06
T	A	0.06	0.5064637	0.1101001	6.20E-06
CT	C	0.2	0.285088	0.06300884	8.66E-06
C	T	0.04	-0.6532922	0.1362909	2.59E-06
C	T	0.01	-1.158784	0.2578673	9.91E-06
T	A	0.19	0.3082798	0.06838896	9.32E-06
C	T	0.32	-0.2614469	0.05757151	8.05E-06
T	TTGTGTG	0.01	-1.152339	0.2330276	1.28E-06
C	T	0.08	-0.4504466	0.09486197	3.18E-06
C	T	0.08	-0.4504466	0.09486197	3.18E-06
C	A	0.09	-0.4302471	0.09374487	6.50E-06
T	TG	0.08	-0.4499397	0.1000161	9.70E-06
TA	T	0.09	-0.4422797	0.09391324	3.80E-06
T	G	0.09	-0.4405186	0.09380863	4.04E-06
G	T	0.09	-0.4405186	0.09380863	4.04E-06
T	C	0.09	-0.4347954	0.09341355	4.86E-06
T	C	0.09	-0.4347954	0.09341355	4.86E-06
G	C	0.09	-0.4405186	0.09380863	4.04E-06
G	C	0.09	-0.4405186	0.09380863	4.04E-06
C	G	0.09	-0.4405186	0.09380863	4.04E-06
GTCTGCTCT	G	0.09	-0.4386041	0.09424044	4.87E-06
A	G	0.09	-0.4347954	0.09341355	4.86E-06
G	A	0.09	-0.4405186	0.09380863	4.04E-06
G	A	0.08	-0.4294609	0.09513939	9.07E-06
A	C	0.09	-0.4348859	0.09357789	5.02E-06
T	C	0.09	-0.4347954	0.09341355	4.86E-06
A	G	0.09	-0.4292151	0.09262772	5.34E-06
A	G	0.11	-0.4004895	0.08706514	6.21E-06
A	T	0.39	-0.2399595	0.0507558	3.50E-06
A	G	0.07	-0.4902195	0.1073015	7.13E-06
G	A	0.35	-0.2653417	0.05692387	4.72E-06

G	GA	0.3	-0.2901538	0.05997154	2.11E-06
C	T	0.31	-0.2781183	0.05985244	5.04E-06
C	T	0.33	0.2625367	0.0564743	4.99E-06
C	T	0.1	-0.409555	0.08954094	6.96E-06
C	G	0.47	0.2509496	0.05537005	8.37E-06
T	A	0.02	0.9477205	0.2040873	5.11E-06
A	G	0.01	-1.142966	0.2512345	7.76E-06
A	T	0.39	-0.2423731	0.05371182	9.13E-06
T	G	0.5	0.2403157	0.05205722	5.77E-06
GCCTGCTCT	G	0.28	0.2822332	0.06214384	8.03E-06
A	AC	0.31	0.2702554	0.05931471	7.53E-06
A	T	0.31	0.2707167	0.05933394	7.32E-06
G	A	0.27	0.2839741	0.06251191	7.99E-06
C	G	0.31	0.2746242	0.05934724	5.49E-06
C	T	0.43	-0.251595	0.05580299	9.28E-06
A	G	0.43	-0.2462954	0.05466849	9.42E-06
T	C	0.44	-0.2581729	0.0542164	2.99E-06
A	C	0.48	-0.2361754	0.05254809	9.88E-06
A	G	0.46	-0.248038	0.05380216	5.93E-06
G	A	0.45	-0.2602698	0.05422928	2.52E-06
C	T	0.45	-0.2602698	0.05422928	2.52E-06
G	A	0.46	-0.2537184	0.05372931	3.58E-06
A	G	0.46	-0.2448808	0.05370875	7.43E-06
C	T	0.02	-0.8724398	0.1908322	7.03E-06
C	T	0.02	-1.057512	0.203455	3.83E-07
G	A	0.12	-0.3791046	0.08181989	5.35E-06
C	T	0.12	-0.3828197	0.08028319	2.91E-06
A	G	0.12	-0.3709859	0.08135223	7.40E-06
A	T	0.02	-1.21548	0.1856429	3.00E-10
G	A	0.02	-1.143421	0.1829062	1.58E-09
T	C	0.02	-1.143421	0.1829062	1.58E-09
AT	A	0.02	-1.102065	0.1802719	3.38E-09
T	C	0.03	-0.8456931	0.1613956	3.12E-07
C	CT	0.19	0.2874988	0.04723045	4.12E-09
A	T	0.02	-0.7342966	0.1218461	7.01E-09
G	A	0.02	-0.7342966	0.1218461	7.01E-09
T	C	0.02	-0.7342966	0.1218461	7.01E-09
AT	A	0.03	-0.7232136	0.1197789	6.60E-09
G	A	0.12	-0.3135893	0.05242492	6.90E-09
C	T	0.12	-0.3155742	0.05141033	2.95E-09
A	G	0.12	-0.3115403	0.05210175	6.98E-09
A	T	0.02	-0.5868429	0.08521856	4.24E-11
G	A	0.02	-0.5692522	0.08380271	7.33E-11
T	C	0.02	-0.5692522	0.08380271	7.33E-11
AT	A	0.02	-0.5462664	0.08262553	2.09E-10
C	T	0.02	-1.253024	0.2063488	5.59E-09
A	T	0.02	-0.6647005	0.1119227	8.72E-09
A	T	0.02	-0.6069316	0.09520318	7.97E-10
G	A	0.02	-0.5673904	0.09380427	4.81E-09
T	C	0.02	-0.5673904	0.09380427	4.81E-09

AT	A	0.02	-0.5620836	0.09231539	3.87E-09
A	T	0.02	-0.5449605	0.09113579	6.97E-09
C	G	0.01	-0.8705911	0.1457117	8.99E-09
A	G	0.01	-1.088211	0.1734832	1.59E-09
A	T	0.02	-0.6357196	0.1073498	9.77E-09
A	T	0.02	-0.4207654	0.07015696	6.38E-09
A	T	0.02	-0.6447756	0.1061328	4.19E-09
G	A	0.02	-0.6221586	0.1043917	7.80E-09
T	C	0.02	-0.6221586	0.1043917	7.80E-09
AT	A	0.02	-0.608604	0.1028006	9.64E-09
A	T	0.02	-0.5455748	0.08822029	2.31E-09
G	A	0.02	-0.527731	0.08670954	3.94E-09
T	C	0.02	-0.527731	0.08670954	3.94E-09
A	T	0.02	-0.638052	0.1050717	4.83E-09
A	T	0.02	-0.5471634	0.08656277	1.18E-09
G	A	0.02	-0.5224175	0.08502521	3.09E-09
T	C	0.02	-0.5224175	0.08502521	3.09E-09
AT	A	0.02	-0.4960835	0.08368223	9.84E-09
A	T	0.02	-0.6876466	0.1040145	2.09E-10
G	A	0.02	-0.6494844	0.1025293	1.00E-09
T	C	0.02	-0.6494844	0.1025293	1.00E-09
AT	A	0.02	-0.63752	0.10098	1.13E-09
A	T	0.02	-0.6417081	0.1052628	3.71E-09
A	T	0.02	-0.6393407	0.1016247	1.27E-09
G	A	0.02	-0.6178522	0.09982627	2.23E-09
T	C	0.02	-0.6178522	0.09982627	2.23E-09
AT	A	0.02	-0.5984972	0.09831411	3.89E-09
A	T	0.02	-0.5864986	0.0969466	4.82E-09
G	A	0.02	-0.5771713	0.09518409	4.46E-09
T	C	0.02	-0.5771713	0.09518409	4.46E-09
A	T	0.02	-0.7406041	0.1099935	1.03E-10
G	A	0.02	-0.6995811	0.1083104	4.96E-10
T	C	0.02	-0.6995811	0.1083104	4.96E-10
AT	A	0.02	-0.6960959	0.1065475	3.26E-10
C	T	0.02	-0.7878664	0.1736538	8.17E-06
C	CT	0.05	-0.5881821	0.1197787	1.50E-06
C	T	0.05	-0.5881821	0.1197787	1.50E-06
G	T	0.05	-0.5717109	0.1196192	2.75E-06
C	T	0.03	0.6839047	0.1504571	7.87E-06
A	C	0.07	0.4744645	0.1033117	6.39E-06
G	A	0.07	0.467519	0.1031008	8.26E-06
C	A	0.12	0.3771868	0.08229322	6.65E-06
G	A	0.12	0.3771868	0.08229322	6.65E-06
G	C	0.08	0.457139	0.09991408	6.90E-06
A	G	0.33	0.267313	0.05787599	5.69E-06
A	G	0.31	0.2662731	0.05844525	7.52E-06
T	C	0.4	-0.2499502	0.05514281	8.32E-06
C	T	0.1	-0.4187508	0.09310265	9.71E-06
G	A	0.1	-0.4271237	0.0942986	8.44E-06
T	C	0.1	-0.424489	0.09222669	6.11E-06

T	C	0.1	-0.4303036	0.09248924	4.89E-06
A	G	0.1	-0.4303036	0.09248924	4.89E-06
G	A	0.1	-0.4389194	0.0927875	3.44E-06
A	G	0.1	-0.4303036	0.09248924	4.89E-06
G	C	0.1	-0.4352646	0.09259236	3.93E-06
C	A	0.1	-0.4009578	0.08914608	9.70E-06
T	C	0.1	-0.4249588	0.09146253	5.03E-06
A	G	0.1	-0.4187609	0.09000293	4.88E-06
A	G	0.02	0.9847323	0.2118615	4.99E-06
T	C	0.07	0.4616012	0.1027622	9.96E-06
A	G	0.14	-0.3900428	0.0815707	2.72E-06
C	T	0.14	-0.3943248	0.08164105	2.18E-06
T	C	0.14	-0.3850408	0.08146523	3.50E-06
G	A	0.13	-0.4135675	0.08172307	7.38E-07
G	T	0.14	-0.3892958	0.08153542	2.81E-06
G	C	0.03	-0.6933839	0.1531033	8.47E-06
C	G	0.14	-0.3852293	0.08138686	3.39E-06
T	C	0.14	-0.3892958	0.08153542	2.81E-06
C	T	0.14	-0.3892958	0.08153542	2.81E-06
T	C	0.14	-0.3892958	0.08153542	2.81E-06
T	C	0.14	-0.3892958	0.08153542	2.81E-06
TG	T	0.02	-0.7924888	0.1748736	8.36E-06
G	A	0.01	1.109957	0.2294804	2.11E-06
C	T	0.01	1.101956	0.2296234	2.51E-06
T	A	0.01	1.238808	0.2530236	1.60E-06
G	A	0.01	1.238808	0.2530236	1.60E-06
C	T	0.01	1.238808	0.2530236	1.60E-06
T	C	0.01	1.238808	0.2530236	1.60E-06
A	C	0.01	1.238808	0.2530236	1.60E-06
C	A	0.01	1.169031	0.2449342	2.83E-06
T	A	0.01	1.169031	0.2449342	2.83E-06
C	A	0.01	1.169031	0.2449342	2.83E-06
C	T	0.01	1.169031	0.2449342	2.83E-06
G	GTA	0.01	1.169031	0.2449342	2.83E-06
C	A	0.01	1.113173	0.2331695	2.82E-06
G	C	0.01	1.113173	0.2331695	2.82E-06
G	A	0.01	1.113173	0.2331695	2.82E-06
G	C	0.01	1.113173	0.2331695	2.82E-06
G	C	0.01	1.113173	0.2331695	2.82E-06
C	T	0.01	1.113173	0.2331695	2.82E-06
A	T	0.01	1.113173	0.2331695	2.82E-06
CTT	C	0.07	-0.4265201	0.08813247	2.09E-06
C	G	0.02	0.849899	0.1835631	5.41E-06
A	G	0.02	1.0351	0.2234693	5.36E-06
T	C	0.05	-0.5855291	0.1253351	4.49E-06
G	A	0.05	-0.5998095	0.1252009	2.61E-06
A	T	0.05	-0.5998095	0.1252009	2.61E-06
G	T	0.05	-0.6004368	0.1261337	3.00E-06

G	A	0.05	-0.6004368	0.1261337	3.00E-06
G	A	0.05	-0.6207216	0.1274889	1.82E-06
C	T	0.05	-0.6004368	0.1261337	3.00E-06
C	T	0.05	-0.6004368	0.1261337	3.00E-06
T	C	0.05	-0.5315646	0.1180499	9.49E-06
C	CA	0.01	-1.095238	0.2329882	3.93E-06
G	A	0.23	-0.3017881	0.06640383	7.90E-06
A	G	0.04	-0.625381	0.1342973	4.80E-06
A	G	0.01	1.254358	0.2708857	5.39E-06
C	G	0.01	1.125724	0.2416123	4.74E-06
C	T	0.01	1.303591	0.2555775	6.09E-07
A	AAG	0.01	1.089066	0.237246	6.45E-06
C	T	0.3	0.2756208	0.05995955	6.27E-06
GC	G	0.3	0.2834367	0.0600182	3.57E-06
C	G	0.07	0.4700631	0.09873624	3.00E-06
TG	T	0.01	1.081857	0.2361847	6.74E-06
A	G	0.01	1.081857	0.2361847	6.74E-06
T	TACACACACAC	0.01	-1.101632	0.237706	5.30E-06
A	G	0.04	-0.6983203	0.148198	3.74E-06
A	G	0.04	-0.6864588	0.1483561	5.48E-06
C	T	0.04	-0.6864588	0.1483561	5.48E-06
T	C	0.27	0.2689567	0.05952697	8.87E-06
T	C	0.27	0.2714329	0.05898323	6.13E-06
G	A	0.27	0.2714379	0.05888542	5.92E-06
T	C	0.26	0.2856347	0.05930916	2.32E-06
G	A	0.27	0.2726383	0.05870089	5.07E-06
G	T	0.27	0.2753858	0.05866619	4.05E-06
G	A	0.26	0.2782394	0.05892898	3.58E-06
A	T	0.27	0.2737475	0.05880796	4.84E-06
C	T	0.27	0.2928736	0.05894096	1.14E-06
C	A	0.27	0.2840923	0.05879993	2.16E-06
A	G	0.27	0.2740698	0.05839277	4.06E-06
G	A	0.27	0.2773054	0.05853269	3.33E-06
A	G	0.28	0.273272	0.05750839	3.12E-06
TAA	T	0.27	0.2798096	0.05901872	3.28E-06
C	T	0.27	0.2761014	0.05891803	4.20E-06
A	C	0.27	0.2726681	0.05879901	5.23E-06
A	G	0.27	0.2680845	0.05890647	7.68E-06
A	G	0.27	0.2726681	0.05879901	5.23E-06
C	G	0.28	0.2653589	0.05848887	8.17E-06
T	TG	0.15	-0.4256101	0.07839942	1.21E-07
C	CA	0.12	0.3962808	0.08740667	8.29E-06
G	C	0.33	0.2554719	0.05537247	5.82E-06
C	T	0.03	0.7594011	0.1674876	8.28E-06
G	A	0.04	0.6429172	0.1409366	7.32E-06
A	G	0.02	-0.9297495	0.2054893	8.63E-06
:TAGTCCTGGTTCTGG	C	0.02	-0.9297495	0.2054893	8.63E-06
C	T	0.02	-0.9297495	0.2054893	8.63E-06
A	AT	0.02	-0.9996882	0.2137638	4.39E-06
T	C	0.02	-0.9589667	0.2099761	7.16E-06

T	C	0.02	-1.012489	0.2027907	1.02E-06
T	A	0.01	1.091038	0.2314618	3.71E-06
G	A	0.01	1.091038	0.2314618	3.71E-06
G	A	0.12	0.3806814	0.08177771	4.83E-06
C	T	0.12	0.3871097	0.0801913	2.21E-06
A	G	0.12	0.3926736	0.08117528	2.11E-06
G	A	0.33	0.2769732	0.05686248	1.80E-06
AG	A	0.29	0.2888602	0.05809689	1.12E-06
G	T	0.29	0.2834835	0.05816594	1.78E-06
G	A	0.33	0.2694217	0.05665921	3.07E-06
T	C	0.33	0.2674006	0.05671811	3.70E-06
C	A	0.29	0.2931294	0.0581089	7.97E-07
A	G	0.29	0.2893298	0.05816465	1.11E-06
TA	T	0.28	0.29818	0.05812608	5.29E-07
C	T	0.33	0.2694217	0.05665921	3.07E-06
A	G	0.33	0.2694217	0.05665921	3.07E-06
C	T	0.33	0.2694217	0.05665921	3.07E-06
AC	A	0.33	0.2659284	0.05666392	4.07E-06
C	T	0.29	0.2893298	0.05816465	1.11E-06
A	G	0.36	0.2530856	0.05418563	4.51E-06
G	T	0.34	0.2446201	0.05397284	8.34E-06
C	T	0.38	0.2467871	0.05433795	8.00E-06
A	G	0.38	0.2458795	0.05437263	8.72E-06
C	T	0.38	0.2458795	0.05437263	8.72E-06
A	T	0.38	0.2458795	0.05437263	8.72E-06
C	A	0.38	0.2463522	0.0545055	8.81E-06
C	G	0.29	0.2872363	0.05816286	1.32E-06
T	C	0.38	0.2504242	0.05450355	6.33E-06
A	C	0.38	0.2486124	0.05443771	7.16E-06
G	A	0.38	0.2486124	0.05443771	7.16E-06
G	T	0.38	0.2483645	0.05434703	7.06E-06
C	A	0.37	0.2485474	0.05433428	6.93E-06
C	T	0.35	0.2594751	0.0539895	2.43E-06
C	T	0.37	0.253143	0.05420814	4.52E-06
T	C	0.37	0.2454157	0.05437678	9.07E-06
C	T	0.29	0.2832181	0.05818397	1.83E-06
C	T	0.29	0.2832181	0.05818397	1.83E-06
T	C	0.41	0.2479884	0.05419137	6.87E-06
A	G	0.29	0.2786086	0.05820846	2.66E-06
G	C	0.29	0.2786086	0.05820846	2.66E-06
G	C	0.06	0.587067	0.1142175	5.04E-07
C	G	0.38	-0.2346401	0.05220317	9.83E-06
C	T	0.01	1.316918	0.2103365	1.57E-09
G	A	0.12	0.4088151	0.06856489	7.95E-09
C	T	0.12	0.4051059	0.06730269	5.87E-09
A	G	0.12	0.4108788	0.06821129	5.73E-09
TG	T	0.02	-0.8337399	0.1399082	7.80E-09
C	T	0.12	0.3273356	0.05519719	9.24E-09
A	G	0.12	0.3358904	0.05590671	6.09E-09
G	A	0.12	0.3492418	0.05897457	9.46E-09

C	T	0.12	0.3460215	0.05794306	7.24E-09
A	G	0.12	0.3502292	0.05858546	7.00E-09
G	C	0.02	0.9786864	0.2067063	3.37E-06
C	G	0.01	1.199613	0.2497062	2.46E-06
G	A	0.07	-0.4603514	0.1023643	9.73E-06
C	T	0.07	-0.4603514	0.1023643	9.73E-06
C	G	0.01	1.125873	0.2458035	6.75E-06
A	C	0.08	-0.4120012	0.09072652	8.02E-06
G	A	0.46	-0.2225867	0.04947906	9.67E-06
T	C	0.46	-0.2266562	0.04893665	5.37E-06
C	T	0.46	-0.221765	0.04879076	7.88E-06
G	A	0.46	-0.2248461	0.04970017	8.65E-06
G	A	0.46	-0.2232182	0.04945075	9.04E-06
G	GCACA	0.02	0.914227	0.201402	8.09E-06
G	A	0.41	0.2240851	0.04969164	9.22E-06
T	C	0.41	0.2312972	0.04969855	4.86E-06
CAGGTGGAAAGAGAC	G	0.02	0.9694364	0.2033502	2.91E-06
T	G	0.02	0.9694364	0.2033502	2.91E-06
A	C	0.13	-0.3837031	0.07613553	8.15E-07
A	C	0.02	-0.8546846	0.1828083	4.41E-06
G	A	0.5	-0.2232112	0.04935693	8.71E-06
T	G	0.18	0.3108176	0.06694608	5.11E-06
A	G	0.05	-0.5893817	0.1170179	8.27E-07
A	G	0.07	-0.4478445	0.09838493	7.65E-06
A	AC	0.07	-0.4600682	0.1012153	7.87E-06
T	A	0.08	-0.4473852	0.09193996	1.84E-06
T	C	0.09	-0.4213172	0.087476	2.32E-06
C	T	0.08	-0.4156587	0.08900355	4.52E-06
G	A	0.02	-0.860727	0.1856466	5.26E-06
G	A	0.02	0.8217713	0.1719205	2.74E-06
T	C	0.02	0.8217713	0.1719205	2.74E-06
G	C	0.02	0.8906635	0.1954986	7.52E-06
A	G	0.02	0.8906635	0.1954986	7.52E-06
G	A	0.02	0.8906635	0.1954986	7.52E-06
C	T	0.02	0.8906635	0.1954986	7.52E-06
T	G	0.02	0.8906635	0.1954986	7.52E-06
A	G	0.02	0.8906635	0.1954986	7.52E-06
C	A	0.02	0.8906635	0.1954986	7.52E-06
T	C	0.02	0.8906635	0.1954986	7.52E-06
T	C	0.02	0.8906635	0.1954986	7.52E-06
G	C	0.02	0.8906635	0.1954986	7.52E-06
G	A	0.02	0.8906635	0.1954986	7.52E-06
C	G	0.02	0.8906635	0.1954986	7.52E-06
A	G	0.02	0.8906635	0.1954986	7.52E-06
T	C	0.02	0.9191252	0.2029119	8.44E-06
T	C	0.02	0.9191252	0.2029119	8.44E-06
G	T	0.02	0.8254973	0.1741241	3.28E-06
C	T	0.02	0.763702	0.1698403	9.75E-06
A	G	0.02	0.763702	0.1698403	9.75E-06
G	A	0.02	0.8138753	0.1721105	3.46E-06

G	A	0.02	1.032973	0.19534	2.45E-07
T	C	0.02	1.032973	0.19534	2.45E-07
T	C	0.02	1.032973	0.19534	2.45E-07
C	T	0.02	0.9672472	0.1887859	5.46E-07
G	GT	0.02	0.9672472	0.1887859	5.46E-07
TCA	T	0.02	1.031867	0.1921505	1.63E-07
C	T	0.02	1.031867	0.1921505	1.63E-07
G	T	0.01	1.122009	0.2398964	4.38E-06
G	T	0.01	1.327412	0.246222	1.47E-07
C	T	0.01	1.327412	0.246222	1.47E-07
G	C	0.02	0.8413601	0.1862374	8.89E-06
C	T	0.09	0.4058729	0.08786564	5.67E-06
C	T	0.05	0.5323363	0.1185208	9.97E-06
C	T	0.05	0.5323363	0.1185208	9.97E-06
T	C	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4299881	0.09493339	8.45E-06
C	G	0.08	0.4263168	0.09459241	9.33E-06
G	T	0.08	0.4263168	0.09459241	9.33E-06
A	G	0.08	0.4263168	0.09459241	9.33E-06
C	A	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
C	G	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
A	G	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
A	G	0.08	0.4263168	0.09459241	9.33E-06
A	C	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
T	C	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
G	T	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
G	A	0.08	0.4263168	0.09459241	9.33E-06
T	C	0.08	0.4263168	0.09459241	9.33E-06
C	T	0.08	0.4263168	0.09459241	9.33E-06
A	C	0.08	0.4305194	0.09280567	5.20E-06
A	T	0.08	0.4531826	0.09027341	8.95E-07
C	A	0.08	0.4247264	0.09237384	6.24E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06

C	A	0.08	0.4395102	0.09484966	5.32E-06
C	G	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.09	0.432268	0.0891399	1.99E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06
G	A	0.08	0.4242589	0.09317157	7.60E-06
G	T	0.09	0.4193917	0.08812379	3.02E-06
C	T	0.09	0.3979232	0.08544489	4.79E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
C	T	0.08	0.4531418	0.09515576	2.98E-06
C	T	0.08	0.4395102	0.09484966	5.32E-06
AC	A	0.09	0.391669	0.08552101	6.76E-06
A	T	0.08	0.4429949	0.09518203	4.85E-06
G	T	0.08	0.4429949	0.09518203	4.85E-06
T	C	0.08	0.4395102	0.09484966	5.32E-06
C	T	0.08	0.455137	0.09180773	1.20E-06
C	T	0.09	0.432268	0.0891399	1.99E-06
C	T	0.08	0.4395102	0.09484966	5.32E-06
G	A	0.08	0.4434755	0.09322457	3.05E-06
C	T	0.08	0.4304687	0.093309	5.82E-06
T	C	0.08	0.4244162	0.09325379	7.67E-06
ATGAAT	A	0.1	0.3612563	0.07738034	4.55E-06
C	T	0.09	0.432268	0.0891399	1.99E-06
A	ATTT	0.08	0.4264733	0.09069546	3.91E-06
T	G	0.08	0.4395102	0.09484966	5.32E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06
G	C	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.07	0.4608917	0.09561423	2.28E-06
A	G	0.08	0.4536867	0.09539808	3.07E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.09	0.432268	0.0891399	1.99E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06
G	C	0.07	0.4605509	0.0998301	5.83E-06
G	T	0.07	0.5118207	0.09818933	3.54E-07
C	T	0.07	0.4564225	0.09554027	2.78E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
T	C	0.08	0.4395102	0.09484966	5.32E-06
G	A	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.08	0.4395102	0.09484966	5.32E-06
T	C	0.08	0.4395102	0.09484966	5.32E-06
T	C	0.08	0.4502438	0.09515866	3.42E-06
T	C	0.08	0.4395102	0.09484966	5.32E-06
C	A	0.08	0.4395102	0.09484966	5.32E-06
G	T	0.08	0.4395102	0.09484966	5.32E-06
C	G	0.08	0.4395102	0.09484966	5.32E-06
T	C	0.08	0.4395102	0.09484966	5.32E-06
C	T	0.08	0.4395102	0.09484966	5.32E-06
A	G	0.08	0.4561543	0.09517633	2.59E-06

A	C	0.08	0.4561543	0.09517633	2.59E-06
CTT	C	0.08	0.4341568	0.09573317	8.24E-06
C	T	0.08	0.4561543	0.09517633	2.59E-06
C	A	0.08	0.4853545	0.09130812	2.14E-07
A	G	0.09	0.4467531	0.08938529	9.94E-07
T	C	0.09	0.4467531	0.08938529	9.94E-07
A	G	0.1	0.3844445	0.08435324	7.46E-06
T	A	0.08	0.4561543	0.09517633	2.59E-06
A	G	0.09	0.4467531	0.08938529	9.94E-07
C	G	0.08	0.4561543	0.09517633	2.59E-06
C	T	0.08	0.4561543	0.09517633	2.59E-06
T	TA	0.08	0.4341568	0.09573317	8.24E-06
C	T	0.08	0.4561543	0.09517633	2.59E-06
G	A	0.08	0.4561543	0.09517633	2.59E-06
C	G	0.09	0.4438514	0.08940856	1.17E-06
A	G	0.09	0.4409551	0.09001247	1.58E-06
G	T	0.03	0.6991954	0.1524045	6.53E-06
G	T	0.23	0.2728878	0.06057552	9.41E-06
G	A	0.03	0.7242473	0.1489765	1.88E-06
G	A	0.03	0.7305623	0.1523844	2.57E-06
G	T	0.03	0.7305623	0.1523844	2.57E-06
G	A	0.03	0.7305623	0.1523844	2.57E-06
C	T	0.01	1.159941	0.2520797	6.14E-06
C	T	0.01	1.081389	0.2316465	4.56E-06
C	‡TACATGCAATACATA	0.01	1.116074	0.2423558	6.04E-06
T	G	0.01	1.086645	0.2296124	3.41E-06
T	G	0.01	1.086645	0.2296124	3.41E-06
C	T	0.01	1.128365	0.2368517	2.95E-06
A	C	0.01	1.062607	0.2349399	8.69E-06
A	G	0.01	0.9682884	0.2142238	8.80E-06
G	A	0.01	1.150786	0.2487959	5.52E-06
C	CTG	0.05	0.5578215	0.1229498	8.17E-06
AC	A	0.15	-0.3150274	0.06989538	9.31E-06
A	C	0.02	0.8191081	0.179575	7.34E-06
G	C	0.02	0.8191081	0.179575	7.34E-06
T	G	0.01	1.013406	0.225002	9.44E-06
T	C	0.01	1.013406	0.225002	9.44E-06
TACAC	T	0.01	1.013406	0.225002	9.44E-06
C	T	0.04	0.552567	0.1228994	9.78E-06
C	T	0.12	-0.36796	0.08069058	7.38E-06
G	A	0.11	-0.3733408	0.08273526	9.10E-06
A	G	0.12	-0.3629869	0.08071099	9.72E-06
A	AGT	0.02	1.016411	0.2075953	1.60E-06
G	A	0.39	-0.2354058	0.0514086	6.78E-06
C	CTT	0.1	0.3756749	0.08046887	4.55E-06
G	A	0.01	1.350623	0.2458262	8.72E-08
AATGG	A	0.01	0.9673249	0.2076279	4.75E-06
G	A	0.02	0.8364979	0.1839645	7.82E-06
G	T	0.02	-0.9353286	0.2066915	8.60E-06
ATTGT	A	0.28	-0.2538265	0.05596496	8.23E-06

G	A	0.02	0.7177398	0.1576432	7.62E-06
G	A	0.01	1.149565	0.2464533	4.63E-06
C	A	0.02	0.7834561	0.1700213	5.97E-06
G	A	0.02	0.7576954	0.1660711	7.30E-06
T	A	0.07	-0.4982493	0.09746716	5.77E-07
C	T	0.01	1.170878	0.2474403	3.42E-06
A	C	0.04	0.5918541	0.1279004	5.47E-06
G	T	0.04	0.5918541	0.1279004	5.47E-06
A	T	0.04	0.6087508	0.1268221	2.50E-06
C	A	0.01	0.9686761	0.2123199	7.31E-06
G	GC	0.04	-0.586969	0.1304225	9.59E-06
A	G	0.22	0.2774341	0.06067368	6.98E-06
A	G	0.07	0.4635712	0.1017036	7.45E-06
A	G	0.06	0.4820085	0.1028707	4.21E-06
C	G	0.06	0.4765062	0.1032851	5.82E-06
A	G	0.07	0.4613925	0.1021183	8.87E-06
G	GAAAAC	0.03	0.6594389	0.1460149	8.95E-06
A	G	0.04	0.5933054	0.1303947	7.71E-06
G	A	0.02	0.9537527	0.204391	4.60E-06
C	CGTGTGTGTGTGT	0.01	1.128688	0.2192652	4.86E-07
C	A	0.01	0.9946222	0.2197328	8.56E-06
C	T	0.44	-0.2220303	0.04906262	8.60E-06
C	G	0.01	1.14942	0.247954	5.27E-06
C	T	0.01	1.14942	0.247954	5.27E-06
G	A	0.01	1.14942	0.247954	5.27E-06
T	TGTGTGTGTGTGTGA	0.03	0.3625863	0.06043279	6.33E-09
T	C	0.23	-0.1887347	0.02869856	2.52E-10
T	C	0.23	-0.1826093	0.02851583	6.72E-10
A	G	0.24	-0.1669738	0.02777573	5.84E-09
T	C	0.25	-0.1731898	0.02700091	6.34E-10
C	T	0.23	-0.1823338	0.02875876	9.61E-10
A	G	0.23	-0.1754072	0.02858166	2.95E-09
C	G	0.23	-0.1770726	0.02841145	1.75E-09
A	G	0.02	1.13032	0.1723096	3.70E-10
T	TGTGTGTGTGTGTGA	0.03	0.3959713	0.06188408	6.95E-10
G	A	0.05	-0.5294765	0.08056841	2.57E-10
T	TACACAC	0.04	0.291754	0.04934353	9.93E-09
A	C	0.5	0.1305788	0.0219208	7.81E-09
A	C	0.5	-0.1300883	0.02191601	8.75E-09
G	A	0.5	-0.1396942	0.02180784	6.63E-10
A	T	0.5	0.1329514	0.02195638	4.60E-09
G	A	0.5	0.1309519	0.021937	7.30E-09
T	G	0.5	0.1314946	0.02183462	5.49E-09
C	T	0.49	-0.1365048	0.0219414	1.85E-09
T	G	0.5	0.1301732	0.02190402	8.42E-09
G	T	0.01	0.9015325	0.1417437	8.86E-10
A	G	0.05	-0.3438019	0.0569727	5.13E-09
A	G	0.38	0.1205346	0.02613711	5.86E-06
T	C	0.16	0.1655757	0.03543018	4.45E-06
G	T	0.05	-0.2915121	0.06136782	3.14E-06

T	C	0.05	-0.2915121	0.06136782	3.14E-06
T	G	0.05	-0.2876496	0.06065272	3.25E-06
A	G	0.05	-0.2915121	0.06136782	3.14E-06
C	T	0.05	-0.2915121	0.06136782	3.14E-06
A	G	0.05	-0.2915121	0.06136782	3.14E-06
G	A	0.05	-0.2915121	0.06136782	3.14E-06
A	G	0.05	-0.2915945	0.06136631	3.12E-06
A	G	0.27	0.1256441	0.02797281	9.96E-06
C	G	0.27	0.1256441	0.02797281	9.96E-06
A	G	0.27	0.1256441	0.02797281	9.96E-06
C	G	0.27	0.1256441	0.02797281	9.96E-06
C	T	0.27	0.1256441	0.02797281	9.96E-06
G	C	0.27	0.1256441	0.02797281	9.96E-06
G	A	0.27	0.1256441	0.02797281	9.96E-06
C	T	0.26	0.1275542	0.02796016	7.31E-06
A	C	0.26	0.1306765	0.02804356	4.73E-06
A	G	0.26	0.1274635	0.027956	7.39E-06
A	G	0.27	0.1256441	0.02797281	9.96E-06
G	A	0.26	0.1277591	0.02796599	7.11E-06
T	G	0.09	0.2203907	0.04437765	1.15E-06
A	G	0.06	0.2421138	0.05320865	7.70E-06
A	C	0.44	-0.1179002	0.02565323	6.29E-06
T	A	0.44	-0.1190046	0.02603907	7.05E-06
A	T	0.06	-0.2660884	0.05485244	1.98E-06
T	G	0.06	-0.2885172	0.05412136	1.98E-07
C	A	0.06	-0.2834919	0.0544092	3.58E-07
C	A	0.06	-0.2834919	0.0544092	3.58E-07
GCACA	G	0.01	-0.5198713	0.1125734	5.70E-06
G	T	0.31	-0.1230803	0.02684139	6.59E-06
G	A	0.3	-0.1244479	0.02738292	7.89E-06
A	C	0.3	-0.1268196	0.02716829	4.56E-06
G	A	0.07	-0.2411141	0.05161395	4.48E-06
CA	C	0.16	-0.1626952	0.03553264	6.79E-06
C	G	0.02	-0.4749348	0.1036618	6.70E-06
T	TTGTGTG	0.17	-0.1721855	0.03698584	4.82E-06
A	C	0.28	-0.1343831	0.02840301	3.42E-06
T	C	0.28	-0.1327051	0.02859401	5.14E-06
T	C	0.28	-0.1311548	0.02849495	6.10E-06
T	C	0.28	-0.1343831	0.02840301	3.42E-06
T	C	0.28	-0.1343831	0.02840301	3.42E-06
A	AAAAC	0.27	-0.1382907	0.02908467	3.08E-06
A	AATCT	0.27	-0.1342186	0.02900967	5.48E-06
C	CAA	0.28	-0.13061	0.02888719	8.74E-06
A	T	0.28	-0.1310774	0.02867404	7.02E-06
C	T	0.28	-0.1303477	0.02881286	8.64E-06
C	T	0.28	-0.1324746	0.02866065	5.59E-06
A	G	0.42	0.1098967	0.02400535	6.81E-06
A	C	0.18	0.1671899	0.0365017	6.74E-06
C	G	0.02	-0.4521175	0.09731394	5.03E-06
T	A	0.33	-0.1305978	0.02703127	2.16E-06

C	T	0.46	-0.1282759	0.02497038	5.10E-07
CAG	C	0.48	0.120969	0.02551128	3.26E-06
A	G	0.45	0.116164	0.02442358	3.05E-06
CGCTT	C	0.04	-0.2991323	0.0656771	7.55E-06
G	A	0.17	0.1511065	0.03206762	3.73E-06
TCGG	T	0.2	0.1581269	0.03302814	2.65E-06
A	G	0.21	0.1484125	0.032602	7.63E-06
T	C	0.09	0.1860102	0.04102075	8.25E-06
G	A	0.18	-0.1584078	0.03289826	2.33E-06
C	T	0.18	-0.1584078	0.03289826	2.33E-06
G	A	0.18	-0.1580905	0.0328605	2.38E-06
C	T	0.18	-0.1561454	0.03289178	3.18E-06
G	A	0.18	-0.1548497	0.03275424	3.48E-06
C	T	0.18	-0.1531034	0.03273234	4.37E-06
G	A	0.18	-0.1584078	0.03289826	2.33E-06
G	A	0.18	-0.1584078	0.03289826	2.33E-06
C	T	0.18	-0.1531034	0.03273234	4.37E-06
G	T	0.18	-0.1531034	0.03273234	4.37E-06
C	A	0.06	-0.2458589	0.05466154	9.69E-06
C	A	0.31	-0.1354313	0.02920082	5.21E-06
AGAT	A	0.02	-0.3965965	0.08351809	3.16E-06
G	A	0.05	0.2792117	0.06146183	7.95E-06
T	TTTTTATTTTATTTTA	0.04	0.2909426	0.06421417	8.39E-06
C	T	0.08	0.2131001	0.04527672	3.83E-06
G	T	0.35	0.1225212	0.02722443	9.58E-06
A	G	0.33	-0.1278998	0.02824559	8.49E-06
T	A	0.04	0.3288329	0.07148395	6.17E-06
T	C	0.28	0.1313628	0.02806487	4.30E-06
CGT	C	0.14	-0.1909255	0.04101488	4.83E-06
G	A	0.26	-0.1352471	0.03005047	9.57E-06
GGT	G	0.06	0.2611145	0.05778956	8.86E-06
G	A	0.31	0.1302284	0.02797806	4.84E-06
GTT	G	0.02	-0.3867147	0.08503903	7.79E-06
A	G	0.43	0.133271	0.02505695	2.10E-07
G	A	0.33	-0.1307589	0.02836829	5.92E-06
A	G	0.33	-0.1327993	0.0283749	4.31E-06
A	T	0.33	-0.1298525	0.02844638	7.22E-06
A	G	0.34	-0.1393516	0.02850037	1.65E-06
T	C	0.34	-0.1402108	0.0284113	1.34E-06
A	G	0.33	-0.1349982	0.02846225	3.24E-06
T	C	0.47	-0.1227825	0.02682246	6.82E-06
G	T	0.07	0.2318153	0.05126262	8.71E-06
A	G	0.07	0.2359845	0.04974184	3.23E-06
G	T	0.08	0.2485387	0.047525	3.25E-07
C	T	0.08	0.2585306	0.04707441	8.81E-08
G	A	0.07	0.2551311	0.05142743	1.18E-06
G	A	0.07	0.2591955	0.05189739	1.01E-06
G	A	0.47	-0.0993794	0.02185043	7.77E-06
G	A	0.47	-0.1018142	0.02191312	5.02E-06
C	T	0.46	-0.1020152	0.0220305	5.39E-06

C	T	0.43	-0.1008383	0.0219252	6.20E-06
G	A	0.4	-0.1013527	0.02216898	7.00E-06
C	T	0.41	-0.0996703	0.02216472	9.74E-06
G	A	0.41	-0.101299	0.02202277	6.18E-06
G	A	0.4	-0.101256	0.02214628	6.99E-06
A	G	0.01	-0.4764311	0.1001511	3.04E-06
T	G	0.01	-0.5084515	0.111897	7.92E-06
G	A	0.01	-0.4751836	0.1040262	7.12E-06
A	C	0.21	0.1315849	0.02805162	4.11E-06
A	AT	0.12	-0.1710076	0.03600523	3.15E-06
G	A	0.02	-0.4209426	0.08735744	2.29E-06
G	C	0.5	0.1056897	0.02307111	6.72E-06
A	G	0.28	-0.1328901	0.02560438	3.95E-07
G	A	0.27	-0.1292827	0.025997	1.12E-06
T	C	0.02	-0.4108132	0.09065977	8.37E-06
A	T	0.02	-0.4097199	0.08395958	1.73E-06
C	T	0.02	-0.4470392	0.08113246	8.03E-08
A	G	0.02	-0.5218385	0.09123655	2.73E-08
TTG	T	0.06	-0.2260862	0.04966847	7.64E-06
C	G	0.02	-0.417872	0.09191238	7.83E-06
C	T	0.02	-0.4107583	0.08874062	5.43E-06
C	A	0.01	-0.4722673	0.103456	7.22E-06
G	GA	0.03	-0.3017354	0.06591309	6.82E-06
G	C	0.04	-0.2756323	0.06003408	6.42E-06
T	G	0.04	-0.3010568	0.06137629	1.54E-06
T	C	0.04	-0.3010568	0.06137629	1.54E-06
C	T	0.04	-0.3010568	0.06137629	1.54E-06
G	A	0.04	-0.3010568	0.06137629	1.54E-06
T	TGAATG	0.04	-0.3010568	0.06137629	1.54E-06
T	G	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
C	CTTAAA	0.03	-0.2922913	0.06414476	7.48E-06
G	T	0.04	-0.3010568	0.06137629	1.54E-06
G	A	0.04	-0.3010568	0.06137629	1.54E-06
T	C	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
G	A	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
G	T	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.03	-0.2903846	0.06200776	4.26E-06
T	A	0.04	-0.3010568	0.06137629	1.54E-06
T	C	0.03	-0.3128607	0.06287066	1.10E-06
G	T	0.03	-0.3256101	0.063387	5.11E-07
C	T	0.03	-0.2903964	0.06188835	4.08E-06
C	CCCG	0.04	-0.3010568	0.06137629	1.54E-06
T	C	0.04	-0.3010568	0.06137629	1.54E-06
C	G	0.04	-0.3010568	0.06137629	1.54E-06
ACAG	A	0.04	-0.3010568	0.06137629	1.54E-06

G	A	0.04	-0.3010568	0.06137629	1.54E-06
G	A	0.04	-0.2995589	0.05954557	8.50E-07
A	G	0.04	-0.3010568	0.06137629	1.54E-06
T	G	0.04	-0.3010568	0.06137629	1.54E-06
C	A	0.04	-0.3010568	0.06137629	1.54E-06
T	C	0.03	-0.290123	0.06201137	4.34E-06
C	G	0.04	-0.3010568	0.06137629	1.54E-06
G	A	0.04	-0.3010568	0.06137629	1.54E-06
G	C	0.04	-0.3010568	0.06137629	1.54E-06
C	CAGA	0.04	-0.3010568	0.06137629	1.54E-06
GTTATA	G	0.04	-0.2756323	0.06003408	6.42E-06
A	G	0.04	-0.3010568	0.06137629	1.54E-06
A	G	0.04	-0.2679645	0.05820761	6.08E-06
G	CTAGTGAATTCATTCT	0.02	-0.3901959	0.08302837	3.95E-06
G	A	0.01	-0.5009392	0.1055725	3.22E-06
C	T	0.01	-0.5009392	0.1055725	3.22E-06
G	A	0.03	-0.296943	0.06559212	8.53E-06
T	C	0.03	-0.283721	0.06264476	8.45E-06
C	T	0.06	-0.2117425	0.04696634	9.26E-06
A	G	0.49	0.1041585	0.02314301	9.57E-06
C	T	0.04	-0.2715253	0.05941845	7.06E-06
A	AGT	0.07	-0.2400412	0.04682715	5.38E-07
C	T	0.01	-0.5669221	0.1173645	2.17E-06
A	G	0.01	-0.5669221	0.1173645	2.17E-06
C	T	0.01	-0.5669221	0.1173645	2.17E-06
A	T	0.01	-0.5669221	0.1173645	2.17E-06
A	G	0.49	-0.1061706	0.02304826	6.00E-06
A	ATTCATTCCCTCCTCC	0.07	-0.1932784	0.04121409	4.13E-06
T	C	0.03	-0.3679009	0.07301944	8.19E-07
A	AATATATAT	0.02	-0.3576957	0.07831198	7.13E-06
T	C	0.01	-0.4824192	0.1071913	9.58E-06
C	T	0.03	-0.2964424	0.0653109	8.09E-06
G	T	0.36	0.1132862	0.02463198	6.20E-06
C	T	0.28	-0.1159705	0.02553716	8.01E-06
C	T	0.28	-0.1169842	0.02552714	6.67E-06
C	A	0.28	-0.1167139	0.02560905	7.46E-06
C	T	0.13	-0.1535456	0.03389524	8.42E-06
T	A	0.13	-0.1594647	0.03354291	3.09E-06
C	T	0.13	-0.1535456	0.03389524	8.42E-06
T	C	0.13	-0.1535456	0.03389524	8.42E-06
G	A	0.13	-0.1594444	0.03354276	3.09E-06
C	G	0.13	-0.1539816	0.03370836	7.12E-06
A	G	0.13	-0.1563989	0.03331916	4.05E-06
T	C	0.13	-0.1584834	0.03392535	4.48E-06
A	G	0.02	-0.3946257	0.08628378	6.94E-06
C	T	0.02	-0.3946257	0.08628378	6.94E-06
T	G	0.02	-0.3637472	0.07947546	6.84E-06
C	T	0.03	-0.3502012	0.07505542	4.60E-06
T	TTC	0.03	-0.3502012	0.07505542	4.60E-06
G	A	0.03	-0.3502012	0.07505542	4.60E-06

C	CTG	0.01	-0.5587872	0.1161234	2.37E-06
C	T	0.02	-0.4290845	0.09335491	6.28E-06
G	T	0.04	-0.3096067	0.06351061	1.77E-06
AT	A	0.03	-0.3467007	0.07288669	3.05E-06
C	A	0.01	-0.4902054	0.1065585	6.17E-06
CAA	C	0.02	-0.3939442	0.08765652	9.85E-06
GGTGTGT	G	0.05	-0.2551185	0.05524818	5.71E-06
A	T	0.04	-0.3001912	0.06352445	3.51E-06
C	A	0.01	-0.5422429	0.1174841	5.76E-06
TAGTC	T	0.02	-0.425104	0.0899625	3.52E-06
G	A	0.02	-0.3773973	0.07983851	3.49E-06
T	C	0.48	-0.2647974	0.04454472	8.44E-09
T	C	0.47	-0.2631555	0.04418333	7.94E-09
C	A	0.46	-0.2637083	0.04369876	5.20E-09
A	G	0.46	-0.2740199	0.04413585	2.01E-09
A	C	0.48	-0.2647974	0.04454472	8.44E-09
G	A	0.48	-0.2647974	0.04454472	8.44E-09
T	C	0.47	-0.2642625	0.04467599	9.88E-09
T	C	0.47	-0.2698292	0.0445994	4.78E-09
A	G	0.46	-0.2628181	0.04438801	9.57E-09
G	C	0.47	-0.2642625	0.04467599	9.88E-09
T	A	0.47	-0.2642625	0.04467599	9.88E-09
A	G	0.08	-0.4860129	0.08000827	4.21E-09
G	A	0.01	-1.03254	0.1736852	8.44E-09
C	T	0.03	-0.745697	0.1252654	9.28E-09
G	A	0.03	-0.7810068	0.1276455	3.85E-09
A	G	0.03	-0.7810068	0.1276455	3.85E-09
GTCCT	G	0.01	-0.8842938	0.1399894	1.11E-09
A	C	0.01	-0.8842938	0.1399894	1.11E-09
T	C	0.01	-0.8842938	0.1399894	1.11E-09
A	G	0.01	-0.8842938	0.1399894	1.11E-09
TC	T	0.01	-0.8842938	0.1399894	1.11E-09
G	A	0.01	-0.8842938	0.1399894	1.11E-09
A	G	0.01	-0.8842938	0.1399894	1.11E-09
T	TAGACAGAC	0.02	0.7216923	0.1218728	9.73E-09
C	T	0.02	-0.3954732	0.07626666	4.04E-07
G	C	0.02	-0.3936157	0.08494474	5.31E-06
A	G	0.2	-0.1288943	0.02828141	7.45E-06
C	T	0.2	-0.1316713	0.02822561	4.62E-06
C	T	0.2	-0.1288943	0.02828141	7.45E-06
C	A	0.2	-0.1288943	0.02828141	7.45E-06
G	A	0.2	-0.1278733	0.02827342	8.69E-06
C	T	0.04	-0.2553605	0.05461043	4.39E-06
G	A	0.04	-0.2527643	0.05585584	8.59E-06
G	A	0.04	-0.2802254	0.05845818	2.57E-06
A	G	0.02	-0.3189595	0.0690889	5.73E-06
A	G	0.03	-0.2806296	0.06056166	5.31E-06
T	C	0.04	-0.2873702	0.06115777	3.96E-06
A	G	0.04	-0.2873702	0.06115777	3.96E-06
TA	T	0.01	-0.4760461	0.1058397	9.69E-06

C	T	0.01	-0.4760461	0.1058397	9.69E-06
A	G	0.01	-0.4760461	0.1058397	9.69E-06
A	G	0.01	-0.4760461	0.1058397	9.69E-06
T	C	0.31	-0.1157211	0.02423114	2.79E-06
C	T	0.31	-0.1130112	0.02436297	5.20E-06
T	C	0.31	-0.1199755	0.02422408	1.23E-06
A	G	0.29	-0.1113487	0.024386	7.18E-06
C	T	0.29	-0.1107487	0.02445551	8.47E-06
G	A	0.01	-0.4412674	0.09770152	8.93E-06
G	A	0.01	-0.5074602	0.1101412	5.98E-06
G	A	0.03	-0.3227472	0.06480348	1.08E-06
A	AT	0.01	-0.4721867	0.09323694	7.24E-07
T	C	0.02	-0.3741606	0.08143437	6.33E-06
C	CGT	0.12	-0.1635497	0.03555173	6.17E-06
C	T	0.02	-0.3417275	0.07603885	9.85E-06
T	G	0.01	-0.4689601	0.09720514	2.23E-06
T	G	0.29	-0.1197369	0.02508429	2.82E-06
T	C	0.03	-0.347193	0.07061039	1.45E-06
A	G	0.02	-0.3966498	0.08559231	5.30E-06
G	GACACAC	0.21	-0.1329285	0.02887048	6.06E-06
G	A	0.02	-0.3905605	0.08630746	8.60E-06
A	C	0.02	-0.3734835	0.08280377	9.17E-06
G	A	0.02	-0.3734835	0.08280377	9.17E-06
G	A	0.02	-0.3734835	0.08280377	9.17E-06
T	A	0.02	-0.3318155	0.07163501	5.35E-06
C	T	0.02	-0.3181268	0.07077253	9.81E-06
T	C	0.02	-0.4151492	0.09179711	8.70E-06
T	C	0.03	-0.3429121	0.066508	4.66E-07
G	T	0.03	-0.3196006	0.06826209	4.28E-06
G	C	0.03	-0.3196006	0.06826209	4.28E-06
A	G	0.03	-0.3068391	0.0638302	2.42E-06
C	T	0.02	-0.4401764	0.09167314	2.48E-06
T	C	0.01	-0.5084033	0.1028365	1.28E-06
G	C	0.38	0.1086606	0.02409346	9.19E-06
T	TACACAC	0.05	-0.2413708	0.05365326	9.66E-06
AACAC	A	0.02	-0.3906036	0.08371076	4.59E-06
C	T	0.05	-0.2772391	0.05235326	2.35E-07
C	G	0.04	-0.2608845	0.05498367	3.22E-06
G	A	0.25	-0.124598	0.02685603	5.18E-06
T	C	0.25	-0.1289441	0.02660291	2.01E-06
A	C	0.37	-0.110593	0.02435017	7.99E-06
T	TG	0.37	-0.1114045	0.02443259	7.39E-06
T	A	0.25	-0.1311459	0.02660283	1.37E-06
A	AT	0.25	-0.1314637	0.02668562	1.39E-06
T	C	0.25	-0.1325422	0.02668479	1.15E-06
T	C	0.25	-0.1268249	0.02670786	3.16E-06
T	TACTAC	0.25	-0.1283994	0.02692043	2.87E-06
G	C	0.25	-0.1292271	0.0266933	2.07E-06
G	A	0.25	-0.1292271	0.0266933	2.07E-06
G	A	0.25	-0.1292271	0.0266933	2.07E-06

T	A	0.25	-0.1360959	0.02657019	5.49E-07
A	G	0.25	-0.1269356	0.02670288	3.09E-06
G	C	0.31	-0.1227838	0.0258557	3.16E-06
A	G	0.31	-0.1202797	0.02571069	4.35E-06
G	C	0.37	-0.1109615	0.02442698	7.96E-06
C	T	0.31	-0.1214206	0.02574255	3.66E-06
G	A	0.31	-0.121737	0.02577306	3.55E-06
C	G	0.31	-0.1282072	0.02576335	1.10E-06
G	A	0.31	-0.1182734	0.02574117	6.32E-06
G	C	0.31	-0.1214206	0.02574255	3.66E-06
A	G	0.31	-0.1182734	0.02574117	6.32E-06
C	T	0.31	-0.1174236	0.0257993	7.66E-06
A	T	0.31	-0.1179737	0.02579409	6.94E-06
C	T	0.31	-0.119058	0.02572294	5.44E-06
G	A	0.31	-0.1214206	0.02574255	3.66E-06
A	C	0.31	-0.1221865	0.02573491	3.17E-06
C	T	0.31	-0.120833	0.0258496	4.43E-06
TTTTTC	T	0.31	-0.1230743	0.02609937	3.67E-06
A	C	0.36	-0.1160628	0.02443088	3.13E-06
G	C	0.31	-0.12853	0.02593237	1.21E-06
A	G	0.31	-0.1237352	0.02579233	2.53E-06
A	G	0.31	-0.1268221	0.02568391	1.32E-06
C	T	0.31	-0.1237352	0.02579233	2.53E-06
T	C	0.31	-0.1205718	0.02579155	4.42E-06
AT	A	0.31	-0.1256119	0.02576284	1.76E-06
G	A	0.37	-0.110985	0.02435432	7.47E-06
A	G	0.3	-0.1243865	0.02595774	2.59E-06
C	A	0.31	-0.1175158	0.02579776	7.53E-06
T	C	0.25	-0.1292287	0.02691903	2.49E-06
C	T	0.25	-0.1349095	0.02679979	8.37E-07
G	A	0.31	-0.1182734	0.02574117	6.32E-06
A	G	0.32	-0.1205469	0.02576162	4.33E-06
T	C	0.31	-0.1200807	0.02582047	4.93E-06
T	C	0.32	-0.1205469	0.02576162	4.33E-06
C	A	0.25	-0.1314892	0.02691622	1.69E-06
G	A	0.25	-0.1281148	0.02692373	3.02E-06
T	C	0.31	-0.1247298	0.02587818	2.28E-06
C	T	0.37	-0.110985	0.02435432	7.47E-06
T	G	0.25	-0.1348291	0.02700601	1.02E-06
A	C	0.31	-0.1173952	0.02575977	7.46E-06
T	C	0.31	-0.1226285	0.02581275	3.13E-06
T	G	0.25	-0.1275482	0.02695228	3.41E-06
T	G	0.25	-0.1275482	0.02695228	3.41E-06
G	A	0.25	-0.1298944	0.02684173	2.09E-06
C	T	0.25	-0.1275482	0.02695228	3.41E-06
G	A	0.25	-0.1244054	0.02708649	6.37E-06
A	T	0.25	-0.1273313	0.02697028	3.58E-06
G	A	0.25	-0.1222906	0.0270835	8.98E-06
C	T	0.25	-0.1273313	0.02697028	3.58E-06
G	A	0.23	-0.1257047	0.02779794	8.72E-06

G	C	0.25	-0.1239953	0.02705902	6.68E-06
T	C	0.25	-0.1249509	0.02708208	5.81E-06
G	A	0.25	-0.1249509	0.02708208	5.81E-06
C	G	0.22	-0.1318919	0.02773057	3.06E-06
A	G	0.25	-0.1222715	0.02708002	8.98E-06
C	T	0.25	-0.1223381	0.02708105	8.89E-06
G	A	0.31	-0.117703	0.02598393	8.42E-06
T	C	0.25	-0.1273313	0.02697028	3.58E-06
G	A	0.25	-0.1213967	0.02700415	9.79E-06
C	A	0.25	-0.1249509	0.02708208	5.81E-06
A	AT	0.25	-0.1228844	0.02708465	8.16E-06
T	C	0.25	-0.1263838	0.02707785	4.57E-06
T	G	0.25	-0.1236577	0.027079	7.16E-06
T	C	0.25	-0.1233913	0.02709264	7.56E-06
T	TTA	0.25	-0.1227607	0.02709155	8.37E-06
C	T	0.24	-0.1320808	0.02742105	2.31E-06
T	C	0.24	-0.1306471	0.02742974	2.96E-06
C	T	0.24	-0.1271921	0.02744117	5.28E-06
ACG	A	0.21	-0.1381062	0.02998045	6.00E-06
A	C	0.2	-0.1325437	0.02908955	7.49E-06
T	C	0.2	-0.1325437	0.02908955	7.49E-06
G	A	0.2	-0.1314669	0.02908144	8.77E-06
T	G	0.2	-0.1325437	0.02908955	7.49E-06
T	A	0.2	-0.1325437	0.02908955	7.49E-06
G	A	0.2	-0.1325437	0.02908955	7.49E-06
A	G	0.2	-0.1325437	0.02908955	7.49E-06
GA	G	0.19	-0.1322129	0.02912558	8.08E-06
T	G	0.2	-0.1325437	0.02908955	7.49E-06
T	C	0.2	-0.1325437	0.02908955	7.49E-06
C	T	0.2	-0.1325437	0.02908955	7.49E-06
A	T	0.2	-0.1325437	0.02908955	7.49E-06
C	A	0.2	-0.1319693	0.02855921	5.63E-06
GCTTTTGTGGGAGT	C	0.02	-0.4164863	0.08515384	1.64E-06
G	C	0.01	-0.4790781	0.1027054	4.63E-06
C	T	0.1	-0.1759371	0.03876782	8.12E-06
GCA	G	0.03	-0.28725	0.06229864	5.88E-06
T	C	0.02	-0.3390798	0.07489273	8.51E-06
C	T	0.1	-0.1805186	0.03804388	3.21E-06
A	G	0.1	-0.1772367	0.03842094	5.83E-06
G	C	0.1	-0.1805186	0.03804388	3.21E-06
A	C	0.1	-0.1772367	0.03842094	5.83E-06
T	C	0.1	-0.183795	0.03908586	3.90E-06
A	G	0.1	-0.1773974	0.03917345	8.47E-06
C	T	0.1	-0.1870476	0.03868661	2.13E-06
T	C	0.1	-0.1795899	0.03923214	6.82E-06
C	T	0.1	-0.1795899	0.03923214	6.82E-06
G	A	0.1	-0.183795	0.03908586	3.90E-06
G	A	0.1	-0.1773974	0.03917345	8.47E-06
G	GAA	0.01	-0.5047069	0.1005015	8.86E-07
C	CA	0.05	-0.2182438	0.04842773	9.33E-06

A	G	0.01	-0.5003752	0.1111669	9.55E-06
A	C	0.09	-0.1852861	0.04007118	5.55E-06
T	TAAATAAAATAAAAT/	0.02	-0.3506125	0.07766016	9.00E-06
T	TCACACACACACA	0.05	-0.22602	0.04995737	8.63E-06
T	C	0.01	-0.4597522	0.09360587	1.49E-06
A	AT	0.03	-0.2862499	0.06232525	6.38E-06
A	AT	0.01	-0.5049839	0.1014699	1.10E-06
G	A	0.05	-0.2345797	0.0518228	8.55E-06
TC	T	0.05	-0.2468453	0.05313824	5.04E-06
A	C	0.02	-0.4571632	0.08136472	4.61E-08
T	A	0.03	-0.2899595	0.0636702	7.57E-06
G	C	0.13	-0.1495912	0.03324875	9.64E-06
A	T	0.04	-0.3082284	0.06040011	6.01E-07
G	A	0.03	-0.2979423	0.06624023	9.69E-06
C	T	0.04	-0.2795399	0.0583606	2.62E-06
G	A	0.17	-0.1370066	0.02991777	6.77E-06
A	G	0.01	-0.4746254	0.100297	3.41E-06
A	AT	0.08	-0.197698	0.04087162	2.11E-06
G	A	0.36	-0.1263718	0.02385824	2.34E-07
T	C	0.36	-0.1249885	0.02384794	3.08E-07
A	G	0.32	-0.1226348	0.0244475	9.10E-07
G	C	0.32	-0.1226348	0.0244475	9.10E-07
C	T	0.01	-0.4890578	0.1022617	2.71E-06
G	C	0.01	-0.4890578	0.1022617	2.71E-06
G	A	0.01	-0.4940543	0.0991965	1.08E-06
G	A	0.02	-0.4510259	0.08666434	3.68E-07
CT	C	0.02	-0.349709	0.07747852	9.05E-06
G	A	0.02	-0.3339279	0.07401735	9.13E-06
C	T	0.05	-0.2478707	0.05388476	6.18E-06
C	T	0.04	-0.2601124	0.05712717	7.60E-06
A	G	0.01	-0.4714828	0.09067031	3.76E-07
G	C	0.01	-0.4401921	0.08883702	1.22E-06
G	A	0.01	-0.4401921	0.08883702	1.22E-06
G	T	0.01	-0.4746242	0.09934535	2.77E-06
G	A	0.01	-0.4842693	0.1067942	8.25E-06
C	T	0.02	-0.3884491	0.0843162	5.99E-06
CAGAGAGAGAGAG	C	0.03	-0.3620634	0.06773369	1.84E-07
C	T	0.01	-0.5038642	0.1108179	7.82E-06
G	A	0.01	-0.5038642	0.1108179	7.82E-06
A	C	0.1	0.1654413	0.03670854	9.32E-06
C	T	0.29	-0.1129232	0.02416749	4.46E-06
G	A	0.31	-0.1072116	0.02385799	9.87E-06
G	A	0.3	-0.1103956	0.02399866	6.17E-06
T	C	0.28	-0.1124995	0.0245497	6.67E-06
A	G	0.39	-0.103338	0.02241377	5.89E-06
C	G	0.39	-0.1021079	0.0223685	7.22E-06
G	A	0.17	-0.1499315	0.0295791	7.09E-07
G	C	0.04	-0.2762005	0.06055113	7.33E-06
A	G	0.1	-0.1713889	0.03705214	5.51E-06
.CAAAAAAGATATAAT	A	0.39	-0.1070539	0.02321288	5.86E-06

C	T	0.01	-0.4941769	0.0946768	3.42E-07
T	C	0.04	-0.2638418	0.05711483	5.66E-06
C	A	0.03	-0.3543263	0.07208171	1.46E-06
T	C	0.29	0.109745	0.02332828	3.87E-06
C	T	0.01	-0.516968	0.1108584	4.65E-06
T	TA	0.1	-0.1783937	0.03512239	6.74E-07
T	C	0.01	-0.5129951	0.1032661	1.15E-06
G	A	0.32	0.1082084	0.02327391	4.95E-06
C	T	0.1	0.1629905	0.03578203	7.54E-06
G	A	0.11	0.1664907	0.03574838	4.78E-06
A	G	0.11	0.1664907	0.03574838	4.78E-06
T	A	0.11	0.1664907	0.03574838	4.78E-06
AAGAT	A	0.1	0.1710868	0.0360433	3.19E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
T	A	0.1	0.1692565	0.03579674	3.47E-06
A	C	0.1	0.1619639	0.03605456	9.94E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
T	G	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
T	C	0.11	0.1664907	0.03574838	4.78E-06
A	G	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.1	0.1688324	0.03579418	3.66E-06
T	C	0.11	0.1664907	0.03574838	4.78E-06
T	C	0.11	0.1664907	0.03574838	4.78E-06
T	G	0.11	0.1664907	0.03574838	4.78E-06
A	G	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
G	A	0.11	0.1664907	0.03574838	4.78E-06
C	T	0.11	0.1664907	0.03574838	4.78E-06
A	C	0.11	0.1664907	0.03574838	4.78E-06
G	A	0.11	0.1664907	0.03574838	4.78E-06
C	A	0.07	0.2046203	0.04296891	2.97E-06
T	C	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.07	0.1998866	0.04287446	4.68E-06
T	C	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.07	0.1998866	0.04287446	4.68E-06
G	C	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.07	0.1998866	0.04287446	4.68E-06
G	C	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.07	0.1998866	0.04287446	4.68E-06
C	T	0.06	0.2040095	0.04528409	9.39E-06
G	C	0.03	0.2897525	0.06439386	9.61E-06
G	C	0.01	0.4753554	0.09497453	9.60E-07
G	A	0.01	0.4741216	0.1039163	7.29E-06
G	A	0.06	0.2074638	0.04446036	4.59E-06
G	A	0.06	0.2037601	0.0443181	6.24E-06
T	C	0.06	0.208125	0.04449025	4.36E-06

G	A	0.06	0.2102953	0.04537494	5.29E-06
G	A	0.01	0.5142654	0.1067105	2.29E-06
C	G	0.02	0.4407866	0.08756376	8.37E-07
A	G	0.02	0.5121332	0.08961676	2.80E-08
T	C	0.02	0.3550774	0.07642503	5.03E-06
T	G	0.03	0.2997055	0.06445874	4.95E-06
T	C	0.15	0.1383048	0.0299659	5.77E-06
A	C	0.01	0.4847008	0.1040298	4.74E-06
G	A	0.01	0.4847008	0.1040298	4.74E-06
CTGTGTGTG	C	0.04	0.2949226	0.05923966	1.09E-06
CTG	C	0.04	0.2748032	0.05600494	1.52E-06
A	G	0.11	0.1706762	0.03698004	5.77E-06
G	A	0.12	0.1540818	0.03359345	6.55E-06
T	C	0.12	0.1556669	0.03362767	5.42E-06
G	A	0.09	0.1715487	0.03772093	7.78E-06
A	G	0.12	0.1546027	0.03417103	8.63E-06
G	A	0.05	0.2398107	0.05145931	4.72E-06
A	T	0.03	0.3160792	0.0695312	7.85E-06
G	T	0.12	0.1530413	0.0336902	7.96E-06
G	A	0.11	0.1549245	0.03372548	6.35E-06
A	G	0.12	0.1557589	0.03279636	3.15E-06
T	C	0.12	0.1557589	0.03279636	3.15E-06
C	T	0.12	0.1557589	0.03279636	3.15E-06
A	G	0.12	0.1557589	0.03279636	3.15E-06
C	T	0.12	0.1557589	0.03279636	3.15E-06
G	T	0.12	0.1557589	0.03279636	3.15E-06
A	G	0.12	0.1539095	0.03226051	2.86E-06
A	C	0.12	0.153479	0.0325849	3.77E-06
G	A	0.12	0.153479	0.0325849	3.77E-06
C	CATT	0.12	0.1493689	0.03266653	6.98E-06
A	G	0.12	0.1489606	0.03263579	7.23E-06
G	GGTTAA	0.12	0.1493689	0.03266653	6.98E-06
A	G	0.12	0.153479	0.0325849	3.77E-06
A	T	0.12	0.153479	0.0325849	3.77E-06
T	C	0.12	0.153479	0.0325849	3.77E-06
C	T	0.12	0.153479	0.0325849	3.77E-06
A	G	0.03	0.3231831	0.06910551	4.38E-06
T	A	0.03	0.3231831	0.06910551	4.38E-06
G	A	0.04	0.2495928	0.0548797	7.78E-06
T	C	0.05	0.2325972	0.04524369	5.01E-07
C	T	0.01	0.5034838	0.09754231	4.53E-07
T	A	0.01	0.4430429	0.09756141	8.01E-06
C	A	0.01	0.5021861	0.09738625	4.64E-07
T	C	0.01	0.4915777	0.1006068	1.68E-06
T	G	0.04	0.2842365	0.05545271	5.39E-07
C	T	0.02	0.3813512	0.08113936	3.94E-06
A	G	0.02	0.337065	0.06820685	1.29E-06
C	T	0.02	0.3221704	0.06925434	4.90E-06
A	C	0.23	0.116793	0.02577554	8.37E-06
G	C	0.23	0.1167313	0.0256966	7.96E-06

G	A	0.03	0.2950092	0.06152087	2.55E-06
C	A	0.03	0.2904804	0.06354466	7.02E-06
C	T	0.02	0.3767455	0.0832893	8.67E-06
G	A	0.04	0.2346284	0.05183691	8.56E-06
A	T	0.01	0.5376017	0.1092175	1.42E-06
G	A	0.01	0.5376017	0.1092175	1.42E-06
C	A	0.01	0.5376017	0.1092175	1.42E-06
T	C	0.45	0.0990771	0.02148449	5.87E-06
G	A	0.02	0.3400442	0.07127658	2.86E-06
T	A	0.03	0.2799413	0.06214572	9.41E-06
G	A	0.03	0.2799413	0.06214572	9.41E-06
T	C	0.07	0.1915174	0.04227163	8.39E-06
C	T	0.07	0.1991142	0.04299896	5.39E-06
G	A	0.07	0.2194521	0.04324363	6.89E-07
G	A	0.04	0.265787	0.05554466	2.68E-06
G	GC	0.08	0.1866145	0.03983029	4.22E-06
G	A	0.09	0.1914833	0.03973861	2.30E-06
C	T	0.04	0.2649348	0.05869184	9.03E-06
G	A	0.02	0.3894455	0.08190472	3.07E-06
T	G	0.02	0.3960045	0.08652578	6.85E-06
T	C	0.04	0.2726114	0.05396911	7.71E-07
C	T	0.01	0.5107542	0.1104948	5.59E-06
T	C	0.08	0.1745061	0.03867308	9.10E-06
C	T	0.08	0.1745061	0.03867308	9.10E-06
T	C	0.08	0.1741686	0.03845874	8.47E-06
T	C	0.01	0.4154754	0.09070043	6.73E-06
G	A	0.01	0.4180211	0.09299577	9.81E-06
C	T	0.01	0.4180211	0.09299577	9.81E-06
A	G	0.01	0.4180211	0.09299577	9.81E-06
C	T	0.01	0.500174	0.09736189	5.10E-07
A	G	0.04	0.2604917	0.05745558	8.28E-06
G	A	0.01	0.5182168	0.1079105	2.47E-06
A	G	0.08	0.1960687	0.04024231	1.79E-06
G	A	0.01	0.475681	0.09394598	7.27E-07
G	A	0.01	0.4094563	0.0904719	8.57E-06
T	G	0.06	0.2112271	0.04626446	7.19E-06
A	G	0.09	0.1807151	0.03853622	4.14E-06
T	A	0.09	0.1807151	0.03853622	4.14E-06
T	C	0.09	0.1738932	0.03869828	9.88E-06
A	T	0.09	0.1738932	0.03869828	9.88E-06
T	G	0.09	0.1855389	0.03863637	2.47E-06
T	TA	0.02	0.3797569	0.07817971	1.92E-06
C	T	0.03	0.281008	0.06141969	6.89E-06
C	A	0.03	0.281008	0.06141969	6.89E-06
T	C	0.36	0.2741964	0.05779657	3.29E-06
T	C	0.37	0.2572914	0.05719367	9.81E-06
A	G	0.02	-0.9297761	0.1972788	3.79E-06
C	G	0.02	-0.9297761	0.1972788	3.79E-06
G	A	0.02	-0.9297761	0.1972788	3.79E-06
G	A	0.02	-0.9297761	0.1972788	3.79E-06

C	T	0.02	-0.9297761	0.1972788	3.79E-06
G	A	0.02	-0.9297761	0.1972788	3.79E-06
C	G	0.03	0.7864019	0.1622936	2.07E-06
T	C	0.03	0.7864019	0.1622936	2.07E-06
GA	G	0.03	0.6693974	0.1483465	9.24E-06
A	G	0.08	-0.4717702	0.1003723	4.01E-06
T	C	0.03	-0.749407	0.1604795	4.60E-06
GGTGTGTGT	G	0.04	-0.7136912	0.1470252	1.99E-06
G	T	0.21	0.3447737	0.07394043	4.75E-06
T	C	0.29	0.3064734	0.06061987	7.74E-07
C	T	0.29	0.2786745	0.0609497	7.10E-06
T	C	0.29	0.2845524	0.06121193	5.06E-06
T	C	0.29	0.2845524	0.06121193	5.06E-06
T	A	0.29	0.2796333	0.06119923	7.20E-06
C	T	0.29	0.2885518	0.0613289	3.93E-06
C	CTGAG	0.03	-0.721061	0.1574528	6.88E-06
C	T	0.08	0.4732274	0.09722182	1.87E-06
C	G	0.35	-0.268026	0.05868114	7.25E-06
C	T	0.34	-0.2692877	0.05915771	7.77E-06
C	G	0.35	-0.266095	0.05798546	6.60E-06
T	A	0.4	-0.2639028	0.0578765	7.51E-06
C	T	0.46	-0.2539312	0.05537913	6.70E-06
C	T	0.31	-0.2696942	0.05991305	9.69E-06
C	A	0.31	-0.2747982	0.05977593	6.36E-06
T	C	0.34	-0.255704	0.0548717	4.81E-06
C	T	0.02	0.8745499	0.1864781	4.21E-06
T	G	0.02	0.8472315	0.1783657	3.21E-06
G	T	0.04	0.6642799	0.146802	8.74E-06
AAAGAAAGAAAGAAA	A	0.02	-1.018181	0.2057166	1.28E-06
G	T	0.04	-0.6954393	0.1460453	3.04E-06
TA	T	0.18	0.3207967	0.06881674	4.77E-06
G	A	0.18	0.3240915	0.06936808	4.56E-06
A	C	0.18	0.3187538	0.06876663	5.37E-06
T	A	0.18	0.3224678	0.06880686	4.27E-06
G	T	0.18	0.3153126	0.06882798	6.83E-06
G	A	0.18	0.3153126	0.06882798	6.83E-06
G	A	0.18	0.3153126	0.06882798	6.83E-06
C	T	0.18	0.3153126	0.06882798	6.83E-06
T	C	0.28	0.2630193	0.05839604	9.58E-06
G	T	0.18	0.3114719	0.06865235	8.30E-06
C	G	0.27	0.2744997	0.05871113	4.49E-06
C	T	0.18	0.3223002	0.06916811	4.82E-06
C	T	0.21	0.3006079	0.065074	5.76E-06
G	A	0.2	0.3082874	0.06581607	4.32E-06
A	G	0.2	0.3117856	0.06525994	2.83E-06
G	A	0.18	0.3404833	0.06948536	1.61E-06
T	C	0.09	-0.4530448	0.09715759	4.75E-06
C	T	0.03	-0.9426981	0.1568209	6.28E-09
G	T	0.03	-0.9426981	0.1568209	6.28E-09
CAT	C	0.03	-0.978138	0.1586659	2.75E-09

G	C	0.03	-0.978138	0.1586659	2.75E-09
T	C	0.03	-0.978138	0.1586659	2.75E-09
T	C	0.36	0.2650335	0.04408778	7.11E-09
C	CT	0.19	-0.399004	0.06144825	4.40E-10
C	CA	0.02	1.397612	0.2072988	1.68E-10
TAAATAAACAAAC	T	0.02	1.195515	0.1943043	3.99E-09
G	A	0.01	1.35373	0.2009738	1.62E-10
A	C	0.04	0.674452	0.1354099	1.09E-06
G	A	0.02	0.9200572	0.1987949	5.51E-06
G	T	0.24	0.2944191	0.06500384	8.53E-06
T	C	0.22	0.2991442	0.06631809	9.25E-06
T	C	0.23	0.3030665	0.06570075	5.90E-06
G	A	0.22	0.2993308	0.06596307	8.21E-06
C	T	0.01	1.127462	0.2497805	9.13E-06
T	C	0.03	0.7329044	0.1483193	1.32E-06
AAGAGAG	A	0.06	0.5439085	0.1177514	5.73E-06
A	G	0.45	-0.2812432	0.05621088	9.83E-07
A	T	0.27	-0.3086957	0.06310625	1.66E-06
G	A	0.45	-0.2899134	0.05609487	4.46E-07
G	A	0.45	-0.2779094	0.05620003	1.29E-06
C	T	0.27	-0.2956932	0.06257176	3.55E-06
C	G	0.27	-0.2956932	0.06257176	3.55E-06
CAT	C	0.27	-0.2956932	0.06257176	3.55E-06
C	T	0.46	-0.2772919	0.05573496	1.12E-06
C	T	0.45	-0.2604669	0.05582024	4.65E-06
C	A	0.45	-0.2751733	0.05584463	1.40E-06
C	T	0.45	-0.2719195	0.05593438	1.91E-06
C	T	0.44	0.2535825	0.05583069	8.07E-06
T	C	0.44	-0.2835543	0.05563745	6.31E-07
A	G	0.26	-0.2954958	0.06278001	3.87E-06
G	A	0.26	-0.2914141	0.06277038	5.16E-06
G	T	0.26	-0.2939485	0.0627608	4.30E-06
A	G	0.29	-0.2837024	0.0603496	3.97E-06
A	AAAAC	0.01	1.238919	0.2487085	1.09E-06
AAT	A	0.06	0.5243065	0.1084893	2.18E-06
A	G	0.06	0.4916292	0.1090266	9.31E-06
A	G	0.06	0.509614	0.1074766	3.30E-06
G	A	0.06	0.5617446	0.1097398	5.67E-07
CGTAT	C	0.06	0.543864	0.1102459	1.37E-06
A	G	0.06	0.543864	0.1102459	1.37E-06
G	A	0.06	0.5331425	0.1106258	2.32E-06
G	A	0.06	0.537286	0.1099084	1.68E-06
G	A	0.06	0.543864	0.1102459	1.37E-06
C	G	0.06	0.5109156	0.1095106	4.66E-06
G	A	0.06	0.4975178	0.1099152	8.64E-06
G	T	0.06	0.5109156	0.1095106	4.66E-06
T	A	0.02	0.9899005	0.2096083	3.60E-06
G	C	0.06	-0.517729	0.1142226	8.41E-06
A	G	0.06	-0.517729	0.1142226	8.41E-06
T	C	0.01	1.172029	0.2394066	1.63E-06

G	T	0.47	0.2466618	0.05425848	7.92E-06
C	T	0.47	0.2470793	0.05435637	7.94E-06
C	A	0.47	0.2470129	0.05415952	7.42E-06
C	G	0.47	0.2594717	0.05423049	2.72E-06
C	A	0.47	0.2442426	0.05415455	9.28E-06
A	G	0.47	0.2446786	0.05444617	9.96E-06
C	G	0.44	0.2619963	0.05210175	8.72E-07
C	G	0.02	0.947083	0.207939	7.63E-06
AACAG	A	0.02	0.947083	0.207939	7.63E-06
T	C	0.02	0.947083	0.207939	7.63E-06
C	T	0.02	0.947083	0.207939	7.63E-06
G	A	0.02	0.947083	0.207939	7.63E-06
G	A	0.02	0.947083	0.207939	7.63E-06
A	AGAGT	0.02	0.8839783	0.1868593	3.47E-06
C	T	0.02	0.8839783	0.1868593	3.47E-06
GTCTGTCTA	G	0.02	0.8716976	0.1866611	4.57E-06
G	GA	0.02	0.9307322	0.1914833	1.92E-06
A	G	0.02	0.9307322	0.1914833	1.92E-06
C	T	0.02	0.9307322	0.1914833	1.92E-06
C	G	0.02	0.9307322	0.1914833	1.92E-06
G	A	0.02	0.9307322	0.1914833	1.92E-06
T	G	0.02	0.9307322	0.1914833	1.92E-06
T	C	0.02	0.9307322	0.1914833	1.92E-06
G	C	0.02	0.9307322	0.1914833	1.92E-06
G	A	0.02	0.9307322	0.1914833	1.92E-06
A	G	0.02	0.9307322	0.1914833	1.92E-06
T	C	0.02	0.9888107	0.1902763	3.89E-07
T	G	0.01	1.149445	0.2445622	3.99E-06
T	C	0.05	0.5811925	0.1261492	6.05E-06
A	G	0.33	-0.2511222	0.05434706	5.69E-06
A	T	0.33	-0.2491416	0.0548845	8.16E-06
A	G	0.33	-0.2649742	0.05414318	1.64E-06
T	C	0.34	-0.2509826	0.05440762	5.89E-06
A	G	0.34	-0.2502225	0.05458646	6.70E-06
A	G	0.02	0.8786606	0.1829967	2.51E-06
T	C	0.02	0.8428983	0.1790198	3.84E-06
A	C	0.02	1.078903	0.2267545	3.07E-06
C	T	0.02	0.908959	0.1920675	3.44E-06
G	A	0.02	0.908959	0.1920675	3.44E-06
T	C	0.02	0.905387	0.1904309	3.12E-06
T	C	0.01	1.2846	0.2792304	6.23E-06
T	G	0.39	0.257892	0.05499438	4.18E-06
C	G	0.02	0.955502	0.1808708	2.55E-07
C	G	0.3	-0.2721275	0.06056171	9.98E-06
C	T	0.02	0.9890204	0.2055199	2.39E-06
G	A	0.02	1.026783	0.2217751	5.47E-06
C	CAAAAT	0.13	-0.3762739	0.08364379	9.76E-06
G	A	0.01	1.250733	0.2644811	3.50E-06
A	G	0.02	1.116719	0.22475	1.16E-06
AC	A	0.02	1.116719	0.22475	1.16E-06

A	C	0.02	1.116719	0.22475	1.16E-06
TGCACACGTGCCAC	C	0.01	1.012432	0.2244733	9.27E-06
C	CCA	0.05	0.567562	0.1194462	3.16E-06
A	G	0.04	0.6708789	0.1483689	8.82E-06
C	T	0.02	1.048928	0.2170666	2.18E-06
G	C	0.07	0.4827732	0.1060985	7.78E-06
C	G	0.02	-0.8535616	0.1761237	2.05E-06
C	A	0.14	-0.3650925	0.07774758	4.07E-06
C	T	0.03	0.7404655	0.1558014	3.14E-06
G	T	0.03	0.7404655	0.1558014	3.14E-06
CAT	C	0.03	0.748017	0.1577495	3.30E-06
G	C	0.03	0.748017	0.1577495	3.30E-06
T	C	0.03	0.748017	0.1577495	3.30E-06
G	GTGTC	0.04	0.6682041	0.1455613	6.51E-06
A	G	0.02	0.7858245	0.1708134	6.23E-06
A	C	0.02	1.038116	0.2226485	4.72E-06
T	G	0.26	-0.3132215	0.06075811	4.76E-07
T	C	0.28	0.2709421	0.05883162	6.10E-06
G	A	0.27	0.2811534	0.05920063	3.19E-06
T	G	0.27	0.2746838	0.05913158	5.10E-06
G	A	0.12	0.3536734	0.07841495	9.27E-06
T	C	0.13	0.3569903	0.07812862	7.15E-06
G	A	0.22	0.3126677	0.06535566	2.72E-06
G	A	0.21	0.3104414	0.06629057	4.31E-06
AGTGT	A	0.15	0.3540705	0.07870705	9.76E-06
C	CG	0.49	0.2569912	0.056189	7.01E-06
T	C	0.49	-0.2571963	0.0563631	7.35E-06
T	C	0.49	-0.2615127	0.0564861	5.47E-06
CA	C	0.27	-0.2777479	0.06034087	6.16E-06
C	T	0.27	-0.2801847	0.05904254	3.25E-06
G	A	0.28	-0.2692098	0.05886094	7.02E-06
T	C	0.28	-0.2715918	0.05889359	5.93E-06
C	T	0.28	-0.2715918	0.05889359	5.93E-06
G	A	0.33	-0.2696018	0.05682392	3.26E-06
A	G	0.33	-0.2781485	0.05659079	1.49E-06
G	A	0.22	0.3060524	0.06585666	5.06E-06
T	C	0.41	0.2530366	0.05504542	6.33E-06
GT	G	0.36	0.2330424	0.05114188	7.56E-06
T	C	0.15	-0.347042	0.07562318	6.55E-06
C	T	0.15	-0.347042	0.07562318	6.55E-06
G	A	0.15	-0.3525667	0.07549395	4.56E-06
GTCCT	G	0.02	0.8093964	0.1703904	3.18E-06
C	G	0.02	0.8093964	0.1703904	3.18E-06
G	C	0.03	0.6621364	0.1445753	6.83E-06
G	C	0.02	0.8985266	0.1866365	2.37E-06
T	C	0.02	0.8865998	0.1762864	8.69E-07
C	T	0.02	0.8236477	0.1782006	5.66E-06
G	A	0.02	0.8865998	0.1762864	8.69E-07
G	C	0.02	0.8865998	0.1762864	8.69E-07
T	C	0.03	0.8661457	0.1738733	1.09E-06

T	C	0.03	0.8661457	0.1738733	1.09E-06
G	A	0.02	0.9268571	0.1821207	6.53E-07
C	A	0.01	1.283006	0.2740498	4.33E-06
T	C	0.02	1.075391	0.2232459	2.34E-06
A	G	0.02	1.075391	0.2232459	2.34E-06
G	C	0.02	1.152218	0.2291954	8.78E-07
AT	A	0.02	0.951172	0.2095202	8.15E-06
C	CCACACACACACACA	0.2	0.3126517	0.06601723	3.39E-06
G	A	0.09	-0.4351177	0.09656087	9.44E-06
G	A	0.09	-0.4351177	0.09656087	9.44E-06
G	T	0.03	0.8186517	0.1606258	6.30E-07
C	T	0.03	0.7139277	0.1574627	8.36E-06
G	A	0.03	0.7652969	0.1590247	2.39E-06
T	A	0.03	0.7879084	0.1572288	9.47E-07
G	A	0.03	0.7652969	0.1590247	2.39E-06
T	C	0.03	0.7137344	0.152434	4.32E-06
C	G	0.03	0.7137344	0.152434	4.32E-06
CTT	C	0.03	0.7137344	0.152434	4.32E-06
A	G	0.03	0.7137344	0.152434	4.32E-06
G	A	0.03	0.7137344	0.152434	4.32E-06
A	G	0.03	0.7137344	0.152434	4.32E-06
G	A	0.03	0.7137344	0.152434	4.32E-06
C	T	0.03	0.7137344	0.152434	4.32E-06
C	T	0.22	-0.3133172	0.06568704	2.91E-06
C	T	0.35	-0.265303	0.05556192	2.84E-06
C	A	0.46	0.2670156	0.05395445	1.27E-06
T	C	0.01	1.19613	0.2608048	6.63E-06
G	A	0.4	0.2764162	0.05649299	1.65E-06
C	G	0.4	0.2764162	0.05649299	1.65E-06
A	T	0.04	0.6810796	0.1350062	8.07E-07
T	G	0.04	0.601215	0.133354	9.35E-06
C	T	0.04	0.601215	0.133354	9.35E-06
C	A	0.04	0.601215	0.133354	9.35E-06
G	A	0.04	0.601215	0.133354	9.35E-06
C	A	0.29	-0.2784873	0.0612225	7.83E-06
C	T	0.28	-0.2706582	0.05929203	7.29E-06
C	A	0.34	-0.235095	0.05151907	7.35E-06
A	G	0.29	0.2752794	0.05912346	4.86E-06
C	G	0.29	0.2729525	0.05927233	6.10E-06
T	C	0.29	0.2710459	0.05875474	5.89E-06
C	CTCTT	0.28	0.2907927	0.06106034	3.01E-06
A	G	0.29	0.2746328	0.05888204	4.69E-06
T	C	0.29	0.2705649	0.05903755	6.73E-06
A	C	0.29	0.2876532	0.0589931	1.78E-06
G	A	0.3	0.2669392	0.05882458	8.21E-06
C	T	0.3	0.2669392	0.05882458	8.21E-06
T	C	0.29	0.2725465	0.05890905	5.55E-06
A	G	0.3	0.2629321	0.05844722	9.75E-06
G	A	0.3	0.2683862	0.05852351	6.64E-06
A	G	0.3	0.2667445	0.05836022	7.11E-06

C	G	0.3	0.2683508	0.05853013	6.68E-06
C	CAG	0.3	0.2675832	0.05844401	6.87E-06
T	TC	0.29	0.2939493	0.05918307	1.17E-06
C	G	0.29	0.2684196	0.05893464	7.63E-06
T	C	0.3	0.2719117	0.05842575	4.91E-06
A	G	0.3	0.2728804	0.05809491	4.04E-06
T	C	0.3	0.2691765	0.05841285	6.02E-06
A	G	0.29	0.2785156	0.0590664	3.72E-06
T	A	0.29	0.2807301	0.05893956	3.00E-06
C	T	0.28	0.2907711	0.05862423	1.21E-06
C	G	0.3	0.2630525	0.05826345	9.09E-06
T	C	0.31	0.2617373	0.05750255	7.73E-06
A	G	0.32	0.2572769	0.05714388	9.60E-06
T	C	0.31	0.2604447	0.05765131	8.98E-06
G	C	0.31	0.2582265	0.05717619	9.03E-06
A	G	0.31	0.2599874	0.05753037	8.92E-06
T	G	0.33	0.2660345	0.05760455	5.76E-06
C	G	0.34	0.2731086	0.05811896	4.01E-06
C	T	0.09	-0.4364847	0.09661929	8.98E-06
A	AAAAAG	0.24	0.2774087	0.06015414	5.93E-06
T	G	0.01	1.188699	0.2343418	7.08E-07
G	T	0.01	1.188699	0.2343418	7.08E-07
GA	G	0.01	1.188699	0.2343418	7.08E-07
T	C	0.01	1.188699	0.2343418	7.08E-07
A	G	0.02	1.04933	0.219722	2.83E-06
G	A	0.03	0.8119724	0.1635782	1.18E-06
TACACACACAC	T	0.02	0.8046779	0.1781211	8.98E-06
C	T	0.01	1.227191	0.2514208	1.74E-06
G	A	0.03	0.7967727	0.1772001	9.85E-06
G	T	0.03	0.5156136	0.08665854	8.32E-09
C	G	0.02	0.8585067	0.1437571	7.44E-09
C	G	0.44	0.222382	0.03532333	1.27E-09
T	C	0.02	1.40353	0.2210958	1.24E-09
C	T	0.02	1.336614	0.2099954	1.13E-09
T	A	0.03	0.6187056	0.1034885	7.50E-09
T	C	0.02	1.028245	0.1692913	4.48E-09
A	G	0.02	0.8949235	0.1497047	7.45E-09
AC	A	0.02	0.8949235	0.1497047	7.45E-09
A	C	0.02	0.8949235	0.1497047	7.45E-09
T	G	0.26	-0.2720167	0.0430502	1.42E-09
C	A	0.25	0.3555346	0.05679594	1.54E-09
G	C	0.25	0.3427911	0.05693471	5.69E-09
G	A	0.22	0.3742238	0.06048632	2.31E-09
G	T	0.03	0.7889843	0.1263149	1.70E-09
C	T	0.03	0.7520598	0.1235841	4.09E-09
G	A	0.03	0.7662019	0.1249646	3.19E-09
T	A	0.03	0.7501092	0.1237807	4.70E-09
G	A	0.03	0.7662019	0.1249646	3.19E-09
T	C	0.03	0.7375586	0.1196705	2.68E-09
C	G	0.03	0.7375586	0.1196705	2.68E-09

CTT	C	0.03	0.7375586	0.1196705	2.68E-09
A	G	0.03	0.7375586	0.1196705	2.68E-09
G	A	0.03	0.7375586	0.1196705	2.68E-09
A	G	0.03	0.7375586	0.1196705	2.68E-09
G	A	0.03	0.7375586	0.1196705	2.68E-09
C	T	0.03	0.7375586	0.1196705	2.68E-09
C	G	0.02	0.8358768	0.1373411	4.83E-09
A	G	0.47	0.2413265	0.03991209	5.19E-09
A	T	0.04	0.5681109	0.09312712	3.77E-09
C	G	0.02	0.7169039	0.1154606	2.04E-09
A	G	0.01	1.117317	0.1798376	2.34E-09
T	C	0.03	0.6737861	0.1127936	8.58E-09
T	G	0.38	0.1909391	0.03208614	8.43E-09
C	CA	0.02	0.4142345	0.09210199	9.70E-06
GTAA	G	0.42	-0.1025894	0.02260608	8.12E-06
C	T	0.21	0.1344034	0.02904659	5.47E-06
AGGAGG	A	0.01	0.4901988	0.1085652	8.98E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
G	T	0.02	0.4137228	0.09034196	6.76E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
T	C	0.02	0.4137228	0.09034196	6.76E-06
T	C	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.02	0.4137228	0.09034196	6.76E-06
G	A	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.02	0.4137228	0.09034196	6.76E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
T	A	0.02	0.4137228	0.09034196	6.76E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
A	C	0.02	0.4137228	0.09034196	6.76E-06
C	A	0.02	0.4137228	0.09034196	6.76E-06
T	C	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.02	0.4246358	0.08858245	2.57E-06
A	G	0.01	0.4485511	0.09820923	7.14E-06
C	G	0.02	0.4137228	0.09034196	6.76E-06
A	G	0.02	0.4137228	0.09034196	6.76E-06
C	T	0.04	0.2569827	0.05698468	9.20E-06
T	C	0.04	0.2834163	0.0586919	2.19E-06
TACA	T	0.05	0.2609061	0.05614986	5.02E-06
C	T	0.04	0.2873331	0.05875978	1.65E-06
C	T	0.03	0.2996788	0.06569955	7.33E-06
T	C	0.02	0.4814957	0.09358334	4.91E-07
T	TA	0.02	0.3498195	0.07652126	7.01E-06
A	AATCCATCC	0.02	0.406334	0.09039817	9.82E-06
TAC	T	0.02	0.3997921	0.07939152	8.30E-07
T	G	0.3	0.1137137	0.02497065	7.58E-06
C	T	0.01	0.4663446	0.09848928	3.37E-06

C	A	0.03	0.3500383	0.07393268	3.37E-06
C	T	0.03	0.3327941	0.07299967	7.41E-06
TTAGA	T	0.32	-0.1162894	0.02586635	9.78E-06
GA	G	0.32	-0.1175645	0.02588443	7.99E-06
G	A	0.34	0.1069078	0.0234941	7.69E-06
A	G	0.35	0.1048633	0.02330204	9.59E-06
A	G	0.34	0.1084099	0.02350792	5.86E-06
G	C	0.34	0.1069249	0.02368825	9.04E-06
C	A	0.01	0.519872	0.10895	2.85E-06
G	T	0.01	0.519872	0.10895	2.85E-06
A	T	0.06	0.2407348	0.0494254	1.80E-06
C	T	0.06	0.2513673	0.05034992	1.02E-06
AATGTT	A	0.06	0.2407348	0.0494254	1.80E-06
TATCTATC	T	0.06	0.2373337	0.0487786	1.85E-06
C	G	0.06	0.2373337	0.0487786	1.85E-06
G	A	0.06	0.2373337	0.0487786	1.85E-06
G	A	0.06	0.2373337	0.0487786	1.85E-06
C	T	0.06	0.2424819	0.04898827	1.25E-06
C	T	0.06	0.2407348	0.0494254	1.80E-06
C	G	0.06	0.2321885	0.04859419	2.76E-06
G	C	0.06	0.2373337	0.0487786	1.85E-06
G	C	0.06	0.2407348	0.0494254	1.80E-06
G	T	0.12	0.1604953	0.03555014	9.01E-06
C	T	0.12	0.1603976	0.03502925	6.78E-06
A	G	0.12	0.1580621	0.03498656	8.88E-06
G	A	0.04	0.3162696	0.06058536	3.41E-07
T	C	0.06	0.2633933	0.04983074	2.47E-07
G	A	0.05	0.2473138	0.05261817	3.94E-06
C	T	0.06	0.2394471	0.05196724	5.97E-06
T	A	0.06	0.2372251	0.04954005	2.63E-06
AATAC	A	0.05	0.2442678	0.05279309	5.48E-06
A	G	0.06	0.2314561	0.04976925	4.93E-06
G	C	0.06	0.2357795	0.05169496	7.34E-06
C	G	0.05	0.2392655	0.05250093	7.46E-06
G	A	0.05	0.2392655	0.05250093	7.46E-06
C	T	0.05	0.2543097	0.05302639	2.55E-06
T	G	0.04	0.2993028	0.06426177	4.77E-06
A	G	0.04	0.2993028	0.06426177	4.77E-06
C	T	0.05	0.2384192	0.05269375	8.62E-06
G	GT	0.01	0.4463274	0.09808546	7.69E-06
GCGAGGTAGTCCTT.	C	0.01	0.4977653	0.1001698	1.14E-06
C	CT	0.01	0.5123218	0.1086054	3.65E-06
A	G	0.01	0.4428243	0.09816148	9.14E-06
A	AAGAGAG	0.17	0.1475279	0.03095531	2.92E-06
C	CACAGAGAG	0.03	0.3257892	0.06833441	2.90E-06
G	A	0.05	0.2498495	0.05552631	9.62E-06
T	C	0.01	0.4726506	0.1028569	6.31E-06
C	G	0.02	0.3806763	0.0778963	1.67E-06
C	T	0.04	0.2838142	0.06275052	8.68E-06
T	TA	0.02	0.3712805	0.07903708	3.99E-06

G	A	0.02	0.3712805	0.07903708	3.99E-06
T	A	0.02	0.3712805	0.07903708	3.99E-06
C	T	0.03	0.3320271	0.06745702	1.42E-06
G	T	0.02	0.3841107	0.07779569	1.32E-06
C	T	0.02	0.3841107	0.07779569	1.32E-06
T	C	0.03	0.3421752	0.06671685	5.31E-07
C	T	0.06	0.2357357	0.05175521	7.55E-06
G	A	0.06	0.2429628	0.05140667	3.50E-06
A	T	0.06	0.2326064	0.05041144	5.80E-06
C	G	0.05	0.242199	0.05197301	4.72E-06
G	T	0.05	0.242199	0.05197301	4.72E-06
G	A	0.19	0.1368315	0.03039599	9.53E-06
T	C	0.02	0.4561198	0.09175264	1.13E-06
G	A	0.02	0.444374	0.09390859	3.41E-06
C	A	0.02	0.444374	0.09390859	3.41E-06
A	G	0.02	0.444374	0.09390859	3.41E-06
G	T	0.02	0.444374	0.09390859	3.41E-06
T	C	0.02	0.444374	0.09390859	3.41E-06
C	T	0.02	0.444374	0.09390859	3.41E-06
C	T	0.02	0.444374	0.09390859	3.41E-06
T	C	0.02	0.444374	0.09390859	3.41E-06
C	A	0.44	-0.1084227	0.02298838	3.66E-06
G	A	0.46	-0.1061256	0.02304099	6.01E-06
G	C	0.44	-0.1025009	0.02271118	9.06E-06
T	C	0.42	0.1028443	0.02265189	8.05E-06
G	C	0.42	0.1023191	0.02265695	8.95E-06
C	T	0.41	0.1100055	0.02310671	2.99E-06
G	C	0.41	0.1100055	0.02310671	2.99E-06
T	A	0.42	0.1139917	0.02297326	1.18E-06
G	C	0.41	0.1094284	0.02304559	3.17E-06
G	A	0.41	0.1114972	0.02303422	2.07E-06
T	C	0.43	0.1195285	0.02275429	2.90E-07
G	A	0.41	0.1138442	0.02295282	1.19E-06
A	G	0.43	0.1105219	0.02278396	1.98E-06
G	A	0.19	-0.1472769	0.03052852	2.24E-06
A	C	0.18	-0.151507	0.03205151	3.49E-06
T	C	0.2	-0.1431454	0.03046577	3.97E-06
G	T	0.01	0.5018064	0.1081057	5.12E-06
G	A	0.13	0.1702936	0.03611538	3.68E-06
A	G	0.05	0.2454052	0.05401522	7.94E-06
CT	C	0.35	0.1060188	0.02325691	7.42E-06
A	G	0.33	-0.1071298	0.02364858	8.41E-06
A	T	0.33	-0.106763	0.0237071	9.46E-06
T	C	0.02	0.4436371	0.08321645	1.97E-07
C	A	0.3	-0.1195209	0.02621751	7.41E-06
T	C	0.29	-0.1184804	0.02631773	9.52E-06
A	T	0.3	-0.1196477	0.02567853	4.73E-06
G	A	0.3	-0.1183174	0.02585286	6.85E-06
C	T	0.01	0.4489855	0.09435019	3.02E-06
A	G	0.01	0.4489855	0.09435019	3.02E-06

G	GGAGA	0.01	0.5354415	0.1044216	5.34E-07
T	TACACAC	0.01	0.554204	0.1002792	7.38E-08
A	C	0.02	0.3853243	0.08374801	6.15E-06
G	C	0.02	0.3853243	0.08374801	6.15E-06
T	C	0.02	0.3853243	0.08374801	6.15E-06
G	GT	0.03	0.3034636	0.06502557	4.58E-06
C	A	0.02	0.3517646	0.07710992	7.31E-06
C	CGTGTGT	0.45	0.09698687	0.02077986	4.57E-06
G	A	0.01	0.4126901	0.09109413	8.40E-06
C	T	0.03	0.269142	0.05813822	5.42E-06
A	C	0.01	0.4802807	0.1047267	6.57E-06
TACACACAC	T	0.01	0.4728069	0.1038767	7.65E-06
C	T	0.02	0.357013	0.07690451	5.11E-06
A	G	0.01	0.4281569	0.08890669	2.32E-06
G	C	0.01	0.4778737	0.09607769	1.11E-06
G	T	0.01	0.4530113	0.09874404	6.52E-06
C	T	0.17	0.1380767	0.02912647	3.28E-06
C	T	0.17	0.1378575	0.02831191	1.82E-06
A	G	0.05	0.2356089	0.05084746	5.32E-06
C	G	0.04	0.2560196	0.05636888	7.99E-06
T	G	0.3	0.1054193	0.02346978	9.96E-06
C	T	0.29	0.1153999	0.02368446	1.79E-06
A	G	0.29	0.1112221	0.02369255	4.04E-06
T	G	0.29	0.107833	0.02372265	7.86E-06
C	A	0.29	0.1098488	0.02378147	5.67E-06
A	G	0.29	0.111901	0.02383773	4.05E-06
T	C	0.29	0.1089506	0.02380337	6.84E-06
C	G	0.29	0.1075164	0.02373493	8.42E-06
A	G	0.29	0.1097671	0.02378178	5.76E-06
T	A	0.29	0.1097671	0.02378178	5.76E-06
T	C	0.29	0.111901	0.02383773	4.05E-06
G	T	0.29	0.1130189	0.02337388	2.13E-06
A	C	0.29	0.1097671	0.02378178	5.76E-06
T	G	0.29	0.1140612	0.02384315	2.69E-06
T	C	0.29	0.113391	0.02385682	3.10E-06
T	C	0.29	0.111915	0.0237877	3.86E-06
T	TAGTC	0.3	0.1162794	0.02349227	1.25E-06
G	T	0.29	0.111887	0.02373241	3.69E-06
A	G	0.29	0.1155493	0.02385642	2.05E-06
T	G	0.3	0.1080072	0.02261747	2.80E-06
T	C	0.3	0.1098039	0.02353619	4.61E-06
G	A	0.3	0.1053593	0.02307445	7.18E-06
G	A	0.29	0.1162163	0.02384242	1.77E-06
G	A	0.29	0.1140602	0.02378764	2.56E-06
T	C	0.3	0.1085447	0.02361101	6.25E-06
G	T	0.29	0.1140602	0.02378764	2.56E-06
A	C	0.3	0.1065493	0.02355449	8.66E-06
T	C	0.3	0.1100637	0.0236841	5.00E-06
T	A	0.29	0.1140602	0.02378764	2.56E-06
T	C	0.3	0.1063824	0.02356119	8.98E-06

G	T	0.29	0.1155493	0.02385642	2.05E-06
A	G	0.3	0.1107087	0.02366902	4.37E-06
A	G	0.3	0.108683	0.02361169	6.10E-06
G	GT	0.31	0.1084328	0.02321886	4.51E-06
C	T	0.3	0.108743	0.0236084	6.01E-06
G	C	0.29	0.1155493	0.02385642	2.05E-06
G	C	0.31	0.1109142	0.02335839	3.17E-06
T	C	0.3	0.1085918	0.0234732	5.49E-06
G	A	0.29	0.1131584	0.02379506	3.06E-06
T	C	0.3	0.1134917	0.02353275	2.25E-06
G	A	0.04	0.2526766	0.05558247	7.85E-06
C	A	0.01	0.4551371	0.09898747	6.23E-06
G	A	0.31	-0.1125423	0.02353746	2.72E-06
G	A	0.31	-0.11351	0.02348119	2.14E-06
G	A	0.3	-0.1115601	0.02360287	3.50E-06
A	C	0.31	-0.11351	0.02348119	2.14E-06
G	A	0.31	-0.11351	0.02348119	2.14E-06
C	T	0.31	-0.1136062	0.0233443	1.84E-06
A	AT	0.31	-0.1166663	0.02330466	9.55E-07
C	T	0.31	-0.1149157	0.02347776	1.61E-06
C	A	0.31	-0.1196955	0.02336083	5.44E-07
G	A	0.31	-0.1149157	0.02347776	1.61E-06
C	T	0.31	-0.1149157	0.02347776	1.61E-06
G	T	0.31	-0.1149157	0.02347776	1.61E-06
T	C	0.3	-0.1112843	0.02374717	4.20E-06
C	G	0.31	-0.1130694	0.02359998	2.60E-06
T	G	0.31	-0.1149157	0.02347776	1.61E-06
C	T	0.31	-0.1149181	0.02341069	1.51E-06
AT	A	0.3	-0.1151721	0.02351769	1.59E-06
T	TTTGCCAG	0.31	-0.1160017	0.02352342	1.36E-06
CTCT	C	0.3	-0.1150564	0.0235878	1.74E-06
T	G	0.3	-0.1071102	0.02358582	8.01E-06
C	A	0.31	-0.1125783	0.02354108	2.71E-06
G	A	0.31	-0.1141744	0.02355331	2.01E-06
C	T	0.31	-0.1141744	0.02355331	2.01E-06
C	T	0.31	-0.1141744	0.02355331	2.01E-06
T	A	0.31	-0.1141744	0.02355331	2.01E-06
T	C	0.31	-0.1126781	0.0235845	2.77E-06
G	A	0.31	-0.1126232	0.02358258	2.79E-06
T	C	0.31	-0.1126232	0.02358258	2.79E-06
A	G	0.31	-0.1092492	0.02355559	5.21E-06
G	A	0.31	-0.1105308	0.02357777	4.16E-06
G	C	0.31	-0.1060631	0.02352981	9.29E-06
GA	G	0.32	-0.1101135	0.02346654	4.08E-06
T	C	0.01	0.4141134	0.0912112	8.05E-06
C	T	0.01	0.4581453	0.09883808	5.28E-06
C	CT	0.04	0.2495228	0.05275726	3.45E-06
T	C	0.13	0.15082	0.03157559	2.78E-06
C	G	0.01	0.4407699	0.09356114	3.75E-06
A	C	0.02	0.3333866	0.07383472	8.98E-06

A	G	0.02	0.3333866	0.07383472	8.98E-06
A	T	0.01	0.4694902	0.09900702	3.26E-06
G	C	0.02	0.3859599	0.08551645	9.06E-06
G	A	0.04	0.2590492	0.05517257	4.03E-06
A	C	0.02	0.3315883	0.07187235	5.81E-06
C	T	0.01	0.4551548	0.09950534	6.93E-06
C	T	0.02	0.3559335	0.07119388	9.86E-07
G	C	0.02	0.3559335	0.07119388	9.86E-07
C	T	0.02	0.3575002	0.07344444	1.83E-06
G	A	0.02	0.3559335	0.07119388	9.86E-07
C	G	0.01	0.4215809	0.08583271	1.49E-06
C	T	0.01	0.4882277	0.1021487	2.75E-06
C	T	0.02	0.3438501	0.07478209	6.23E-06
T	C	0.01	0.4929939	0.1022565	2.27E-06
G	A	0.01	0.4929939	0.1022565	2.27E-06
G	A	0.01	0.4929939	0.1022565	2.27E-06
G	A	0.01	0.4929939	0.1022565	2.27E-06
A	T	0.01	0.4929939	0.1022565	2.27E-06
A	T	0.01	0.4929939	0.1022565	2.27E-06
A	G	0.01	0.4929939	0.1022565	2.27E-06
C	T	0.15	0.1384734	0.03006609	6.02E-06
ATTGTT	A	0.1	0.1739857	0.03678157	3.44E-06
C	G	0.14	-0.1359466	0.03017918	9.41E-06
C	T	0.14	-0.1354294	0.02951949	6.52E-06
G	A	0.14	-0.1359466	0.03017918	9.41E-06
C	G	0.13	-0.1398461	0.0310591	9.49E-06
T	C	0.13	-0.1415143	0.03095182	6.99E-06
C	T	0.13	-0.1397281	0.03108326	9.80E-06
T	C	0.13	-0.1425009	0.03122085	7.24E-06
C	T	0.02	0.3471449	0.07485337	5.22E-06
G	T	0.01	0.5094322	0.1026303	1.17E-06
G	T	0.02	0.396188	0.08688092	7.37E-06
A	G	0.04	0.26255	0.0579406	8.37E-06
T	C	0.04	0.27126	0.05839599	5.05E-06
G	A	0.04	0.27126	0.05839599	5.05E-06
TTGA	T	0.04	0.2604682	0.05785637	9.52E-06
T	C	0.04	0.2604682	0.05785637	9.52E-06
G	A	0.05	0.2358964	0.04863573	1.98E-06
C	T	0.12	0.1450733	0.03104848	4.47E-06
T	C	0.04	0.2428648	0.05026669	2.16E-06
G	A	0.05	0.24349	0.05026574	2.04E-06
A	AC	0.07	0.1875221	0.04068197	5.92E-06
T	TACA	0.07	0.1990104	0.04119003	2.16E-06
G	A	0.01	0.4904455	0.1016304	2.22E-06
G	C	0.01	0.4559315	0.09399311	1.98E-06
C	T	0.01	0.5414238	0.09930168	1.08E-07
A	G	0.01	0.4976642	0.09660397	4.76E-07
T	G	0.01	0.4976642	0.09660397	4.76E-07
C	T	0.02	0.403626	0.08447337	2.76E-06
C	T	0.01	0.5440742	0.1005253	1.32E-07

G	A	0.02	0.3826972	0.08299095	5.87E-06
C	T	0.02	0.3826972	0.08299095	5.87E-06
C	A	0.14	0.1510516	0.03042123	1.16E-06
G	A	0.14	0.1374958	0.03060341	9.91E-06
A	G	0.13	0.140105	0.03114498	9.67E-06
C	G	0.07	0.1931553	0.0391563	1.35E-06
A	G	0.14	0.1397369	0.03095749	9.04E-06
C	T	0.11	0.1541163	0.03316986	5.02E-06
G	A	0.03	0.2969255	0.06498619	7.09E-06
G	A	0.36	0.1029566	0.02190722	3.95E-06
C	T	0.06	0.2074567	0.04469977	5.14E-06
T	G	0.02	0.327714	0.07131168	6.30E-06
A	G	0.01	0.430664	0.08912342	2.16E-06
T	C	0.01	0.4441329	0.09405788	3.57E-06
CTG	C	0.04	0.2589054	0.05671496	7.21E-06
A	G	0.01	0.4561578	0.09104291	9.36E-07
C	A	0.02	0.4042587	0.08754609	5.71E-06
A	G	0.02	0.4042587	0.08754609	5.71E-06
T	A	0.02	0.384151	0.08029371	2.69E-06
G	C	0.06	0.2055724	0.04346034	3.44E-06
A	G	0.04	0.2919876	0.05625801	3.95E-07
G	T	0.03	0.2903774	0.06255434	5.12E-06
G	T	0.03	0.2752138	0.06034124	7.34E-06
G	A	0.01	0.433075	0.09562769	8.46E-06
T	A	0.06	0.2022667	0.04440959	7.55E-06
C	A	0.04	0.2442832	0.05214579	4.23E-06
A	T	0.02	0.3289235	0.07164094	6.42E-06
C	T	0.01	0.3841076	0.08369947	6.48E-06
GA	G	0.18	0.138558	0.02851672	1.91E-06
A	CAACTCTTAAATA/	0.04	0.2516365	0.05394093	4.62E-06
AC	A	0.01	0.4720825	0.09652456	1.64E-06
G	A	0.02	0.3876878	0.07976779	1.89E-06
T	G	0.06	0.2195582	0.04471949	1.50E-06
A	G	0.05	0.2454279	0.04883073	8.69E-07
G	GGTGT	0.01	0.4437408	0.0984644	9.33E-06
C	T	0.01	0.4963567	0.1012424	1.55E-06
T	C	0.19	0.1179809	0.02604416	8.42E-06
C	CAATA	0.19	0.1183846	0.02619604	8.83E-06
A	T	0.06	0.2064429	0.04579965	9.29E-06
C	T	0.47	0.09366565	0.02065449	8.24E-06
C	T	0.03	0.3071812	0.06252817	1.48E-06
A	G	0.15	0.1298152	0.02776939	4.42E-06
G	T	0.05	0.203492	0.04506794	8.98E-06
CT	C	0.15	-0.3644071	0.05851242	2.26E-09
C	T	0.01	-1.57296	0.2589982	6.43E-09
T	G	0.45	0.1098565	0.02407242	7.26E-06
T	A	0.49	-0.10996	0.02358961	4.69E-06
G	A	0.03	0.3454602	0.06998929	1.33E-06
A	G	0.08	0.2408837	0.04786268	8.41E-07
A	AATAG	0.23	0.1539205	0.03039472	7.25E-07

G	GA	0.08	0.2046166	0.04508762	8.12E-06
C	T	0.01	0.5046829	0.1041529	2.03E-06
C	T	0.31	0.1329242	0.02747301	2.09E-06
C	A	0.07	0.2261948	0.04767306	3.22E-06
T	A	0.05	0.2572656	0.05629008	7.04E-06
C	T	0.12	0.1747366	0.0382562	7.13E-06
T	C	0.3	-0.1207978	0.02615638	5.69E-06
G	A	0.3	-0.1188149	0.02617979	8.11E-06
G	A	0.18	0.147121	0.03177938	5.42E-06
T	C	0.19	0.1434645	0.03128988	6.60E-06
T	TA	0.19	0.1465787	0.03170786	5.58E-06
T	C	0.19	0.1478172	0.03138567	3.77E-06
A	T	0.19	0.1425632	0.03098544	6.15E-06
AT	A	0.19	0.1407264	0.03131117	9.84E-06
C	T	0.19	0.1407892	0.03129925	9.68E-06
A	T	0.2	0.139215	0.03081741	8.90E-06
CT	C	0.19	0.1440932	0.03142994	6.61E-06
T	A	0.19	0.1407892	0.03129925	9.68E-06
T	C	0.19	0.142341	0.03130267	7.80E-06
T	C	0.19	0.1425085	0.03111805	6.76E-06
TG	T	0.19	0.144169	0.03099609	4.91E-06
G	T	0.19	0.1413649	0.0312001	8.38E-06
T	C	0.19	0.1407892	0.03129925	9.68E-06
T	C	0.19	0.1423701	0.03072739	5.32E-06
C	G	0.08	0.2095865	0.04621559	8.24E-06
A	G	0.08	0.2153804	0.04601295	4.30E-06
C	T	0.08	0.2153804	0.04601295	4.30E-06
T	TC	0.08	0.2105014	0.04586888	6.48E-06
G	A	0.48	0.113855	0.02488531	6.90E-06
T	C	0.03	0.3452508	0.07224386	2.75E-06
T	C	0.03	0.3452508	0.07224386	2.75E-06
G	T	0.03	0.3452508	0.07224386	2.75E-06
C	T	0.02	0.40845	0.08833377	5.55E-06
C	T	0.01	0.5614145	0.112329	9.93E-07
T	C	0.16	0.1524432	0.0337644	8.99E-06
T	C	0.27	-0.1212696	0.02562082	3.39E-06
A	T	0.01	0.5314896	0.1092878	1.87E-06
C	T	0.46	0.1139602	0.02408866	3.43E-06
C	T	0.01	0.487301	0.1080654	9.22E-06
A	T	0.02	0.3680024	0.08164604	9.30E-06
C	T	0.03	0.3496167	0.07752365	9.20E-06
C	T	0.02	0.4034703	0.08704261	5.28E-06
AAAAGAAAGAAAG	A	0.09	0.1945885	0.0419813	5.28E-06
G	A	0.12	0.1752702	0.03769732	4.95E-06
A	G	0.41	-0.1142584	0.02385688	2.63E-06
T	C	0.5	0.1108681	0.02459153	9.26E-06
G	T	0.31	-0.1183807	0.0262898	9.48E-06
C	T	0.31	-0.1213211	0.02639411	6.27E-06
A	G	0.02	0.4033988	0.08611324	4.23E-06
C	G	0.05	0.2515241	0.0541208	5.00E-06

A	C	0.03	0.3342335	0.07157407	4.52E-06
T	A	0.37	-0.1177635	0.02540404	5.27E-06
G	A	0.36	-0.1180464	0.0254868	5.36E-06
T	C	0.37	-0.1178993	0.0253502	4.92E-06
G	A	0.36	-0.1213814	0.02534808	2.63E-06
TA	T	0.37	-0.121056	0.02504683	2.15E-06
C	T	0.37	-0.1239067	0.02529154	1.58E-06
C	T	0.01	0.5600068	0.1196488	4.31E-06
G	A	0.01	-0.4756776	0.103489	6.28E-06
C	T	0.01	-0.4756776	0.103489	6.28E-06
A	G	0.26	-0.1204831	0.02577009	4.41E-06
C	T	0.03	-0.3471464	0.07135143	1.85E-06
A	AT	0.37	-0.1084755	0.02357728	6.15E-06
AAG	A	0.36	0.1106854	0.02376924	4.79E-06
C	T	0.07	-0.2159328	0.0465668	5.23E-06
T	TCCTACCCTAC	0.07	-0.2063911	0.04556659	8.44E-06
T	G	0.08	-0.1947831	0.04280386	7.69E-06
C	T	0.08	-0.1947831	0.04280386	7.69E-06
G	T	0.08	-0.1947831	0.04280386	7.69E-06
G	GGAAAGGAAAA	0.06	-0.2385421	0.04902979	1.85E-06
C	T	0.4	-0.1133858	0.02382412	3.01E-06
A	G	0.4	-0.111487	0.02378479	4.18E-06
T	A	0.38	-0.1067254	0.02338658	7.26E-06
C	T	0.37	-0.1060082	0.02322097	7.21E-06
CG	C	0.24	0.1300208	0.02733571	3.05E-06
A	C	0.03	-0.3473103	0.07053352	1.41E-06
T	A	0.03	-0.3473103	0.07053352	1.41E-06
C	T	0.03	-0.3342535	0.07147685	4.39E-06
T	G	0.03	-0.3473103	0.07053352	1.41E-06
G	T	0.03	-0.3342535	0.07147685	4.39E-06
A	C	0.24	-0.1249203	0.02709814	5.91E-06
GA	G	0.06	-0.201635	0.04448453	8.32E-06
T	TTGTGTGTG	0.07	-0.2075541	0.0456853	7.94E-06
A	G	0.12	-0.1684099	0.03381164	1.08E-06
C	T	0.01	-0.5159767	0.1129417	7.10E-06
A	G	0.01	-0.5159767	0.1129417	7.10E-06
G	C	0.35	0.1131401	0.02409385	4.02E-06
T	C	0.35	0.111152	0.0240787	5.75E-06
A	G	0.35	0.1114612	0.0239933	5.04E-06
AG	A	0.48	0.1028442	0.02284792	9.55E-06
T	C	0.07	-0.2148864	0.04592218	4.33E-06
T	C	0.08	0.2056202	0.0437354	3.92E-06
G	A	0.02	-0.4663275	0.09566523	1.77E-06
T	G	0.02	-0.445797	0.09182928	1.94E-06
C	CT	0.06	-0.1960261	0.04305841	7.62E-06
A	G	0.45	-0.1107565	0.02353827	3.85E-06
C	T	0.45	-0.1143025	0.02352205	1.90E-06
T	A	0.01	-0.4645269	0.1027979	8.84E-06
G	A	0.05	-0.2487422	0.05435678	6.87E-06
A	G	0.22	-0.1323317	0.02832015	4.46E-06

T	C	0.22	-0.1326232	0.02831152	4.23E-06
G	A	0.22	-0.1313517	0.02829761	5.12E-06
T	C	0.21	-0.1318919	0.02810573	4.08E-06
A	ATG	0.02	-0.3898784	0.08253351	3.54E-06
C	T	0.02	-0.3863251	0.08203837	3.78E-06
AAAAT	A	0.09	-0.1971053	0.04101842	2.44E-06
CTT	C	0.12	-0.1641548	0.03622262	8.35E-06
C	T	0.12	-0.1664561	0.03554582	4.26E-06
A	G	0.12	-0.1643258	0.03548912	5.39E-06
G	A	0.12	-0.1616592	0.03545845	7.40E-06
G	A	0.12	-0.1616592	0.03545845	7.40E-06
A	C	0.12	-0.1616592	0.03545845	7.40E-06
G	A	0.12	-0.1616592	0.03545845	7.40E-06
T	C	0.12	-0.1616592	0.03545845	7.40E-06
A	AG	0.12	-0.1616592	0.03545845	7.40E-06
A	G	0.12	-0.1596159	0.03519261	8.22E-06
A	C	0.12	-0.1645794	0.03511948	4.20E-06
T	G	0.13	-0.1588663	0.03435884	5.56E-06
A	T	0.13	-0.1588663	0.03435884	5.56E-06
C	T	0.13	-0.1588663	0.03435884	5.56E-06
G	A	0.13	-0.1588663	0.03435884	5.56E-06
G	A	0.13	-0.1588663	0.03435884	5.56E-06
A	T	0.13	-0.1588663	0.03435884	5.56E-06
T	G	0.13	-0.1588663	0.03435884	5.56E-06
C	T	0.13	-0.1588663	0.03435884	5.56E-06
T	C	0.13	-0.1588663	0.03435884	5.56E-06
G	T	0.13	-0.15304	0.03407249	9.96E-06
C	T	0.13	-0.158879	0.03371998	3.74E-06
A	G	0.13	-0.1535496	0.03405597	9.24E-06
A	G	0.14	-0.1500256	0.03266752	6.39E-06
T	G	0.13	-0.159357	0.03370189	3.47E-06
A	G	0.14	-0.1547721	0.03266014	3.31E-06
C	T	0.13	-0.1588663	0.03435884	5.56E-06
G	A	0.13	-0.15304	0.03407249	9.96E-06
A	G	0.13	-0.1571219	0.03430621	6.75E-06
C	A	0.13	-0.1586037	0.03372322	3.89E-06
A	G	0.13	-0.1588663	0.03435884	5.56E-06
G	A	0.13	-0.1537787	0.03343727	6.20E-06
G	A	0.13	-0.1588663	0.03435884	5.56E-06
A	G	0.13	-0.1535496	0.03405597	9.24E-06
T	C	0.13	-0.159357	0.03370189	3.47E-06
A	T	0.1	-0.1859669	0.03787295	1.50E-06
A	ATGTGTG	0.02	-0.3796004	0.07873843	2.27E-06
C	CCTTCTTT	0.02	-0.3971081	0.08708395	7.37E-06
G	A	0.02	-0.484038	0.08163995	9.16E-09
C	A	0.27	-0.1370811	0.02866567	2.71E-06
.TGTGTGTGTGTGTGT	C	0.02	0.4227217	0.08925154	3.34E-06
G	GT	0.05	-0.2710106	0.05933533	7.14E-06
C	T	0.04	0.3217654	0.07096335	8.26E-06
GA	G	0.02	-0.5219569	0.1074779	1.93E-06

A	C	0.5	-0.122064	0.02548174	2.61E-06
A	G	0.5	-0.122064	0.02548174	2.61E-06
T	C	0.5	-0.122064	0.02548174	2.61E-06
T	TA	0.5	-0.1236038	0.02542559	1.88E-06
A	C	0.5	-0.122064	0.02548174	2.61E-06
C	T	0.5	-0.1170183	0.02543447	6.15E-06
G	A	0.5	0.1129966	0.02497491	8.63E-06
A	AT	0.16	-0.1653254	0.03584227	5.84E-06
T	C	0.24	-0.1383904	0.03070267	9.29E-06
T	TCACACACACACA	0.1	-0.2069409	0.04588619	9.20E-06
TA	T	0.08	-0.2148299	0.04776151	9.69E-06
G	A	0.08	-0.2130641	0.04666074	7.17E-06
C	T	0.02	-0.493499	0.1055058	4.37E-06
A	AT	0.03	-0.3723258	0.08247243	9.01E-06
G	C	0.48	-0.1177139	0.02618244	9.77E-06
AT	A	0.31	-0.129202	0.02876317	9.95E-06
G	C	0.02	-0.418966	0.08652051	2.06E-06
C	G	0.07	-0.2311772	0.05064263	7.22E-06
C	T	0.07	-0.2311772	0.05064263	7.22E-06
C	G	0.07	-0.2311772	0.05064263	7.22E-06
A	G	0.07	-0.2311772	0.05064263	7.22E-06
C	T	0.07	-0.2311772	0.05064263	7.22E-06
T	G	0.07	-0.2311772	0.05064263	7.22E-06
T	C	0.07	-0.2311772	0.05064263	7.22E-06
A	T	0.07	-0.2276029	0.05027476	8.52E-06
G	T	0.07	-0.2276029	0.05027476	8.52E-06
T	G	0.07	-0.2311772	0.05064263	7.22E-06
C	T	0.07	-0.2311772	0.05064263	7.22E-06
G	A	0.07	-0.2311772	0.05064263	7.22E-06
T	C	0.07	-0.2311772	0.05064263	7.22E-06
G	A	0.07	-0.2311772	0.05064263	7.22E-06
T	C	0.05	-0.2582751	0.0571434	8.80E-06
A	G	0.07	-0.2311772	0.05064263	7.22E-06
C	T	0.07	-0.2311772	0.05064263	7.22E-06
G	A	0.07	-0.2311772	0.05064263	7.22E-06
G	A	0.07	-0.2311772	0.05064263	7.22E-06
T	C	0.09	0.2139693	0.04665268	6.56E-06
G	C	0.05	0.2771115	0.06030643	6.31E-06
G	A	0.42	-0.1182046	0.02600599	7.87E-06
G	T	0.37	-0.1294767	0.02628715	1.40E-06
AT	A	0.37	-0.1288677	0.02625565	1.51E-06
TTTTA	T	0.02	-0.3908528	0.08647564	8.80E-06
C	T	0.14	-0.1710186	0.0374115	7.02E-06
G	A	0.12	-0.1875327	0.04134141	8.19E-06
C	T	0.06	0.2568393	0.05536117	5.18E-06
T	C	0.06	0.2525257	0.05476799	5.89E-06
A	T	0.08	0.2374684	0.04817318	1.37E-06
G	A	0.08	0.230614	0.04908338	3.97E-06
C	T	0.08	0.2280276	0.04920382	5.30E-06
AGGTGG	A	0.23	0.1451371	0.03159479	6.35E-06

G	A	0.27	-0.1310277	0.02890627	8.31E-06
G	GAAAGAAAGAAAGA/	0.03	-0.3739751	0.08184827	7.08E-06
G	A	0.16	0.168188	0.03514856	2.68E-06
A	G	0.02	-0.4594317	0.1010213	7.78E-06
AC	A	0.06	-0.2994257	0.05705679	2.98E-07
C	T	0.05	-0.2836533	0.05818302	1.77E-06
G	C	0.06	-0.2841691	0.05755285	1.32E-06
C	T	0.21	0.1514994	0.03092003	1.58E-06
G	A	0.16	-0.1627072	0.03153003	4.56E-07
T	A	0.13	-0.1811279	0.03863217	4.15E-06
T	C	0.13	-0.1849325	0.03869995	2.76E-06
T	C	0.13	-0.1815646	0.03865467	4.00E-06
A	G	0.13	-0.1876485	0.03860709	1.89E-06
G	A	0.13	-0.1849325	0.03869995	2.76E-06
A	C	0.13	-0.1849325	0.03869995	2.76E-06
C	G	0.13	-0.1849325	0.03869995	2.76E-06
T	G	0.13	-0.1849325	0.03869995	2.76E-06
A	G	0.13	-0.1849325	0.03869995	2.76E-06
C	T	0.38	0.1262725	0.02787341	8.41E-06
C	G	0.34	0.1277675	0.02838268	9.53E-06
T	C	0.34	0.1285228	0.02833886	8.23E-06
T	C	0.34	0.1282128	0.02840125	9.02E-06
A	G	0.34	0.1369574	0.02826085	2.02E-06
T	C	0.34	0.1275342	0.02839647	9.98E-06
G	A	0.03	-0.3463365	0.07449799	4.96E-06
C	T	0.18	0.1716341	0.0342096	9.07E-07
C	T	0.07	-0.2514953	0.05301006	3.23E-06
TACACAC	T	0.08	-0.2220835	0.04827429	6.16E-06
GCACACA	G	0.36	-0.121189	0.02691247	9.47E-06
G	A	0.34	-0.1239181	0.02757778	9.88E-06
A	G	0.35	-0.127727	0.02747409	4.96E-06
T	G	0.45	-0.1210793	0.02683778	9.13E-06
G	A	0.41	-0.1192882	0.02634728	8.51E-06
A	T	0.46	-0.1164445	0.02589077	9.71E-06
C	T	0.45	-0.1182116	0.02583195	6.87E-06
C	T	0.25	-0.1319219	0.0292946	9.46E-06
C	G	0.14	-0.1638323	0.0364734	9.95E-06
C	T	0.14	-0.1745149	0.03665303	2.99E-06
G	A	0.15	-0.1642538	0.03551301	5.52E-06
C	A	0.14	-0.1752736	0.03672801	2.84E-06
T	C	0.16	-0.1753875	0.03440103	6.15E-07
TG	T	0.4	-0.122005	0.02686365	8.00E-06
C	T	0.19	0.1514352	0.0331395	7.07E-06
C	T	0.18	0.1518649	0.03363666	9.00E-06
C	T	0.18	0.1518649	0.03363666	9.00E-06
G	A	0.18	0.1518649	0.03363666	9.00E-06
C	A	0.18	0.1518649	0.03363666	9.00E-06
G	T	0.18	0.1534339	0.03367735	7.51E-06
A	C	0.19	0.1519427	0.03293365	5.81E-06
A	G	0.2	0.1355776	0.02928772	5.42E-06

TAAGA	T	0.2	0.1469059	0.03156009	4.83E-06
A	T	0.11	-0.2010549	0.03994301	8.39E-07
T	A	0.11	-0.2069895	0.04227293	1.60E-06
G	A	0.02	-0.4623304	0.1001437	5.73E-06
C	A	0.02	-0.4623304	0.1001437	5.73E-06
G	A	0.03	-0.4209901	0.08149615	4.44E-07
T	C	0.01	-0.8644444	0.1431823	5.96E-09
T	C	0.01	0.9138426	0.1476585	2.38E-09
A	G	0.16	-0.1704973	0.02805699	4.20E-09
CT	C	0.01	0.4821593	0.08086658	9.00E-09
C	G	0.04	-0.6174494	0.1294316	2.87E-06
C	T	0.1	-0.401483	0.08879146	8.74E-06
C	G	0.36	-0.2426777	0.05354805	8.35E-06
C	A	0.1	-0.3806364	0.08462956	9.71E-06
C	G	0.08	0.4390754	0.09557514	6.35E-06
C	A	0.08	0.4390754	0.09557514	6.35E-06
A	G	0.08	0.4390754	0.09557514	6.35E-06
G	A	0.08	0.4390754	0.09557514	6.35E-06
C	T	0.08	0.4405049	0.09257983	3.03E-06
CTCT	C	0.08	0.5136781	0.09224426	5.97E-08
A	T	0.07	0.5335362	0.09978235	1.83E-07
A	T	0.01	-1.079205	0.2362613	7.13E-06
T	A	0.24	-0.2599296	0.05782391	9.81E-06
T	C	0.02	-0.872091	0.1746344	1.01E-06
A	G	0.2	-0.2907219	0.06436784	8.94E-06
G	A	0.2	-0.2949525	0.06466505	7.34E-06
T	C	0.24	-0.2897814	0.06335463	6.94E-06
C	T	0.27	-0.2590655	0.05722709	8.54E-06
A	G	0.22	-0.3089157	0.06298006	1.54E-06
T	C	0.22	-0.283527	0.06048176	4.17E-06
G	C	0.22	-0.2867098	0.06093037	3.85E-06
T	TA	0.02	-0.910773	0.1976467	5.96E-06
C	CT	0.02	-0.8727018	0.1898476	6.27E-06
G	T	0.35	0.2428776	0.05298964	6.65E-06
A	G	0.02	-0.8521358	0.1719706	1.22E-06
T	C	0.3	-0.2436195	0.05256032	5.29E-06
G	GCGGCGCACGAATT	0.02	-0.9640745	0.2114653	7.41E-06
G	A	0.08	-0.4552159	0.09798279	5.04E-06
C	T	0.08	-0.4552159	0.09798279	5.04E-06
A	G	0.08	-0.4552159	0.09798279	5.04E-06
A	G	0.07	-0.4460487	0.09843223	8.37E-06
T	G	0.07	-0.4460487	0.09843223	8.37E-06
A	G	0.13	-0.3378554	0.07453795	8.33E-06
A	T	0.02	-0.9653691	0.2017123	2.67E-06
T	C	0.48	0.2306014	0.05045872	7.06E-06
T	A	0.49	0.2376287	0.05072305	4.23E-06
T	G	0.03	-0.6936595	0.1471361	3.70E-06
A	G	0.46	-0.2547265	0.0494089	4.68E-07
C	CGT	0.01	1.050905	0.2276359	5.74E-06
G	A	0.01	-1.113126	0.2460318	8.64E-06

T	TTCTA	0.03	0.6766574	0.1430676	3.45E-06
AAGAT	A	0.04	-0.643281	0.1422261	8.69E-06
A	T	0.02	-0.9038734	0.1926879	4.11E-06
C	T	0.5	-0.2233141	0.04893265	7.26E-06
C	G	0.47	-0.2412754	0.05053767	2.82E-06
C	G	0.01	-1.097474	0.2288345	2.55E-06
T	C	0.03	-0.6967558	0.1526155	7.21E-06
G	C	0.02	-0.8046226	0.173162	5.02E-06
AAAATAAAT	A	0.03	-0.7370067	0.1623904	8.12E-06
GT	G	0.17	-0.3393241	0.06979146	1.88E-06
C	A	0.24	-0.28953	0.06083284	3.01E-06
G	A	0.22	-0.2942156	0.06265356	4.02E-06
G	A	0.21	-0.2733494	0.06070917	9.50E-06
T	C	0.21	-0.2775232	0.06072347	7.05E-06
G	T	0.17	-0.3295266	0.07049135	4.43E-06
C	T	0.21	-0.2853124	0.06090827	4.24E-06
C	T	0.01	-1.163501	0.2473961	3.89E-06
A	C	0.01	-1.208535	0.2280115	2.30E-07
G	A	0.06	0.5175688	0.1128372	6.55E-06
C	G	0.01	-1.124334	0.2404312	4.39E-06
C	CTTAT	0.46	0.2549338	0.04254458	7.92E-09
TA	T	0.01	-0.5512173	0.09036248	3.61E-09
G	A	0.01	-0.5908082	0.0917097	5.40E-10
A	G	0.01	-0.5908082	0.0917097	5.40E-10
A	G	0.01	-0.5908082	0.0917097	5.40E-10
C	T	0.01	-0.5908082	0.0917097	5.40E-10
G	A	0.01	-0.5908082	0.0917097	5.40E-10
T	C	0.01	-0.5908082	0.0917097	5.40E-10
ATGTGTGTGTG	A	0.01	-0.6242116	0.09180126	7.03E-11
G	A	0.01	-0.586366	0.08937982	2.80E-10
C	T	0.01	-0.586366	0.08937982	2.80E-10
G	C	0.35	-0.3016895	0.05661663	2.01E-07
G	A	0.35	-0.3016895	0.05661663	2.01E-07
A	G	0.35	-0.3016895	0.05661663	2.01E-07
T	C	0.35	-0.2964489	0.05650808	3.02E-07
C	T	0.34	-0.3044579	0.05660611	1.57E-07
C	T	0.34	-0.3032771	0.05679357	1.90E-07
T	C	0.33	-0.2659124	0.05768492	5.93E-06
T	G	0.34	-0.3007145	0.05664508	2.22E-07
C	A	0.34	-0.3005303	0.05669278	2.30E-07
C	CTA	0.34	-0.3007145	0.05664508	2.22E-07
C	T	0.34	-0.30325	0.05644735	1.62E-07
G	A	0.34	-0.2969715	0.05665659	3.09E-07
A	T	0.34	-0.3005303	0.05669278	2.30E-07
T	C	0.34	-0.2977571	0.05666863	2.90E-07
G	A	0.34	-0.2917344	0.05668821	4.91E-07
G	A	0.34	-0.3013682	0.05657589	2.03E-07
T	C	0.35	-0.298241	0.0565491	2.63E-07
A	G	0.35	-0.298241	0.0565491	2.63E-07
T	C	0.35	-0.2838948	0.05644121	8.57E-07

G	T	0.34	-0.3005303	0.05669278	2.30E-07
C	T	0.31	-0.3121287	0.05662007	7.98E-08
T	C	0.34	-0.2896858	0.05678826	6.10E-07
T	G	0.29	-0.2795902	0.05793716	2.23E-06
C	A	0.35	-0.2839306	0.05663104	9.26E-07
G	A	0.35	-0.2924113	0.05636043	4.01E-07
G	A	0.35	-0.296147	0.0564205	2.98E-07
A	G	0.35	-0.2818781	0.05636782	9.85E-07
T	C	0.35	-0.3010525	0.05640687	1.93E-07
G	A	0.34	-0.2993138	0.05660392	2.46E-07
A	G	0.34	-0.3014174	0.05674329	2.18E-07
G	A	0.34	-0.2997049	0.05644124	2.20E-07
A	G	0.34	-0.2997049	0.05644124	2.20E-07
C	CG	0.04	-0.6314767	0.1371023	6.04E-06
C	T	0.05	-0.6148747	0.1258838	1.70E-06
C	T	0.04	-0.608802	0.1323538	6.20E-06
T	G	0.04	-0.6396036	0.1347001	3.18E-06
GT	G	0.01	-1.081705	0.239675	9.09E-06
T	C	0.32	-0.2492206	0.05492349	8.17E-06
C	T	0.31	-0.2521086	0.05591003	9.25E-06
T	A	0.32	-0.2516332	0.0551589	7.34E-06
C	G	0.32	-0.2571846	0.05507809	4.54E-06
A	G	0.3	-0.2654708	0.05641926	3.86E-06
T	A	0.31	-0.2600396	0.0559677	5.04E-06
C	T	0.14	0.337924	0.07235667	4.53E-06
A	G	0.14	0.3412231	0.07321354	4.73E-06
C	T	0.15	0.3480663	0.07185014	2.05E-06
A	C	0.15	0.3351245	0.07214226	5.06E-06
A	C	0.19	0.2991656	0.06517895	6.48E-06
C	CACAGAGAG	0.02	-0.9262775	0.1972174	4.02E-06
G	A	0.47	-0.2315582	0.05057966	6.83E-06
C	A	0.01	-1.301687	0.2505126	3.86E-07
G	A	0.01	-1.282752	0.2510248	5.85E-07
G	T	0.01	-1.238077	0.2643784	4.27E-06
T	TTTTA	0.01	-1.12211	0.2300651	1.76E-06
G	A	0.27	-0.2627262	0.05716139	6.30E-06
A	G	0.27	-0.2739254	0.05732689	2.77E-06
T	C	0.26	-0.266942	0.05759086	5.30E-06
C	T	0.27	-0.2739254	0.05732689	2.77E-06
G	C	0.27	-0.2739254	0.05732689	2.77E-06
T	C	0.26	-0.2753379	0.05739412	2.54E-06
CAA	C	0.27	-0.2735845	0.05732402	2.85E-06
G	A	0.26	-0.2696946	0.05750481	4.14E-06
G	A	0.27	-0.2687549	0.05694426	3.62E-06
T	C	0.27	-0.2739254	0.05732689	2.77E-06
G	A	0.27	-0.2695735	0.05717214	3.70E-06
A	G	0.26	-0.2651721	0.05776928	6.47E-06
T	C	0.26	-0.2651721	0.05776928	6.47E-06
A	T	0.27	-0.278635	0.05706784	1.71E-06
T	C	0.26	-0.2632195	0.05755051	6.96E-06

A	G	0.26	-0.270661	0.05756603	3.93E-06
C	T	0.26	-0.2596154	0.05761105	9.37E-06
G	A	0.27	-0.2640842	0.05743065	6.24E-06
A	C	0.47	0.2356484	0.0519653	8.27E-06
T	C	0.44	-0.2392159	0.05265038	7.96E-06
T	A	0.5	-0.2350572	0.05035016	4.56E-06
T	G	0.45	-0.2372957	0.05244622	8.65E-06
C	CTTTCTTTCTTTCT	0.02	-0.7794284	0.1655919	3.84E-06
CTTG	C	0.03	-0.6636465	0.1365969	1.92E-06
G	A	0.02	-0.9588104	0.2009562	2.86E-06
G	A	0.25	-0.2953948	0.06242076	3.42E-06
T	A	0.25	-0.296569	0.06236653	3.08E-06
A	G	0.25	-0.2979517	0.06212425	2.56E-06
G	A	0.25	-0.2894198	0.06216623	4.84E-06
A	T	0.25	-0.2953948	0.06242076	3.42E-06
G	A	0.25	-0.2956587	0.06212431	3.03E-06
T	G	0.25	-0.2915592	0.06243889	4.54E-06
T	C	0.25	-0.2953948	0.06242076	3.42E-06
A	G	0.24	-0.2900703	0.06243667	5.05E-06
A	G	0.25	-0.2953948	0.06242076	3.42E-06
CT	C	0.02	-0.8329566	0.1845238	9.06E-06
T	TACACAC	0.03	-0.685098	0.1521605	9.53E-06
T	A	0.01	-1.035199	0.2206635	4.12E-06
A	G	0.25	0.2927713	0.06161994	3.14E-06
A	G	0.25	0.2827688	0.06158768	6.44E-06
G	T	0.24	0.2861206	0.06341938	9.16E-06
T	A	0.25	0.2879841	0.06202859	5.12E-06
G	C	0.25	0.2879865	0.06244038	5.87E-06
TTTC	T	0.02	-0.8606301	0.1851854	5.02E-06
C	A	0.01	-1.029603	0.2269981	8.24E-06
G	A	0.04	-0.6720125	0.145734	5.90E-06
C	T	0.01	-1.240975	0.2697887	6.20E-06
GC	G	0.01	-1.052825	0.2305562	7.19E-06
T	C	0.02	-0.9331323	0.2066694	9.02E-06
C	T	0.02	-0.9331323	0.2066694	9.02E-06
T	C	0.02	-0.9331323	0.2066694	9.02E-06
A	G	0.02	-0.9331323	0.2066694	9.02E-06
C	T	0.02	-0.9331323	0.2066694	9.02E-06
C	G	0.02	-0.9331323	0.2066694	9.02E-06
A	G	0.02	-0.9331323	0.2066694	9.02E-06
C	G	0.02	-0.9331323	0.2066694	9.02E-06
G	C	0.02	-0.9331323	0.2066694	9.02E-06
T	C	0.02	-0.9331323	0.2066694	9.02E-06
T	C	0.02	-0.9331323	0.2066694	9.02E-06
C	G	0.02	-0.9331323	0.2066694	9.02E-06
C	T	0.02	-0.9331323	0.2066694	9.02E-06
T	A	0.02	-0.9331323	0.2066694	9.02E-06
A	G	0.02	-0.9331323	0.2066694	9.02E-06
T	A	0.02	-0.9331323	0.2066694	9.02E-06
A	G	0.01	-1.127756	0.2465944	6.98E-06

AGT	A	0.09	-0.5401914	0.09704032	6.06E-08
G	C	0.04	-0.6205885	0.1376819	9.33E-06
A	C	0.05	-0.5352302	0.117261	7.26E-06
C	T	0.17	0.314974	0.06900594	7.26E-06
A	G	0.17	0.315691	0.0688266	6.57E-06
T	C	0.12	0.3689739	0.08200865	9.67E-06
C	T	0.01	-1.103384	0.2201235	9.31E-07
T	G	0.01	-0.6511144	0.1087428	7.51E-09
G	A	0.01	-0.6511144	0.1087428	7.51E-09
G	C	0.05	-0.3574792	0.05999955	9.14E-09
C	A	0.02	-0.461769	0.07777583	8.75E-09
C	T	0.01	-0.5458608	0.08551257	7.60E-10
C	T	0.01	-0.9284865	0.1542699	5.70E-09
T	G	0.04	-0.5007929	0.08231577	5.11E-09
G	A	0.04	-0.5007929	0.08231577	5.11E-09
T	A	0.02	0.8851822	0.1470078	7.09E-09
C	T	0.03	0.6565931	0.141475	5.15E-06
A	G	0.03	0.6565931	0.141475	5.15E-06
A	G	0.01	0.9941543	0.2205863	9.33E-06
C	T	0.01	0.9941543	0.2205863	9.33E-06
A	G	0.01	1.012898	0.2239397	8.69E-06
A	G	0.01	1.012898	0.2239397	8.69E-06
G	A	0.01	1.012898	0.2239397	8.69E-06
C	T	0.01	1.012898	0.2239397	8.69E-06
T	A	0.01	1.012898	0.2239397	8.69E-06
C	T	0.01	1.012898	0.2239397	8.69E-06
A	T	0.01	1.012898	0.2239397	8.69E-06
A	C	0.01	1.012898	0.2239397	8.69E-06
T	C	0.01	1.012898	0.2239397	8.69E-06
T	C	0.01	1.012898	0.2239397	8.69E-06
GTC	G	0.01	1.012898	0.2239397	8.69E-06
A	C	0.01	1.012898	0.2239397	8.69E-06
A	G	0.01	1.012898	0.2239397	8.69E-06
C	T	0.22	0.2725569	0.06060576	9.73E-06
C	T	0.12	-0.3323925	0.0731878	8.01E-06
T	TTTTTA	0.04	0.5688743	0.1250261	7.72E-06
G	C	0.35	0.2400932	0.05283816	7.93E-06
G	A	0.35	0.2394224	0.05280381	8.28E-06
C	A	0.35	0.243162	0.05252273	5.42E-06
C	G	0.35	0.2394224	0.05280381	8.28E-06
A	T	0.35	0.2394224	0.05280381	8.28E-06
G	A	0.17	-0.3002721	0.06635031	8.60E-06
G	A	0.02	0.8791101	0.176321	1.05E-06
G	T	0.15	0.3180596	0.07024682	8.51E-06
G	A	0.23	-0.2760315	0.06065344	7.69E-06
G	A	0.19	-0.2984633	0.06553411	7.57E-06
TCTTGACATTAAG	T	0.05	-0.5454117	0.1196152	7.39E-06
G	C	0.13	-0.3323305	0.07207876	5.90E-06
T	C	0.13	-0.3323305	0.07207876	5.90E-06
T	C	0.13	-0.3323305	0.07207876	5.90E-06

C	A	0.13	-0.3339975	0.07214047	5.42E-06
G	A	0.14	-0.3151164	0.07011394	9.86E-06
T	C	0.14	-0.3151164	0.07011394	9.86E-06
A	G	0.14	-0.3151164	0.07011394	9.86E-06
T	G	0.14	-0.3151164	0.07011394	9.86E-06
C	G	0.03	0.7122011	0.1542962	5.76E-06
C	T	0.01	1.173168	0.2450404	2.65E-06
C	T	0.01	1.087884	0.2399284	8.27E-06
T	C	0.02	0.8741983	0.1888517	5.43E-06
C	T	0.05	0.5568441	0.1145555	1.89E-06
GT	G	0.04	0.6179627	0.1332328	5.22E-06
T	TACACAC	0.09	-0.4606682	0.09304924	1.24E-06
G	A	0.17	0.2947984	0.06536783	9.21E-06
G	A	0.17	0.3074453	0.06603045	4.81E-06
T	TACAC	0.15	-0.3712402	0.07404996	9.25E-07
C	T	0.01	1.170331	0.2482398	3.70E-06
A	T	0.03	0.742078	0.1561906	3.13E-06
T	C	0.01	1.094065	0.2302251	3.12E-06
T	C	0.03	0.6693327	0.1364688	1.54E-06
T	C	0.03	0.6988671	0.1464827	2.86E-06
C	A	0.25	0.2771045	0.05606789	1.29E-06
A	T	0.27	0.2553568	0.05528465	5.68E-06
C	T	0.01	1.07219	0.2369255	8.60E-06
C	T	0.03	0.69181	0.1445854	2.69E-06
G	A	0.05	0.5774058	0.1241065	4.89E-06
C	T	0.34	0.2365301	0.05240307	9.06E-06
C	G	0.34	0.2368597	0.05198842	7.52E-06
T	G	0.39	0.2200153	0.04846215	8.07E-06
G	C	0.01	1.175806	0.257182	7.01E-06
A	G	0.01	1.175806	0.257182	7.01E-06
A	AT	0.22	0.2621804	0.05539003	3.40E-06
A	G	0.24	0.2726677	0.05986288	7.55E-06
C	T	0.24	0.2771271	0.06008747	5.86E-06
A	C	0.24	0.2762388	0.05984245	5.76E-06
T	C	0.24	0.2692179	0.05958603	8.88E-06
C	A	0.24	0.2736251	0.05980961	6.91E-06
G	A	0.24	0.2807372	0.06006755	4.45E-06
T	C	0.24	0.2702765	0.05935449	7.60E-06
C	T	0.24	0.2715493	0.05954059	7.36E-06
G	A	0.24	0.2717633	0.05944869	7.02E-06
C	T	0.11	0.355295	0.07749178	6.61E-06
G	A	0.12	0.3484707	0.07736172	9.43E-06
C	T	0.11	0.3788104	0.08026698	3.62E-06
A	AT	0.2	0.3039407	0.06497699	4.37E-06
C	CGTGTGTGTGTGT	0.01	1.067796	0.2203874	2.03E-06
A	T	0.43	-0.2483179	0.05113934	1.94E-06
T	C	0.43	-0.249624	0.05063923	1.37E-06
A	T	0.35	-0.2598787	0.05405995	2.42E-06
A	C	0.44	-0.2462153	0.05014256	1.50E-06
T	G	0.37	-0.261264	0.05306362	1.41E-06

G	T	0.44	-0.2592268	0.05016608	4.42E-07
T	C	0.03	0.3780047	0.05977788	1.06E-09
C	T	0.23	-0.175633	0.02970296	9.91E-09
T	G	0.03	0.3844412	0.06467998	8.50E-09
C	T	0.01	-0.9412856	0.1581035	7.92E-09
G	A	0.04	0.4968668	0.08168744	4.14E-09
A	G	0.02	0.7443633	0.1251911	8.63E-09
T	C	0.06	-0.2987557	0.05027893	8.46E-09
G	C	0.01	0.6152123	0.09946842	2.26E-09
C	T	0.02	0.6478204	0.1064099	4.59E-09
A	AT	0.02	1.076847	0.1750539	3.41E-09
G	A	0.02	-0.6910509	0.1140443	5.23E-09
A	G	0.02	-0.6910509	0.1140443	5.23E-09
C	CGTGTGT	0.01	1.093395	0.2376541	6.28E-06
G	C	0.02	-0.993295	0.2089554	3.16E-06
T	TA	0.02	-1.022584	0.1969295	4.03E-07
G	A	0.02	-1.029574	0.19989	4.94E-07
T	G	0.02	-1.029574	0.19989	4.94E-07
T	A	0.02	-1.029574	0.19989	4.94E-07
T	C	0.02	-1.029574	0.19989	4.94E-07
T	C	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-0.9898307	0.2132568	5.24E-06
C	A	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-0.9675792	0.1900269	6.55E-07
G	T	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-1.024801	0.2040607	9.12E-07
CA	C	0.02	-1.029574	0.19989	4.94E-07
C	T	0.02	-0.9898307	0.2132568	5.24E-06
G	A	0.02	-0.9898307	0.2132568	5.24E-06
GGTT	G	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-1.029574	0.19989	4.94E-07
ACATAGGC	A	0.02	-1.029574	0.19989	4.94E-07
A	T	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
C	T	0.02	-1.029574	0.19989	4.94E-07
G	A	0.02	-1.029574	0.19989	4.94E-07
C	A	0.02	-1.029574	0.19989	4.94E-07
C	T	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
T	C	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
C	A	0.02	-1.029574	0.19989	4.94E-07
G	T	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
A	G	0.02	-1.029574	0.19989	4.94E-07
C	T	0.02	-0.9996361	0.2076778	2.41E-06
A	G	0.02	-0.9996361	0.2076778	2.41E-06
C	G	0.02	-0.9996361	0.2076778	2.41E-06

T	C	0.02	-0.9996361	0.2076778	2.41E-06
A	G	0.02	-0.9996361	0.2076778	2.41E-06
G	GCAGCAGAATTAA	0.02	-0.9759446	0.2133487	7.06E-06
G	A	0.02	-0.9996361	0.2076778	2.41E-06
G	A	0.02	-0.9996361	0.2076778	2.41E-06
C	G	0.02	-0.9996361	0.2076778	2.41E-06
C	T	0.02	-0.9996361	0.2076778	2.41E-06
T	G	0.02	-0.9996361	0.2076778	2.41E-06
C	T	0.02	-1.023796	0.2162911	3.47E-06
G	A	0.02	-0.9996361	0.2076778	2.41E-06
ACTGAAAGCCTTTC	A	0.02	-0.9996361	0.2076778	2.41E-06
A	G	0.02	-0.9996361	0.2076778	2.41E-06
C	CA	0.12	0.4076357	0.0859832	3.35E-06
CGCA	C	0.21	0.3480701	0.06824781	6.29E-07
T	TAG	0.43	0.2793648	0.05963846	4.33E-06
T	A	0.06	0.558914	0.1192657	4.29E-06
T	C	0.06	0.558914	0.1192657	4.29E-06
G	T	0.06	0.558914	0.1192657	4.29E-06
C	T	0.06	0.558914	0.1192657	4.29E-06
G	A	0.06	0.558914	0.1192657	4.29E-06
C	T	0.06	0.558914	0.1192657	4.29E-06
C	T	0.06	0.558914	0.1192657	4.29E-06
G	A	0.06	0.558914	0.1192657	4.29E-06
C	T	0.06	0.558914	0.1192657	4.29E-06
A	T	0.06	0.558914	0.1192657	4.29E-06
C	T	0.06	0.558914	0.1192657	4.29E-06
T	TA	0.05	0.5858954	0.1291607	8.35E-06
C	T	0.05	0.5547768	0.1205905	6.29E-06
G	C	0.06	0.5568845	0.1199775	5.24E-06
A	G	0.06	0.5568845	0.1199775	5.24E-06
G	A	0.06	0.5568845	0.1199775	5.24E-06
T	A	0.06	0.5568845	0.1199775	5.24E-06
AGT	A	0.07	0.4972413	0.1104216	9.65E-06
G	C	0.05	0.5814085	0.122041	3.02E-06
TTATG	T	0.06	0.5314579	0.1165373	7.51E-06
A	G	0.06	0.5568845	0.1199775	5.24E-06
G	T	0.05	0.5541878	0.1206706	6.51E-06
A	G	0.05	0.5751799	0.1205554	2.92E-06
T	C	0.06	0.5568845	0.1199775	5.24E-06
C	A	0.06	0.5568845	0.1199775	5.24E-06
G	A	0.06	0.5568845	0.1199775	5.24E-06
G	C	0.06	0.5568845	0.1199775	5.24E-06
C	A	0.06	0.5568845	0.1199775	5.24E-06
A	G	0.06	0.5568845	0.1199775	5.24E-06
G	A	0.05	0.5751799	0.1205554	2.92E-06
C	T	0.05	0.5976672	0.1218069	1.57E-06
T	A	0.06	0.5817808	0.1194196	1.84E-06
G	A	0.06	0.5375314	0.1177463	7.35E-06
C	T	0.05	0.5596332	0.1208124	5.46E-06
A	AACAC	0.07	0.519286	0.1083725	2.66E-06

A	G	0.06	0.5727265	0.1187094	2.29E-06
A	G	0.06	0.5727265	0.1187094	2.29E-06
T	G	0.06	0.5506058	0.1181563	4.83E-06
C	T	0.06	0.5506058	0.1181563	4.83E-06
T	C	0.06	0.5334381	0.1176249	8.39E-06
TTATAA	T	0.06	0.561173	0.1180767	3.18E-06
TAGAA	T	0.06	0.5789004	0.1186182	1.77E-06
T	C	0.06	0.5506058	0.1181563	4.83E-06
T	C	0.06	0.5506058	0.1181563	4.83E-06
A	C	0.06	0.5506058	0.1181563	4.83E-06
C	T	0.06	0.5506058	0.1181563	4.83E-06
C	T	0.06	0.5506058	0.1181563	4.83E-06
A	G	0.06	0.5334381	0.1176249	8.39E-06
C	T	0.06	0.5334381	0.1176249	8.39E-06
T	G	0.06	0.5334381	0.1176249	8.39E-06
T	A	0.06	0.5334381	0.1176249	8.39E-06
G	A	0.06	0.5334381	0.1176249	8.39E-06
G	T	0.06	0.5506058	0.1181563	4.83E-06
A	G	0.06	0.5334381	0.1176249	8.39E-06
A	T	0.06	0.5506058	0.1181563	4.83E-06
G	T	0.06	0.5506058	0.1181563	4.83E-06
C	A	0.06	0.5334381	0.1176249	8.39E-06
T	C	0.06	0.5334381	0.1176249	8.39E-06
A	G	0.06	0.5334381	0.1176249	8.39E-06
T	TACAG	0.07	0.4929637	0.1076417	6.90E-06
T	C	0.07	0.4910817	0.1085534	8.81E-06
A	C	0.06	0.5562936	0.1204922	5.85E-06
CT	C	0.11	0.3963866	0.08577108	5.73E-06
G	T	0.01	1.15369	0.2533849	7.75E-06
A	AC	0.36	-0.245202	0.05432623	9.22E-06
C	G	0.36	-0.2460853	0.05454502	9.30E-06
T	A	0.31	0.2667964	0.05769671	5.66E-06
TA	T	0.31	0.274655	0.05760348	2.96E-06
G	A	0.09	-0.4215645	0.09208243	6.94E-06
T	C	0.23	-0.3179451	0.06454637	1.43E-06
C	G	0.23	-0.3179451	0.06454637	1.43E-06
C	T	0.41	0.2566289	0.0535886	2.70E-06
T	C	0.41	0.2627024	0.05349828	1.54E-06
C	T	0.01	-1.200195	0.2651498	8.71E-06
GCC	G	0.2	0.3046992	0.06673913	7.34E-06
G	T	0.06	-0.5307774	0.1165283	7.69E-06
C	T	0.05	-0.5617846	0.1228111	7.06E-06
C	CTGTG	0.02	-0.9169597	0.1943351	3.71E-06
CA	C	0.02	1.034238	0.2044005	7.62E-07
C	T	0.44	-0.2631769	0.05405512	1.87E-06
G	GT	0.1	0.4178101	0.09039448	5.72E-06
TA	T	0.2	0.3136444	0.06361047	1.40E-06
C	T	0.43	-0.2635628	0.05490395	2.56E-06
C	T	0.02	-0.4505155	0.07348	3.24E-09
G	T	0.02	-0.8879888	0.145553	3.80E-09

C	G	0.02	-0.896974	0.1485232	5.30E-09
AACAG	A	0.02	-0.896974	0.1485232	5.30E-09
T	C	0.02	-0.896974	0.1485232	5.30E-09
C	T	0.02	-0.896974	0.1485232	5.30E-09
G	A	0.02	-0.896974	0.1485232	5.30E-09
G	A	0.02	-0.896974	0.1485232	5.30E-09
T	A	0.02	-0.9368953	0.1446927	4.82E-10
A	G	0.02	0.7569632	0.1176597	6.47E-10
TA	T	0.01	-0.5652166	0.09262192	3.80E-09
T	A	0.01	0.826073	0.1370052	5.59E-09
C	T	0.02	-0.4237239	0.07043433	6.01E-09
A	C	0.02	0.9926065	0.2050251	2.07E-06
G	A	0.01	1.152796	0.2443503	3.64E-06
T	G	0.01	1.152796	0.2443503	3.64E-06
G	A	0.02	0.7573047	0.1674333	8.68E-06
TCACACACACA	T	0.02	0.8816601	0.1922223	6.55E-06
C	T	0.03	0.7754731	0.1632345	3.13E-06
GC	G	0.03	0.7754731	0.1632345	3.13E-06
C	T	0.03	0.844578	0.1695388	1.07E-06
.CCAAATTCTCTCACTG	C	0.03	0.7837552	0.1723298	7.78E-06
T	A	0.03	0.8082982	0.1676956	2.28E-06
C	T	0.05	0.5694329	0.1214702	4.17E-06
AT	A	0.06	0.5162	0.1118646	5.79E-06
GCACACA	G	0.02	0.8589088	0.1886494	7.61E-06
G	GCACACACACA	0.03	0.7470122	0.1650147	8.53E-06
T	C	0.02	0.8312551	0.1729763	2.44E-06
C	G	0.02	0.8312551	0.1729763	2.44E-06
C	A	0.01	1.114528	0.235862	3.52E-06
T	G	0.33	-0.2693448	0.05626826	2.66E-06
T	C	0.35	-0.2583471	0.05632598	6.55E-06
T	C	0.34	-0.2546169	0.05573892	7.12E-06
A	T	0.33	-0.2800033	0.05711657	1.56E-06
T	C	0.36	-0.2526414	0.05567071	8.12E-06
T	TTTCTC	0.32	-0.261013	0.05639093	5.44E-06
ATGTGTGTGTGTG	A	0.34	-0.2658769	0.05650878	3.85E-06
CA	C	0.34	-0.2667486	0.05547091	2.40E-06
C	T	0.01	1.295593	0.2540994	6.14E-07
C	G	0.07	0.479922	0.09767154	1.48E-06
G	T	0.12	-0.3688566	0.08161597	8.82E-06
T	C	0.06	-0.569826	0.1139679	9.84E-07
C	T	0.05	0.5827015	0.122915	3.28E-06
T	G	0.01	1.143632	0.2424254	3.64E-06
C	T	0.12	0.4680227	0.08627508	1.24E-07
T	A	0.01	1.035964	0.2225613	4.84E-06
T	TACACACACAC	0.01	-1.08997	0.2391414	7.45E-06
T	C	0.1	0.4122087	0.08966014	6.25E-06
G	T	0.09	0.4334824	0.0910143	2.96E-06
CT	C	0.1	0.4077232	0.08948085	7.49E-06
C	G	0.02	-0.9734197	0.2101899	5.37E-06
C	T	0.02	-0.9168256	0.2017369	7.89E-06

C	A	0.02	-1.015162	0.2199014	5.74E-06
T	G	0.02	-1.015162	0.2199014	5.74E-06
A	G	0.01	1.350227	0.2536473	2.05E-07
G	T	0.01	1.053291	0.2338223	9.41E-06
T	C	0.01	1.277626	0.263142	1.94E-06
C	T	0.35	-0.2418435	0.0517438	4.44E-06
A	T	0.04	0.6817654	0.1442075	3.48E-06
C	T	0.04	0.6460562	0.1415235	7.21E-06
T	G	0.01	1.132728	0.251511	9.45E-06
T	G	0.02	0.7955873	0.172863	6.11E-06
T	C	0.17	-0.3425514	0.07195261	2.99E-06
G	A	0.03	-0.7432625	0.1607958	5.59E-06
TG	T	0.41	0.2885512	0.05758738	9.35E-07
C	CGT	0.04	-0.6005227	0.1297692	5.46E-06
T	C	0.02	0.8362223	0.1792892	4.64E-06
A	T	0.02	0.8469642	0.1770382	2.69E-06
G	A	0.02	0.8469642	0.1770382	2.69E-06
AAAGGAAGGAAGG	A	0.22	0.2961839	0.06414757	5.72E-06
C	A	0.21	0.2970052	0.06315315	3.89E-06
A	C	0.26	0.2781456	0.0602582	5.75E-06
C	T	0.26	0.2786054	0.0606443	6.34E-06
T	C	0.26	0.283883	0.06037364	3.91E-06
TGAAAACACCCA	T	0.01	1.135975	0.2433751	4.56E-06
C	CT	0.01	1.271752	0.2616125	1.88E-06
G	A	0.01	1.279692	0.2650092	2.19E-06
G	T	0.05	-0.584758	0.1220278	2.59E-06
AACACACAC	A	0.01	1.110425	0.2462745	9.23E-06
T	G	0.47	-0.2610286	0.05194728	8.74E-07
C	T	0.01	1.234211	0.2499549	1.32E-06
C	A	0.01	1.180004	0.2511841	3.98E-06
T	A	0.01	1.107756	0.2338818	3.34E-06
T	G	0.01	0.9988742	0.222273	9.86E-06
G	A	0.01	1.163846	0.2401846	2.03E-06
G	C	0.04	0.6087341	0.1265093	2.37E-06
T	C	0.04	0.6121996	0.1225663	1.01E-06
A	T	0.04	0.6319259	0.1239481	6.15E-07
C	A	0.04	0.6319259	0.1239481	6.15E-07
G	A	0.04	0.6319259	0.1239481	6.15E-07
C	T	0.04	0.6319259	0.1239481	6.15E-07
G	A	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6319259	0.1239481	6.15E-07
TC	T	0.04	0.6350984	0.1248812	6.54E-07
C	T	0.04	0.6293794	0.1248232	8.05E-07
C	A	0.04	0.6293794	0.1248232	8.05E-07
C	G	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6098283	0.1233049	1.27E-06
T	A	0.04	0.6319259	0.1239481	6.15E-07
T	C	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6319259	0.1239481	6.15E-07

G	A	0.04	0.6319259	0.1239481	6.15E-07
T	C	0.04	0.6319259	0.1239481	6.15E-07
C	A	0.04	0.6319259	0.1239481	6.15E-07
T	TAACAA	0.04	0.6350984	0.1248812	6.54E-07
C	A	0.04	0.6319259	0.1239481	6.15E-07
C	T	0.04	0.6319259	0.1239481	6.15E-07
A	T	0.04	0.6319259	0.1239481	6.15E-07
C	T	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6319259	0.1239481	6.15E-07
T	G	0.04	0.6319259	0.1239481	6.15E-07
A	G	0.04	0.6319259	0.1239481	6.15E-07
C	T	0.04	0.5898004	0.1207835	1.70E-06
A	G	0.04	0.6319259	0.1239481	6.15E-07
G	A	0.04	0.6319259	0.1239481	6.15E-07
C	CT	0.04	0.612716	0.1242304	1.35E-06
C	T	0.04	0.6108962	0.1279928	2.83E-06
A	G	0.04	0.5610314	0.1228118	7.11E-06
AG	A	0.04	0.563151	0.1237217	7.65E-06
A	G	0.04	0.5610314	0.1228118	7.11E-06
G	A	0.12	0.3678215	0.08121039	8.45E-06
C	T	0.12	0.3679458	0.0797655	5.83E-06
A	G	0.12	0.3711766	0.08068026	6.16E-06
T	TTA	0.11	-0.3980873	0.08837415	9.41E-06
T	C	0.13	0.3621587	0.07600396	2.93E-06
C	T	0.11	0.368183	0.07922023	4.99E-06
A	G	0.13	0.3490756	0.07480846	4.59E-06
A	G	0.13	0.3481302	0.07545074	5.80E-06
A	G	0.48	0.2465074	0.05148239	2.64E-06
A	G	0.48	0.2389288	0.05124932	4.68E-06
A	G	0.13	-0.366823	0.08008318	6.73E-06
T	C	0.02	0.8506464	0.1822491	4.57E-06
T	C	0.02	0.9949917	0.1899511	3.12E-07
T	C	0.25	-0.2802093	0.06044212	5.26E-06
T	G	0.25	-0.2716429	0.06032887	9.49E-06
T	C	0.25	-0.2740807	0.06033709	7.97E-06
C	T	0.25	-0.2740807	0.06033709	7.97E-06
A	ATT	0.02	0.8586985	0.154523	6.32E-08
A	G	0.01	0.8350616	0.1368387	3.55E-09
G	A	0.31	-0.1772734	0.02972036	9.38E-09
C	G	0.02	-0.5751995	0.09332398	2.76E-09
C	T	0.02	-0.5393525	0.08960491	6.01E-09
C	A	0.02	-0.5956196	0.09776678	4.06E-09
T	G	0.02	-0.5956196	0.09776678	4.06E-09
G	A	0.12	0.2498253	0.0401232	1.85E-09
C	T	0.12	0.2448337	0.03933848	1.88E-09
A	G	0.12	0.2513933	0.03983786	1.16E-09
C	T	0.12	0.2806532	0.0469419	6.94E-09
T	C	0.02	0.5342671	0.08946185	7.19E-09
G	A	0.12	0.2801006	0.04704999	7.98E-09
C	T	0.12	0.2731857	0.04620849	9.94E-09

G	A	0.02	-0.8525975	0.142083	6.24E-09
G	C	0.04	-0.4010181	0.06190497	5.82E-10
GGTGTGTGTGTGT	G	0.01	-0.9142064	0.1465944	1.72E-09
T	C	0.01	-0.7991303	0.124811	7.73E-10
TATAG	T	0.11	-0.4182444	0.09023804	5.52E-06
C	T	0.02	-0.9715868	0.201922	2.49E-06
G	C	0.02	-1.048788	0.2288761	6.96E-06
C	T	0.14	0.3978017	0.08118154	1.66E-06
A	G	0.14	0.3809527	0.08087656	3.94E-06
T	C	0.02	1.006183	0.2133825	3.85E-06
C	T	0.01	1.482767	0.2838744	3.60E-07
C	T	0.19	0.3351151	0.0742126	9.32E-06
G	A	0.01	1.09198	0.2362289	5.83E-06
TAC	T	0.11	-0.4393095	0.09499482	5.78E-06
C	T	0.02	0.9496776	0.2088955	8.16E-06
G	T	0.02	0.9496776	0.2088955	8.16E-06
G	A	0.16	0.3840037	0.08395061	7.22E-06
TA	T	0.35	0.2619786	0.05814776	9.75E-06
G	T	0.34	0.2652926	0.05869631	9.16E-06
CT	C	0.35	0.2710532	0.05777358	4.29E-06
C	T	0.34	0.2695687	0.05925811	8.06E-06
C	CTTCTTTCTTTCTTTCT	0.03	-0.6320135	0.1373022	6.35E-06
T	A	0.12	-0.3782164	0.08306509	7.91E-06
A	ATC	0.01	1.212715	0.2637002	6.47E-06
T	C	0.03	0.7491557	0.1622062	5.93E-06
G	A	0.11	0.4212555	0.09267261	8.18E-06
A	AAT	0.44	0.2587999	0.05390694	2.62E-06
A	G	0.09	0.4548972	0.09900102	6.59E-06
G	A	0.16	0.3741515	0.08021551	4.84E-06
A	G	0.01	1.231514	0.2594045	3.33E-06
C	T	0.01	1.085123	0.2404603	9.44E-06
C	G	0.01	1.085123	0.2404603	9.44E-06
G	A	0.05	0.5831133	0.1269227	6.61E-06
G	C	0.05	0.5825198	0.1289247	9.21E-06
G	A	0.05	0.5825198	0.1289247	9.21E-06
T	ATCCATCCATCCGTCC)	0.39	-0.2622597	0.05802828	9.17E-06
A	G	0.05	-0.5524144	0.1217688	8.51E-06
G	A	0.02	1.025627	0.2203287	5.05E-06
A	T	0.02	1.025627	0.2203287	5.05E-06
G	A	0.03	0.6997628	0.1519424	6.29E-06
CG	C	0.03	0.6997628	0.1519424	6.29E-06
G	A	0.03	0.6997628	0.1519424	6.29E-06
T	C	0.03	0.7506178	0.153412	1.72E-06
C	G	0.49	-0.2540514	0.05347639	3.29E-06
C	A	0.48	-0.2524843	0.05357436	3.90E-06
C	T	0.48	-0.2441899	0.05366923	8.03E-06
GTGTCTATA	G	0.01	1.195752	0.2511094	3.12E-06
AAG	A	0.03	0.7534531	0.157062	2.66E-06
C	T	0.01	1.223556	0.2717224	9.85E-06
C	CCACCACA	0.01	1.240574	0.2680841	5.70E-06

G	A	0.2	0.3209725	0.06948383	5.91E-06
G	GAAC	0.01	-1.330803	0.2670979	1.13E-06
TA	T	0.06	0.5553385	0.1210792	6.83E-06
C	T	0.02	-0.9985189	0.218943	7.66E-06
C	T	0.06	0.5761154	0.1239483	5.21E-06
GC	G	0.02	-0.9644763	0.2086475	5.83E-06
T	A	0.04	-0.7440233	0.1455714	6.17E-07
CT	C	0.24	-0.296828	0.06554913	8.82E-06
G	C	0.01	1.078884	0.2228782	2.18E-06
T	TCAAA	0.31	-0.2888498	0.06256926	5.99E-06
CT	C	0.1	0.4353493	0.0958795	8.36E-06
TACAC	T	0.07	0.5158299	0.1098743	4.23E-06
G	A	0.16	0.3735143	0.08055613	5.48E-06
A	C	0.17	0.3746461	0.07712985	2.02E-06
G	A	0.17	0.3737876	0.07688004	1.98E-06
C	G	0.16	0.3708571	0.08035671	6.02E-06
T	C	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
T	C	0.15	0.3655351	0.08049264	8.34E-06
T	C	0.15	0.3655351	0.08049264	8.34E-06
A	G	0.15	0.3655351	0.08049264	8.34E-06
G	T	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
G	A	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.14	0.3735183	0.08072762	5.72E-06
T	C	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
C	T	0.15	0.3655351	0.08049264	8.34E-06
T	C	0.15	0.363119	0.07895895	6.47E-06
A	G	0.15	0.363119	0.07895895	6.47E-06
T	C	0.15	0.3655351	0.08049264	8.34E-06
C	CT	0.03	0.8231503	0.1807132	7.85E-06
G	A	0.03	0.7891649	0.1707015	5.82E-06
A	G	0.02	0.6876074	0.1043855	2.92E-10
C	T	0.35	-0.2837389	0.04601987	2.88E-09
C	T	0.03	0.3526216	0.0576657	3.72E-09
T	A	0.02	0.8668763	0.1424363	3.88E-09
G	A	0.02	0.8668763	0.1424363	3.88E-09
C	T	0.02	0.8668763	0.1424363	3.88E-09
C	A	0.02	0.8668763	0.1424363	3.88E-09
CAA	C	0.02	0.8668763	0.1424363	3.88E-09
A	G	0.02	0.8668763	0.1424363	3.88E-09
G	A	0.02	0.8668763	0.1424363	3.88E-09
C	A	0.02	0.8668763	0.1424363	3.88E-09
G	A	0.02	0.8668763	0.1424363	3.88E-09
T	C	0.02	0.8668763	0.1424363	3.88E-09
G	C	0.02	0.8668763	0.1424363	3.88E-09
TG	T	0.02	0.8668763	0.1424363	3.88E-09

G	A	0.02	0.8668763	0.1424363	3.88E-09
T	TAAAACA	0.02	0.8668763	0.1424363	3.88E-09
A	G	0.02	0.8668763	0.1424363	3.88E-09
C	T	0.02	0.8668763	0.1424363	3.88E-09
T	TAA	0.02	0.8668763	0.1424363	3.88E-09
C	T	0.02	0.8668763	0.1424363	3.88E-09
A	G	0.02	0.8668763	0.1424363	3.88E-09
T	C	0.02	0.8668763	0.1424363	3.88E-09
G	T	0.02	0.8668763	0.1424363	3.88E-09
T	G	0.02	0.8198832	0.1376287	7.79E-09
A	C	0.02	0.8058066	0.1362178	9.73E-09
G	T	0.01	-1.228163	0.2594351	3.39E-06
G	C	0.09	-0.449083	0.09412398	2.86E-06
C	T	0.09	-0.4740115	0.09427164	8.65E-07
A	G	0.09	-0.4740115	0.09427164	8.65E-07
A	G	0.09	-0.4740115	0.09427164	8.65E-07
G	A	0.09	-0.4740115	0.09427164	8.65E-07
C	T	0.09	-0.4606232	0.09383585	1.52E-06
T	C	0.08	-0.4782943	0.0945612	7.50E-07
C	T	0.08	-0.472851	0.09449243	9.69E-07
A	G	0.09	-0.4740115	0.09427164	8.65E-07
T	TCTATCTATCTATCTA	0.19	0.2998013	0.06218514	2.28E-06
C	T	0.04	-0.6016365	0.1334302	9.26E-06
T	G	0.01	-1.180599	0.2595493	7.78E-06
A	G	0.13	-0.377999	0.07914434	2.80E-06
T	G	0.13	-0.3595095	0.07894795	7.61E-06
C	T	0.13	-0.3663415	0.07945107	5.90E-06
T	A	0.13	-0.3699053	0.07891848	4.19E-06
A	G	0.14	-0.3673842	0.07799861	3.78E-06
A	G	0.14	-0.3673842	0.07799861	3.78E-06
C	T	0.02	-0.8772713	0.1926039	7.57E-06
C	G	0.04	-0.6019922	0.1263429	2.95E-06
T	TCA	0.02	-1.037843	0.194685	1.99E-07
G	GAGAAAGAA	0.04	-0.5052923	0.1086638	4.96E-06
A	G	0.38	-0.2432524	0.05305828	6.64E-06
C	T	0.01	-1.145275	0.2544899	9.62E-06
A	C	0.01	1.15102	0.2503402	6.26E-06
A	G	0.04	-0.6356395	0.1262816	8.43E-07
C	CAT	0.02	-0.8514169	0.1695759	8.95E-07
G	GGTGT	0.01	-1.139459	0.2438678	4.48E-06
A	G	0.2	0.2891107	0.06434169	9.92E-06
G	C	0.2	0.2955841	0.06423754	6.16E-06
T	C	0.2	0.2909506	0.06388687	7.59E-06
A	G	0.2	0.2959817	0.06384943	5.29E-06
T	C	0.2	0.2936814	0.06424408	7.04E-06
A	G	0.2	0.2887516	0.06395723	9.03E-06
A	G	0.2	0.3083579	0.06425455	2.52E-06
A	T	0.19	0.2956146	0.06414385	5.96E-06
C	A	0.19	0.309817	0.06474627	2.69E-06
T	C	0.03	0.6922032	0.1459347	3.25E-06

C	G	0.03	0.6922032	0.1459347	3.25E-06
G	T	0.03	0.6922032	0.1459347	3.25E-06
T	C	0.03	0.6812298	0.1475897	5.78E-06
T	TTCTCTCTCTC	0.01	-1.05486	0.2305381	6.91E-06
G	A	0.35	0.239602	0.05194168	5.85E-06
C	T	0.35	0.2420906	0.05204432	4.92E-06
C	T	0.35	0.2463352	0.05188003	3.18E-06
C	A	0.35	0.2378745	0.05182074	6.47E-06
G	T	0.34	0.242544	0.05215515	4.95E-06
C	T	0.35	0.2468206	0.05158743	2.70E-06
C	G	0.02	-0.8305924	0.1813386	6.76E-06
G	T	0.05	-0.544292	0.1198652	8.05E-06
C	G	0.41	-0.2451123	0.0505553	2.01E-06
T	C	0.41	-0.2486469	0.05090923	1.70E-06
T	C	0.45	-0.2405025	0.05072064	3.28E-06
G	T	0.45	-0.2400433	0.05129684	4.34E-06
G	A	0.45	-0.2366819	0.05107437	5.32E-06
A	C	0.45	-0.2366251	0.05092663	5.04E-06
T	C	0.43	-0.2469881	0.05108803	2.14E-06
T	C	0.37	-0.2599469	0.05321593	1.70E-06
T	C	0.42	-0.2449146	0.05271407	5.05E-06
T	C	0.37	-0.2539098	0.05291099	2.52E-06
A	G	0.37	-0.2562373	0.05247826	1.71E-06
T	C	0.37	-0.2582716	0.05242578	1.40E-06
T	C	0.42	-0.2421296	0.05204674	4.91E-06
T	G	0.43	-0.2452539	0.05203703	3.73E-06
T	C	0.42	-0.2394961	0.05233405	6.89E-06
A	G	0.42	-0.2394961	0.05233405	6.89E-06
T	C	0.37	-0.2582716	0.05242578	1.40E-06
G	A	0.45	-0.23184	0.05094826	7.72E-06
C	T	0.45	-0.23184	0.05094826	7.72E-06
A	T	0.45	-0.2337611	0.05091288	6.44E-06
C	T	0.5	-0.2333033	0.05129276	7.79E-06
C	G	0.46	-0.2437626	0.05089027	2.63E-06
T	A	0.46	-0.2426892	0.05096052	2.98E-06
T	C	0.45	-0.2346347	0.05088017	5.89E-06
G	T	0.45	-0.2326321	0.05082451	6.86E-06
T	C	0.45	-0.2298339	0.05089148	8.97E-06
G	C	0.46	-0.2294554	0.05071884	8.67E-06
T	C	0.04	-0.6437448	0.1424952	8.92E-06
G	A	0.03	-0.7128696	0.1531276	4.84E-06
G	T	0.04	-0.6305345	0.1366061	5.78E-06
T	C	0.04	-0.6437448	0.1424952	8.92E-06
G	T	0.38	-0.2444951	0.05414789	9.01E-06
G	A	0.39	-0.2463856	0.05419101	7.85E-06
A	G	0.39	-0.2464812	0.05367856	6.43E-06
T	C	0.39	-0.246228	0.05406008	7.57E-06
C	T	0.39	-0.2458855	0.05408256	7.85E-06
G	T	0.39	-0.2458855	0.05408256	7.85E-06
C	G	0.39	-0.2458855	0.05408256	7.85E-06

C	T	0.39	-0.2468089	0.05395527	6.95E-06
G	A	0.39	-0.2453029	0.05413027	8.38E-06
G	C	0.39	-0.2458855	0.05408256	7.85E-06
G	T	0.39	-0.2458855	0.05408256	7.85E-06
C	T	0.02	-0.8072365	0.1794233	9.67E-06
A	C	0.13	-0.3606293	0.07927094	7.76E-06
C	T	0.26	-0.2760305	0.05991607	6.01E-06
G	T	0.34	-0.2557332	0.05367493	2.95E-06
A	T	0.34	-0.255726	0.05379914	3.11E-06
T	C	0.37	-0.2750204	0.05287206	3.75E-07
A	G	0.37	-0.2657025	0.0529351	9.01E-07
C	T	0.28	0.2660834	0.05894706	9.06E-06
G	A	0.35	0.2611677	0.05608783	4.82E-06
A	G	0.35	0.2566579	0.05616393	7.09E-06
C	T	0.28	0.2652739	0.05873855	8.97E-06
A	G	0.28	0.2660753	0.0587615	8.52E-06
G	A	0.35	0.2527698	0.05597688	9.00E-06
G	A	0.28	0.273788	0.05883445	4.88E-06
G	A	0.28	0.2647812	0.05867298	9.11E-06
C	G	0.28	0.294234	0.05883346	9.83E-07
C	T	0.35	0.2580403	0.05599177	5.97E-06
G	A	0.35	0.2580403	0.05599177	5.97E-06
C	A	0.34	0.2596462	0.05551936	4.40E-06
G	A	0.35	0.2570105	0.05594369	6.36E-06
C	T	0.35	0.2541213	0.05599727	8.15E-06
G	A	0.35	0.2529893	0.05599539	8.90E-06
T	G	0.28	0.2741253	0.05878921	4.68E-06
A	C	0.35	0.2597886	0.0559627	5.13E-06
C	CT	0.27	0.286721	0.05898105	1.89E-06
C	T	0.27	0.2694319	0.05884941	6.82E-06
A	G	0.28	0.2840335	0.05878568	2.17E-06
C	T	0.35	0.2579157	0.05616773	6.43E-06
C	T	0.35	0.2554983	0.05609247	7.57E-06
G	C	0.35	0.2516639	0.05601708	9.95E-06
A	C	0.33	0.2584125	0.05599047	5.79E-06
A	G	0.34	0.258397	0.05634571	6.60E-06
A	G	0.35	0.2516639	0.05601708	9.95E-06
G	A	0.2	0.3083648	0.0635228	1.95E-06
C	T	0.19	0.3027161	0.0640432	3.51E-06
C	G	0.2	0.298041	0.06341222	3.96E-06
T	C	0.21	0.277358	0.06086473	7.50E-06
G	A	0.19	0.3027161	0.0640432	3.51E-06
C	CAGCTA	0.22	0.2981193	0.05830727	5.77E-07
G	A	0.2	0.2891184	0.06301952	6.54E-06
C	T	0.03	-0.6995731	0.1484388	3.73E-06
G	A	0.01	-1.051333	0.2249647	4.46E-06
T	A	0.32	-0.2465353	0.05450002	8.69E-06
G	A	0.26	-0.2651916	0.05655001	4.15E-06
T	C	0.27	-0.2667587	0.05623884	3.25E-06
G	A	0.26	-0.2702403	0.05639324	2.60E-06

C	T	0.02	-1.053917	0.2116519	1.09E-06
T	C	0.02	-1.053917	0.2116519	1.09E-06
G	T	0.02	-1.053917	0.2116519	1.09E-06
G	A	0.02	-1.053917	0.2116519	1.09E-06
TTGTGTG	T	0.12	-0.3863985	0.08428481	6.64E-06
T	C	0.25	-0.2673316	0.05918135	8.94E-06
C	G	0.25	-0.2673316	0.05918135	8.94E-06
G	T	0.06	-0.5394927	0.1130112	2.83E-06
G	A	0.06	-0.5223469	0.1132334	5.85E-06
A	G	0.03	-0.7523012	0.1559971	2.26E-06
T	C	0.2	-0.2867037	0.0613217	4.42E-06
T	A	0.15	-0.3433699	0.0746131	6.14E-06
C	T	0.03	-0.7358607	0.1621898	8.19E-06
G	GCACA	0.06	0.513601	0.1132358	8.24E-06
A	T	0.05	-0.5505272	0.110296	1.03E-06
A	G	0.02	-1.056421	0.2156655	1.59E-06
CA	C	0.03	-0.7756492	0.1561864	1.16E-06
T	A	0.03	-0.7306388	0.1565724	4.60E-06
C	G	0.03	-0.7306388	0.1565724	4.60E-06
T	C	0.03	-0.7306388	0.1565724	4.60E-06
A	G	0.03	-0.7306388	0.1565724	4.60E-06
G	C	0.03	-0.6680511	0.1476715	8.67E-06
ACAT	A	0.03	-0.7656415	0.170205	9.70E-06
GGT	G	0.04	0.5721295	0.1270108	9.44E-06
C	T	0.31	-0.2445065	0.05420847	9.20E-06
G	GAC	0.11	-0.3791376	0.0824953	6.31E-06
C	T	0.1	-0.4018293	0.08587624	4.35E-06
G	A	0.1	-0.3974854	0.08703571	7.18E-06
C	T	0.04	-0.6651206	0.1413955	3.89E-06
C	A	0.08	-0.4443722	0.09815959	8.56E-06
C	T	0.08	-0.4405967	0.09737551	8.64E-06
C	A	0.07	-0.4777184	0.09970414	2.61E-06
C	T	0.07	-0.4530707	0.09997263	8.37E-06
G	A	0.07	-0.4613326	0.1009654	7.10E-06
G	A	0.35	0.259919	0.053851	2.22E-06
T	A	0.01	-1.352493	0.2521868	1.69E-07
A	AT	0.08	-0.4091795	0.08919996	6.56E-06
C	T	0.01	-1.13124	0.2393603	3.52E-06
T	C	0.48	0.2439248	0.05362116	7.77E-06
C	T	0.48	0.2440126	0.05347351	7.29E-06
C	G	0.48	0.2443166	0.05344517	7.04E-06
G	A	0.48	0.2453357	0.0533398	6.21E-06
C	T	0.48	0.2425795	0.05359922	8.60E-06
G	GA	0.3	0.2489505	0.05435352	6.77E-06
T	G	0.32	0.250365	0.05530163	8.55E-06
G	A	0.32	0.2524881	0.05558395	7.99E-06
T	C	0.32	0.2608447	0.05605801	4.89E-06
C	T	0.32	0.2583908	0.05598526	5.79E-06
G	T	0.28	0.2628621	0.05822138	9.03E-06
C	G	0.32	0.2618488	0.05551512	3.67E-06

A	G	0.31	0.2575211	0.05601389	6.27E-06
A	G	0.31	0.2554141	0.055997	7.36E-06
A	C	0.31	0.2575211	0.05601389	6.27E-06
T	C	0.31	0.2575211	0.05601389	6.27E-06
G	A	0.28	0.2643503	0.05816287	7.91E-06
T	C	0.28	0.2618443	0.05819496	9.66E-06
C	T	0.28	0.2623403	0.05762275	7.64E-06
A	T	0.28	0.2637813	0.05797043	7.72E-06
G	A	0.28	0.2643503	0.05816287	7.91E-06
G	A	0.28	0.2626041	0.058207	9.16E-06
A	G	0.28	0.2679208	0.05778609	5.27E-06
C	T	0.28	0.2643503	0.05816287	7.91E-06
C	T	0.37	0.2623118	0.05433354	2.21E-06
G	C	0.37	0.2655153	0.05421372	1.60E-06
A	C	0.37	0.2610552	0.05384407	2.01E-06
A	G	0.39	-0.2393656	0.05134188	4.69E-06
A	C	0.39	-0.2325237	0.05150127	9.02E-06
C	G	0.38	-0.2430671	0.05152592	3.66E-06
T	C	0.49	-0.2325925	0.04989015	4.70E-06
C	CAA	0.01	-1.187265	0.2581766	6.23E-06
C	T	0.02	-1.029929	0.2103703	1.61E-06
G	A	0.02	-1.029929	0.2103703	1.61E-06
GA	G	0.02	-0.8983228	0.1987718	8.85E-06
T	C	0.03	-0.8392987	0.1641659	5.78E-07
G	A	0.03	-0.7421574	0.162245	6.95E-06
C	T	0.02	-1.011008	0.2055602	1.45E-06
G	'CCTTCCTTCCTTCCTTC	0.02	-0.7506339	0.1542438	1.85E-06
G	A	0.07	0.4845449	0.1066156	7.91E-06
G	A	0.06	0.5152845	0.1083685	3.09E-06
C	A	0.23	-0.2738284	0.06025805	7.93E-06
TTGTGTGTGTG	T	0.01	-1.145389	0.2486606	6.03E-06
C	T	0.01	-1.13008	0.2343702	2.27E-06
G	A	0.09	-0.4192416	0.09249117	8.34E-06
A	T	0.09	-0.4275002	0.09297192	6.25E-06
C	A	0.09	-0.4275002	0.09297192	6.25E-06
G	A	0.09	-0.4192416	0.09249117	8.34E-06
T	C	0.41	-0.230589	0.05079357	8.09E-06
A	T	0.41	-0.2310195	0.0509703	8.36E-06
C	T	0.03	-0.809671	0.1659912	1.75E-06
G	A	0.03	-0.809671	0.1659912	1.75E-06
G	A	0.06	-0.5336614	0.109703	1.86E-06
C	G	0.06	-0.5559788	0.1056516	2.79E-07
C	T	0.06	-0.5467587	0.1087757	8.72E-07
G	A	0.06	-0.5467587	0.1087757	8.72E-07
T	C	0.06	-0.5467587	0.1087757	8.72E-07
T	G	0.06	-0.5612275	0.1070652	3.08E-07
T	C	0.06	-0.5467587	0.1087757	8.72E-07
G	A	0.06	-0.5142162	0.1086702	3.43E-06
C	T	0.06	-0.5569051	0.1065454	3.32E-07
G	A	0.06	-0.5424817	0.1082333	9.33E-07

C	T	0.06	-0.5424817	0.1082333	9.33E-07
C	T	0.06	-0.5424817	0.1082333	9.33E-07
A	T	0.06	-0.5142162	0.1086702	3.43E-06
C	T	0.06	-0.5142162	0.1086702	3.43E-06
T	A	0.06	-0.5426904	0.1076512	8.13E-07
A	G	0.06	-0.5424817	0.1082333	9.33E-07
G	T	0.06	-0.3618725	0.0605268	7.71E-09
G	A	0.06	-0.3613453	0.06065192	8.62E-09
G	A	0.02	-0.6916486	0.112852	3.45E-09
A	G	0.02	-0.6916486	0.112852	3.45E-09
T	C	0.02	-0.6467532	0.106574	4.77E-09
C	T	0.02	-0.5033107	0.07762149	4.44E-10
T	C	0.02	-0.5033107	0.07762149	4.44E-10
G	T	0.02	-0.5033107	0.07762149	4.44E-10
G	A	0.02	-0.5033107	0.07762149	4.44E-10
A	G	0.22	-0.1441034	0.02375792	4.41E-09
T	C	0.09	0.4068376	0.09010754	8.99E-06
A	ATGTGTGTG	0.02	-0.9276887	0.1992664	4.82E-06
TTTCC	T	0.37	-0.2426247	0.05333274	7.74E-06
A	G	0.02	1.000109	0.2180217	6.54E-06
T	C	0.1	0.4006265	0.0865623	5.45E-06
C	T	0.1	0.4306588	0.08872567	1.95E-06
G	A	0.1	0.4012392	0.08911778	9.51E-06
T	C	0.1	0.4156899	0.08875416	4.25E-06
C	T	0.1	0.4101515	0.08966549	6.93E-06
G	C	0.08	0.4398893	0.09479496	5.16E-06
TC	T	0.08	0.4681406	0.09682991	2.13E-06
C	G	0.08	0.481343	0.09653927	1.05E-06
C	T	0.09	0.4264045	0.09154935	4.78E-06
CT	C	0.09	0.4208114	0.09160909	6.36E-06
T	C	0.03	-0.7404365	0.150368	1.41E-06
A	G	0.05	0.5787657	0.1261297	6.50E-06
C	A	0.24	0.2730505	0.06047373	8.99E-06
G	A	0.33	0.2521567	0.05537075	7.58E-06
C	A	0.42	0.2425443	0.0526901	6.09E-06
GA	G	0.42	-0.2199111	0.04885164	9.54E-06
C	T	0.02	-1.100916	0.2134253	4.61E-07
C	T	0.02	-0.7600967	0.1566762	1.97E-06
CCACA	C	0.02	0.8508941	0.1738378	1.61E-06
CTCA	C	0.01	-1.178705	0.2475302	2.98E-06
TTTTC	T	0.27	0.2750156	0.05731612	2.52E-06
T	G	0.02	-0.9842139	0.1984732	1.19E-06
T	C	0.02	-0.9734546	0.1980661	1.47E-06
TAGGGAAA	T	0.04	-0.6590843	0.1413226	4.65E-06
A	G	0.16	-0.3498747	0.07309621	2.66E-06
C	T	0.16	-0.3459362	0.07247374	2.83E-06
C	T	0.16	-0.3459362	0.07247374	2.83E-06
G	A	0.16	-0.3482639	0.07312222	2.97E-06
C	G	0.16	-0.3459362	0.07247374	2.83E-06
G	T	0.16	-0.3279803	0.07284004	9.49E-06

CTGTGTGTG	C	0.19	-0.3261405	0.07205751	8.57E-06
A	T	0.2	0.2953807	0.06476483	7.35E-06
ATG	A	0.05	0.5988818	0.1254975	2.84E-06
A	G	0.01	-1.109098	0.2282576	1.91E-06
C	T	0.01	-1.048738	0.2288535	6.68E-06
A	G	0.02	-0.7501922	0.1620415	5.41E-06
C	T	0.05	-0.5417944	0.1193566	8.08E-06
T	G	0.3	0.2646745	0.05784025	6.88E-06
G	A	0.3	0.2676784	0.05824676	6.30E-06
C	T	0.3	0.2714533	0.05797642	4.28E-06
A	T	0.3	0.2676784	0.05824676	6.30E-06
A	C	0.3	0.2676784	0.05824676	6.30E-06
G	C	0.3	0.279728	0.05755926	1.90E-06
A	G	0.3	0.2676784	0.05824676	6.30E-06
A	T	0.3	0.2807633	0.05832109	2.34E-06
G	A	0.3	0.2750704	0.05779179	3.01E-06
T	C	0.31	0.2583107	0.05619286	6.27E-06
C	G	0.3	0.2621033	0.05771433	8.01E-06
T	C	0.3	0.277817	0.05771689	2.35E-06
A	G	0.3	0.2676784	0.05824676	6.30E-06
G	T	0.3	0.2756261	0.05815744	3.30E-06
T	C	0.3	0.2734738	0.05783173	3.46E-06
C	A	0.3	0.2676784	0.05824676	6.30E-06
C	A	0.3	0.2764433	0.0583245	3.29E-06
T	C	0.3	0.2676784	0.05824676	6.30E-06
C	T	0.3	0.2676784	0.05824676	6.30E-06
C	A	0.31	0.2677904	0.05697127	3.94E-06
C	T	0.31	0.2622689	0.05754449	7.45E-06
G	A	0.3	0.2676784	0.05824676	6.30E-06
G	A	0.3	0.2676784	0.05824676	6.30E-06
C	T	0.3	0.2676784	0.05824676	6.30E-06
T	C	0.3	0.2705776	0.05803522	4.68E-06
T	A	0.3	0.2789188	0.05791856	2.33E-06
C	T	0.3	0.2653137	0.05765464	6.13E-06
G	A	0.31	0.2680607	0.05728204	4.33E-06
T	C	0.3	0.2714533	0.05797642	4.28E-06
CAT	C	0.01	-1.020385	0.2221006	6.34E-06
T	A	0.02	-0.9808424	0.2092867	4.19E-06
G	T	0.02	-0.9808424	0.2092867	4.19E-06
C	T	0.02	-1.039779	0.206039	7.89E-07
T	C	0.01	-1.054175	0.2267006	4.94E-06
C	T	0.02	-1.045393	0.2173937	2.40E-06
A	G	0.02	-1.045393	0.2173937	2.40E-06
C	T	0.01	-1.054175	0.2267006	4.94E-06
C	T	0.01	-1.08364	0.224079	2.12E-06
C	T	0.02	-0.8418808	0.1697869	1.20E-06
C	T	0.01	1.063881	0.2287052	4.90E-06
G	A	0.45	0.2519773	0.05242975	2.43E-06
A	C	0.21	-0.323532	0.06220401	3.74E-07
C	CTGTTTTGTTT	0.09	0.4319759	0.09416408	6.53E-06

C	T	0.12	0.3691259	0.08181766	9.13E-06
G	A	0.06	0.5152522	0.1067062	2.19E-06
T	C	0.06	0.5152522	0.1067062	2.19E-06
A	G	0.06	0.5280734	0.1084695	1.82E-06
A	C	0.06	0.5285138	0.1090066	2.00E-06
T	G	0.06	0.5285138	0.1090066	2.00E-06
A	G	0.06	0.5022895	0.1080713	4.99E-06
A	G	0.07	0.492008	0.1029532	2.75E-06
A	G	0.06	0.49042	0.1073472	7.10E-06
T	A	0.07	0.4902971	0.1068302	6.47E-06
C	T	0.07	0.5042315	0.1069219	3.67E-06
T	C	0.07	0.4922604	0.1050251	4.18E-06
C	A	0.07	0.5042315	0.1069219	3.67E-06
C	A	0.07	0.470074	0.1043811	9.46E-06
T	C	0.07	0.470074	0.1043811	9.46E-06
T	C	0.08	0.4057522	0.08909987	7.58E-06
AAAATAAAT	A	0.03	-0.819874	0.1615307	6.86E-07
G	T	0.02	0.8818713	0.1895467	4.89E-06
G	T	0.03	-0.7430328	0.1606939	5.55E-06
G	A	0.03	-0.6733254	0.1445821	4.79E-06
C	CA	0.02	0.9026247	0.1968498	6.59E-06
G	A	0.01	-0.6736904	0.1109609	4.87E-09
T	A	0.01	0.7795546	0.1275474	3.37E-09
A	G	0.02	-1.072061	0.1694491	1.41E-09
CA	C	0.01	1.19936	0.1989509	8.50E-09
C	T	0.05	-0.5263985	0.08801869	6.86E-09
C	T	0.01	0.7518922	0.123483	3.99E-09
G	T	0.02	0.7061981	0.1174241	5.72E-09
C	T	0.02	0.787175	0.1249066	1.18E-09
T	A	0.02	0.8307617	0.1262659	2.46E-10
A	G	0.02	0.787175	0.1249066	1.18E-09
A	G	0.02	0.787175	0.1249066	1.18E-09
A	G	0.02	0.787175	0.1249066	1.18E-09
T	A	0.02	0.815811	0.1278189	7.52E-10
A	G	0.02	0.787175	0.1249066	1.18E-09
C	CCTCTCT	0.02	0.787175	0.1249066	1.18E-09
T	C	0.02	0.787175	0.1249066	1.18E-09
T	A	0.02	0.83394	0.1279971	3.55E-10
G	A	0.02	0.83394	0.1279971	3.55E-10
C	T	0.02	0.83394	0.1279971	3.55E-10
C	A	0.02	0.83394	0.1279971	3.55E-10
CAA	C	0.02	0.83394	0.1279971	3.55E-10
A	G	0.02	0.83394	0.1279971	3.55E-10
G	A	0.02	0.83394	0.1279971	3.55E-10
C	A	0.02	0.83394	0.1279971	3.55E-10
G	A	0.02	0.83394	0.1279971	3.55E-10
T	C	0.02	0.83394	0.1279971	3.55E-10
G	C	0.02	0.83394	0.1279971	3.55E-10
TG	T	0.02	0.83394	0.1279971	3.55E-10
G	A	0.02	0.83394	0.1279971	3.55E-10

T	TAAAACA	0.02	0.83394	0.1279971	3.55E-10
A	G	0.02	0.83394	0.1279971	3.55E-10
C	T	0.02	0.83394	0.1279971	3.55E-10
T	TAA	0.02	0.83394	0.1279971	3.55E-10
C	T	0.02	0.83394	0.1279971	3.55E-10
A	G	0.02	0.83394	0.1279971	3.55E-10
T	C	0.02	0.83394	0.1279971	3.55E-10
G	T	0.02	0.83394	0.1279971	3.55E-10
C	T	0.01	0.7916753	0.1320149	6.28E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
T	A	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
AT	A	0.02	0.733429	0.1215907	5.20E-09
A	T	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
T	G	0.02	0.7809367	0.1236105	1.08E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
C	G	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
C	G	0.02	0.733429	0.1215907	5.20E-09
C	G	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
A	C	0.02	0.733429	0.1215907	5.20E-09
C	A	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
A	T	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
G	C	0.02	0.733429	0.1215907	5.20E-09
AACTCT	A	0.02	0.733429	0.1215907	5.20E-09
G	GT	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
G	C	0.02	0.733429	0.1215907	5.20E-09
T	G	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
A	T	0.02	0.733429	0.1215907	5.20E-09
C	G	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
T	A	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09

C	T	0.02	0.733429	0.1215907	5.20E-09
C	G	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
G	T	0.02	0.733429	0.1215907	5.20E-09
G	C	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.7455384	0.1232599	4.75E-09
T	G	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
A	C	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
A	G	0.02	0.733429	0.1215907	5.20E-09
G	T	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
G	C	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
CA	C	0.02	0.733429	0.1215907	5.20E-09
A	T	0.02	0.7552235	0.1272606	8.78E-09
A	T	0.02	0.733429	0.1215907	5.20E-09
C	T	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
T	C	0.02	0.733429	0.1215907	5.20E-09
G	A	0.02	0.733429	0.1215907	5.20E-09
A	C	0.02	0.7744935	0.1225471	1.07E-09
ATGTGTGTGTG	A	0.01	-0.5953721	0.09617373	2.23E-09
G	A	0.01	-0.5880949	0.09348977	1.28E-09
C	T	0.01	-0.5880949	0.09348977	1.28E-09
T	TAC	0.01	0.7270138	0.1217469	8.22E-09
T	C	0.5	-0.1075613	0.01808753	8.34E-09
GGTGTGTGTGTGT	G	0.01	-1.028624	0.1606965	6.78E-10
AAC	A	0.02	-0.4323209	0.0719517	5.92E-09
G	GA	0.01	-0.623916	0.1029227	4.74E-09
T	A	0.01	0.8328709	0.1343937	2.11E-09
AT	A	0.06	-0.2852345	0.04783878	7.80E-09
A	G	0.02	-0.434005	0.07075362	3.65E-09
T	C	0.02	-0.434005	0.07075362	3.65E-09
A	T	0.02	-0.434005	0.07075362	3.65E-09
C	T	0.02	-0.8608447	0.1427733	5.35E-09
T	A	0.01	0.8133646	0.1302878	1.94E-09
T	A	0.01	0.7590276	0.1216301	1.71E-09
G	A	0.16	0.1839719	0.02960299	2.39E-09

G	A	0.01	0.5664787	0.09566501	9.89E-09
C	T	0.01	0.5664787	0.09566501	9.89E-09
C	T	0.02	0.3331943	0.05633493	9.85E-09
GGTGTGTGTGTGT	G	0.01	-1.029631	0.1606284	6.45E-10
TA	T	0.01	-0.4617451	0.07715695	6.76E-09
TCA	T	0.14	0.340049	0.05627852	4.92E-09
A	G	0.02	-0.6712732	0.109299	2.90E-09
G	A	0.08	-0.354737	0.05970791	8.58E-09
G	A	0.08	-0.3628346	0.06006758	5.03E-09
G	T	0.08	-0.3627313	0.06028243	5.71E-09
CA	C	0.1	0.1826885	0.03037785	5.82E-09
C	T	0.02	-0.9106573	0.149708	4.43E-09
C	G	0.3	0.2233549	0.03740046	8.13E-09
G	A	0.3	0.2229	0.03754631	9.79E-09
C	G	0.3	0.2226149	0.03743506	9.29E-09
A	G	0.3	0.2248806	0.03738501	6.46E-09
T	C	0.3	0.2248806	0.03738501	6.46E-09
C	A	0.29	0.2236811	0.03744886	8.08E-09
T	G	0.29	0.2326314	0.03723286	1.84E-09
T	C	0.3	0.2248806	0.03738501	6.46E-09
A	G	0.29	0.2236595	0.03738712	7.70E-09
C	G	0.3	0.2248806	0.03738501	6.46E-09
T	C	0.01	-0.987383	0.1595234	3.01E-09
A	G	0.08	-0.2249306	0.04699108	2.66E-06
TA	T	0.11	0.2044862	0.04051079	7.84E-07
A	C	0.3	0.1237602	0.02690971	6.20E-06
T	A	0.02	0.4373014	0.09257629	3.54E-06
G	A	0.03	0.334331	0.07148265	4.37E-06
G	T	0.04	0.2957688	0.05901025	9.28E-07
G	T	0.04	0.2957688	0.05901025	9.28E-07
A	G	0.04	0.2854449	0.05865303	1.84E-06
G	A	0.04	0.2834163	0.05981997	3.32E-06
C	T	0.05	0.2904836	0.05768516	8.30E-07
A	C	0.05	0.2530418	0.05485532	5.83E-06
A	C	0.05	0.2701145	0.05591608	2.17E-06
G	A	0.01	0.5745961	0.1254595	6.75E-06
G	GGTGTGT	0.1	0.2181988	0.04436441	1.44E-06
T	TCTTTC	0.04	0.3145988	0.06672259	3.68E-06
C	A	0.49	-0.1123027	0.02468071	7.70E-06
G	A	0.5	-0.111075	0.02470745	9.79E-06
T	TGG	0.03	0.3666186	0.0787978	4.88E-06
G	T	0.49	-0.1218856	0.02616528	4.76E-06
A	T	0.49	-0.1219428	0.02619408	4.82E-06
G	A	0.31	-0.1244798	0.02730701	7.42E-06
G	A	0.31	-0.12302	0.02681672	6.53E-06
T	C	0.3	-0.1249374	0.02729789	6.85E-06
T	C	0.31	-0.1224094	0.02686144	7.47E-06
C	T	0.3	-0.1241104	0.02710473	6.78E-06
T	TG	0.12	-0.1849821	0.03838749	2.29E-06
G	GACAA	0.46	-0.1131433	0.02445361	5.48E-06

C	T	0.25	-0.1487045	0.03037767	1.61E-06
C	A	0.02	0.4849181	0.1037751	4.46E-06
TGTGTGTGTGTGTGT	T	0.01	0.4985899	0.1091665	7.14E-06
A	G	0.36	-0.1220445	0.02603564	4.17E-06
T	A	0.36	-0.1195673	0.02592632	5.86E-06
C	A	0.36	-0.117731	0.02577018	7.10E-06
C	T	0.35	-0.1174645	0.02598602	8.78E-06
A	G	0.36	-0.1217394	0.02575568	3.49E-06
T	C	0.36	-0.1217394	0.02575568	3.49E-06
G	A	0.36	-0.1195545	0.02573899	5.05E-06
G	C	0.36	-0.1195545	0.02573899	5.05E-06
T	C	0.36	-0.1162357	0.02569723	8.67E-06
TTCC	T	0.36	-0.1194327	0.02574666	5.19E-06
G	GA	0.36	-0.1234363	0.02573155	2.53E-06
A	T	0.36	-0.1217394	0.02575568	3.49E-06
G	A	0.36	-0.1256979	0.02575601	1.72E-06
A	C	0.36	-0.1217394	0.02575568	3.49E-06
T	C	0.36	-0.1163407	0.02561192	7.97E-06
C	G	0.01	0.5331113	0.1180289	8.92E-06
T	A	0.03	0.3410676	0.07589411	9.86E-06
A	T	0.03	0.3410676	0.07589411	9.86E-06
C	G	0.09	-0.1954992	0.04332242	9.08E-06
TA	T	0.29	0.1271025	0.02790632	7.55E-06
G	A	0.24	0.2794553	0.0578932	2.21E-06
AAC	A	0.05	0.5718305	0.1242221	6.09E-06
C	T	0.09	0.4232525	0.09324444	8.09E-06
A	G	0.26	-0.2810603	0.05752227	1.68E-06
C	CGT	0.03	0.6916249	0.1502714	6.11E-06
G	A	0.05	0.5629066	0.124783	9.15E-06
G	A	0.05	0.5942955	0.1194003	1.10E-06
AC	A	0.2	0.2906544	0.062946	5.72E-06
A	C	0.13	-0.3583643	0.07903648	8.27E-06
C	A	0.13	-0.3583643	0.07903648	8.27E-06
T	A	0.13	-0.3583643	0.07903648	8.27E-06
G	A	0.13	-0.3583643	0.07903648	8.27E-06
A	T	0.13	-0.3583643	0.07903648	8.27E-06
A	G	0.13	-0.3583643	0.07903648	8.27E-06
C	T	0.13	-0.3583643	0.07903648	8.27E-06
T	C	0.13	-0.3668724	0.07904823	5.15E-06
G	T	0.13	-0.3589133	0.07916711	8.29E-06
C	T	0.13	-0.3589133	0.07916711	8.29E-06
CA	C	0.13	-0.3798861	0.080005	3.17E-06
G	A	0.09	0.4066923	0.08807799	5.72E-06
CT	C	0.14	-0.3146341	0.06866493	6.69E-06
CTATT	C	0.02	-0.9338478	0.2066863	8.87E-06
T	A	0.43	-0.2361646	0.05076638	4.90E-06
T	C	0.01	-1.146631	0.2539341	8.98E-06
T	C	0.01	-1.146631	0.2539341	8.98E-06
C	G	0.01	-1.146631	0.2539341	8.98E-06
T	A	0.05	0.4918378	0.1077567	7.24E-06

G	A	0.05	0.5262503	0.1143496	6.12E-06
A	T	0.12	0.3741407	0.07913019	3.47E-06
G	A	0.12	0.3861492	0.08171539	3.52E-06
C	T	0.09	0.5054727	0.09237188	9.75E-08
C	A	0.12	0.3861492	0.08171539	3.52E-06
C	T	0.12	0.3845174	0.08187991	4.02E-06
C	A	0.08	0.4445779	0.094185	3.60E-06
C	T	0.12	0.3861492	0.08171539	3.52E-06
C	T	0.11	0.4051922	0.08414174	2.33E-06
G	A	0.11	0.4020895	0.08413405	2.75E-06
G	A	0.08	0.434428	0.09504623	7.04E-06
C	T	0.01	-1.12599	0.2413173	4.60E-06
A	G	0.01	-1.12599	0.2413173	4.60E-06
A	T	0.01	-1.12599	0.2413173	4.60E-06
C	T	0.01	-1.12599	0.2413173	4.60E-06
G	A	0.01	-1.151741	0.2486557	5.36E-06
G	C	0.04	-0.6486482	0.1349695	2.44E-06
G	A	0.04	-0.6486482	0.1349695	2.44E-06
A	G	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.03	-0.6882627	0.1443465	2.90E-06
C	T	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.04	-0.6388874	0.1384036	5.75E-06
C	T	0.04	-0.6388874	0.1384036	5.75E-06
C	A	0.04	-0.6388874	0.1384036	5.75E-06
C	A	0.04	-0.6388874	0.1384036	5.75E-06
GC	G	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.04	-0.6388874	0.1384036	5.75E-06
C	T	0.04	-0.6388874	0.1384036	5.75E-06
A	T	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.04	-0.6388874	0.1384036	5.75E-06
G	A	0.04	-0.6388874	0.1384036	5.75E-06
G	C	0.47	0.2593417	0.05495493	3.62E-06
A	T	0.02	0.9118769	0.1988923	6.61E-06
A	G	0.02	0.8822061	0.195099	8.73E-06
TATCCATCCATCC	T	0.02	0.8993837	0.1950931	5.91E-06
C	T	0.01	1.12785	0.2493443	8.68E-06
T	G	0.28	-0.270057	0.05928614	7.54E-06
C	G	0.17	-0.3442399	0.07187015	2.62E-06
C	T	0.17	-0.3436381	0.07194159	2.79E-06
GT	G	0.11	-0.4002776	0.08442359	3.27E-06
C	T	0.17	-0.3489057	0.07187598	1.95E-06
T	A	0.17	-0.340996	0.07141019	2.80E-06
G	A	0.17	-0.340996	0.07141019	2.80E-06
T	C	0.17	-0.3436381	0.07194159	2.79E-06
C	T	0.13	-0.3679702	0.07986906	5.99E-06
C	T	0.01	-1.175804	0.2594084	8.33E-06
C	T	0.09	0.4386491	0.0952603	6.05E-06
T	A	0.2	0.2852471	0.06261645	7.53E-06
T	G	0.32	0.2364815	0.05194929	7.64E-06

C	T	0.32	0.245948	0.052313	3.92E-06
G	A	0.27	0.2562074	0.05676053	9.05E-06
C	A	0.27	0.2573855	0.05527602	4.81E-06
T	A	0.06	-0.5282185	0.1157752	7.30E-06
A	G	0.49	-0.2340064	0.05202555	9.70E-06
C	T	0.49	-0.2340064	0.05202555	9.70E-06
G	A	0.49	-0.2340064	0.05202555	9.70E-06
C	T	0.49	-0.2340064	0.05202555	9.70E-06
A	G	0.45	-0.2642364	0.05242069	8.12E-07
G	A	0.49	-0.2356943	0.05173002	7.51E-06
T	G	0.49	-0.2360445	0.05198025	8.03E-06
T	C	0.49	-0.2390333	0.05186452	5.94E-06
A	T	0.44	-0.2485364	0.0532375	4.55E-06
T	C	0.44	-0.2458256	0.05331854	5.90E-06
A	T	0.44	-0.2416381	0.05324314	8.12E-06
A	G	0.44	-0.2416381	0.05324314	8.12E-06
T	C	0.44	-0.2509502	0.05320353	3.66E-06
C	A	0.42	-0.2452015	0.05301514	5.53E-06
C	T	0.44	-0.2485364	0.0532375	4.55E-06
G	A	0.44	-0.2485364	0.0532375	4.55E-06
T	A	0.44	-0.24268	0.05323181	7.42E-06
T	C	0.44	-0.2483749	0.05335947	4.84E-06
C	T	0.44	-0.2416381	0.05324314	8.12E-06
GT	G	0.44	-0.2437864	0.05314488	6.54E-06
G	T	0.44	-0.2439945	0.05287764	5.80E-06
C	T	0.44	-0.2533181	0.05312987	2.90E-06
C	T	0.44	-0.2500233	0.05294225	3.56E-06
G	A	0.02	-0.8569995	0.1851442	5.44E-06
GC	G	0.02	-0.9489123	0.1942434	1.69E-06
T	G	0.02	-0.8651532	0.1815294	2.93E-06
T	A	0.04	-0.6479623	0.1371171	3.52E-06
G	T	0.01	-1.04437	0.2114692	1.31E-06
C	T	0.02	-0.7909199	0.1694993	4.60E-06
T	A	0.02	-0.8099506	0.1720991	3.84E-06
AAAAG	A	0.34	0.2629505	0.05353172	1.49E-06
G	A	0.36	0.2462305	0.05256051	4.23E-06
G	A	0.36	0.2499858	0.05253412	3.03E-06
G	T	0.37	0.2363451	0.05242731	9.28E-06
C	T	0.1	0.4015553	0.08684071	5.55E-06
T	C	0.1	0.3884834	0.08544583	7.83E-06
A	C	0.1	0.3838818	0.08539468	9.81E-06
G	A	0.1	0.3898062	0.08496646	6.53E-06
A	C	0.1	0.4018931	0.08716089	5.89E-06
G	C	0.1	0.4243115	0.08781607	2.16E-06
A	T	0.07	-0.4617133	0.09912204	4.77E-06
C	T	0.09	0.2471164	0.03999875	2.42E-09
ATCTG	A	0.01	-0.7209416	0.1211446	8.02E-09
G	A	0.28	-0.2257321	0.03720084	5.24E-09
C	T	0.01	0.8042983	0.1312286	3.21E-09
T	G	0.02	-0.5359769	0.08604655	1.78E-09

A	G	0.45	-0.1431797	0.02410404	8.57E-09
C	T	0.01	0.5216062	0.08754473	9.03E-09
C	G	0.01	0.5216062	0.08754473	9.03E-09
T	C	0.01	-0.7803868	0.1300928	6.21E-09
T	C	0.02	-0.6232226	0.1035982	5.66E-09
T	C	0.01	-0.871157	0.1438134	4.55E-09
T	G	0.01	1.121914	0.2375227	3.55E-06
T	C	0.03	0.8029344	0.1510944	2.15E-07
C	T	0.04	0.5876111	0.1298101	8.54E-06
C	T	0.04	0.5876111	0.1298101	8.54E-06
G	C	0.04	0.6469164	0.1264917	5.70E-07
T	A	0.07	0.4525426	0.0976451	5.30E-06
T	G	0.06	0.5593095	0.1075876	3.79E-07
A	G	0.22	0.269843	0.05913654	7.28E-06
G	A	0.22	0.2754734	0.05945271	5.32E-06
C	T	0.22	0.2690807	0.05952153	8.77E-06
G	A	0.02	1.035602	0.2118223	1.66E-06
C	T	0.02	0.8715572	0.1781676	1.64E-06
G	A	0.02	0.9835602	0.1888587	3.62E-07
G	C	0.02	0.8715572	0.1781676	1.64E-06
G	A	0.02	0.8715572	0.1781676	1.64E-06
G	T	0.21	0.2892327	0.06429857	9.68E-06
T	C	0.19	0.300324	0.06600881	7.72E-06
G	GAC	0.21	0.2914177	0.06461889	9.20E-06
G	C	0.21	0.2921348	0.06423979	7.79E-06
CT	C	0.2	0.2924652	0.06510357	9.93E-06
C	G	0.21	0.2904498	0.06420126	8.64E-06
T	G	0.21	0.2954248	0.06422845	6.19E-06
C	G	0.21	0.2915869	0.06432125	8.30E-06
T	C	0.21	0.2915869	0.06432125	8.30E-06
A	G	0.25	0.2661399	0.05909079	9.44E-06
CACTT	C	0.03	0.6664155	0.1455336	6.78E-06
CT	C	0.02	0.8751327	0.1932435	8.47E-06
C	T	0.02	0.871556	0.1879895	5.26E-06
C	T	0.02	0.8013518	0.1727182	5.18E-06
C	G	0.02	0.9111152	0.1779156	5.52E-07
GGGT	G	0.02	0.9111152	0.1779156	5.52E-07
C	T	0.02	0.9430434	0.180203	3.20E-07
C	T	0.02	0.9111152	0.1779156	5.52E-07
G	A	0.02	1.033193	0.1945678	2.19E-07
G	A	0.02	1.00874	0.2070071	1.79E-06
G	A	0.03	0.6834684	0.151384	9.00E-06
G	A	0.03	0.6834684	0.151384	9.00E-06
G	A	0.03	0.6834684	0.151384	9.00E-06
C	T	0.03	0.6561466	0.144269	7.78E-06
C	T	0.03	0.6561466	0.144269	7.78E-06
T	C	0.03	0.6958844	0.1528349	7.60E-06
T	TAG	0.02	0.9055911	0.1739676	3.66E-07
G	C	0.02	-0.8840971	0.1918017	5.92E-06
C	A	0.02	-0.8840971	0.1918017	5.92E-06

G	A	0.02	-0.8984958	0.1857917	2.12E-06
T	G	0.02	-0.8840971	0.1918017	5.92E-06
A	G	0.02	0.8630175	0.1851859	4.72E-06
G	C	0.02	1.011289	0.1850507	1.01E-07
G	A	0.02	1.005595	0.1873202	1.64E-07
GC	G	0.24	-0.2666027	0.05933051	9.88E-06
AG	A	0.04	0.5726026	0.1270785	9.36E-06
G	A	0.03	0.7096482	0.150496	3.68E-06
G	A	0.03	0.6936674	0.1540438	9.48E-06
G	T	0.03	0.6936674	0.1540438	9.48E-06
G	A	0.03	0.6936674	0.1540438	9.48E-06
CT	C	0.1	0.413759	0.07925916	3.41E-07
A	AGTTTGG	0.45	-0.2569964	0.05292145	1.93E-06
G	A	0.02	0.8410136	0.1792136	4.08E-06
T	A	0.19	-0.2860682	0.06233482	6.48E-06
C	T	0.01	0.9454445	0.2053595	6.07E-06
C	T	0.15	-0.339666	0.07240878	4.11E-06
G	A	0.13	-0.3646962	0.08043253	8.27E-06
T	A	0.02	0.7818739	0.1669456	4.25E-06
C	G	0.02	0.9156885	0.20227	8.53E-06
C	CTT	0.1	0.3667624	0.08024991	7.05E-06
G	T	0.49	0.2240393	0.04932419	7.98E-06
T	C	0.49	0.234736	0.04941006	3.13E-06
C	T	0.49	0.2386704	0.04953291	2.30E-06
T	C	0.49	0.2312489	0.04929792	4.11E-06
C	T	0.49	0.2435006	0.04922772	1.27E-06
T	C	0.49	0.2416265	0.04928294	1.55E-06
G	A	0.04	0.6024423	0.1337977	9.50E-06
G	A	0.01	1.296048	0.2527128	5.32E-07
TCA	T	0.02	0.8562904	0.1587519	1.44E-07
T	TAA	0.03	0.6444693	0.13851	4.88E-06
A	G	0.03	0.7498662	0.1641718	7.14E-06
C	T	0.07	0.4287421	0.09519991	9.46E-06
A	G	0.01	1.071166	0.2246848	2.90E-06
T	C	0.03	-0.6830369	0.1502758	7.88E-06
A	G	0.5	0.2305327	0.05040866	6.96E-06
G	A	0.01	1.113341	0.2446332	7.68E-06
A	T	0.01	1.273997	0.2503148	6.42E-07
T	A	0.45	-0.2284622	0.0493473	5.41E-06
G	T	0.32	-0.2465682	0.0547123	9.33E-06
G	A	0.34	-0.2492488	0.05378744	5.31E-06
T	C	0.34	-0.2431123	0.05361081	8.25E-06
C	T	0.31	-0.2492767	0.05491899	8.09E-06
GATA	G	0.3	0.2470649	0.05450029	8.30E-06
CAT	C	0.29	0.2515293	0.05565561	8.82E-06
T	C	0.31	0.2442823	0.05352938	7.26E-06
G	A	0.28	0.2422486	0.0529859	7.00E-06
CAA	C	0.4	0.2276462	0.05040608	8.95E-06
C	T	0.25	0.2734831	0.05883315	4.98E-06
A	T	0.23	0.2676316	0.05952419	9.77E-06

A	G	0.38	0.2348371	0.05190358	8.63E-06
G	A	0.38	0.2378536	0.05196119	6.83E-06
T	C	0.38	0.2371779	0.05175209	6.66E-06
A	G	0.38	0.2378536	0.05196119	6.83E-06
G	A	0.38	0.2378536	0.05196119	6.83E-06
A	C	0.38	0.238066	0.05172831	6.12E-06
T	C	0.38	0.2393944	0.0518531	5.73E-06
G	A	0.38	0.2419541	0.05221819	5.32E-06
T	C	0.38	0.2378536	0.05196119	6.83E-06
C	T	0.37	0.2368963	0.0518467	7.08E-06
A	G	0.38	0.2378536	0.05196119	6.83E-06
G	A	0.37	0.2396332	0.05241044	6.99E-06
G	A	0.36	0.2350582	0.05161801	7.58E-06
A	G	0.38	0.2532698	0.05152183	1.46E-06
T	G	0.38	0.2396547	0.0508317	3.69E-06
G	A	0.37	0.2391221	0.05245225	7.42E-06
G	T	0.37	0.2391778	0.0523706	7.15E-06
T	TA	0.37	0.2423519	0.05210776	4.92E-06
T	C	0.38	0.2500782	0.0519565	2.35E-06
A	G	0.39	0.2459207	0.05156795	2.88E-06
A	G	0.38	0.2493097	0.05193606	2.50E-06
T	C	0.38	0.2497163	0.05166952	2.15E-06
A	C	0.37	0.2417544	0.0521653	5.30E-06
C	T	0.38	0.2515924	0.0520264	2.12E-06
A	C	0.38	0.2515924	0.0520264	2.12E-06
G	T	0.38	0.2391718	0.05220337	6.71E-06
A	G	0.38	0.2455194	0.05206091	3.67E-06
G	A	0.37	0.2417544	0.0521653	5.30E-06
A	G	0.38	0.2436035	0.0522128	4.61E-06
A	T	0.37	0.2351808	0.05227977	9.67E-06
T	C	0.24	0.2998753	0.05902672	6.71E-07
G	A	0.38	0.2421118	0.05214258	5.09E-06
T	C	0.38	0.2421118	0.05214258	5.09E-06
C	G	0.38	0.2507459	0.05211976	2.38E-06
A	C	0.38	0.2396451	0.05230288	6.70E-06
A	G	0.38	0.2416471	0.05207691	5.16E-06
G	A	0.37	0.2510778	0.05170869	1.94E-06
T	C	0.38	0.2468467	0.05207141	3.28E-06
G	C	0.37	0.2447988	0.05214915	4.05E-06
C	T	0.38	0.2418557	0.05219319	5.31E-06
C	T	0.38	0.2418557	0.05219319	5.31E-06
G	A	0.37	0.2357302	0.05220591	8.98E-06
CA	C	0.37	0.2395205	0.05218867	6.47E-06
G	A	0.38	0.26663	0.05199456	5.34E-07
A	T	0.37	0.2518605	0.05224048	2.27E-06
G	A	0.37	0.2414293	0.05228921	5.72E-06
A	G	0.37	0.2408215	0.05189745	5.16E-06
C	A	0.37	0.2461326	0.05237528	3.96E-06
C	T	0.35	0.2575072	0.05215299	1.32E-06
A	G	0.38	0.2498193	0.05189415	2.35E-06

G	C	0.38	0.2577006	0.05170935	1.06E-06
C	G	0.38	0.240307	0.05191595	5.44E-06
T	C	0.37	0.2403241	0.05183051	5.24E-06
T	G	0.38	0.2525064	0.05169133	1.69E-06
T	C	0.38	0.2484486	0.05190727	2.66E-06
G	A	0.38	0.2413012	0.05206415	5.29E-06
A	G	0.38	0.2544669	0.05178808	1.48E-06
T	A	0.38	0.2484486	0.05190727	2.66E-06
G	C	0.38	0.2565181	0.05189964	1.29E-06
T	C	0.49	0.2284791	0.05057917	8.91E-06
G	T	0.37	0.2718949	0.0515512	2.62E-07
G	A	0.37	0.2761849	0.05171454	1.88E-07
T	C	0.38	0.2543902	0.05180947	1.50E-06
A	C	0.38	0.2433445	0.05192641	4.20E-06
G	C	0.22	0.3209091	0.06062294	2.38E-07
A	G	0.22	0.343731	0.06071495	3.70E-08
A	C	0.22	0.3024895	0.0601538	8.59E-07
A	C	0.22	0.2940485	0.06019147	1.69E-06
T	C	0.23	0.2895153	0.05956247	1.89E-06
A	G	0.21	0.2741579	0.06044952	8.23E-06
G	A	0.01	1.114951	0.2361854	3.59E-06
CCTGA	C	0.42	-0.2285432	0.05025727	7.80E-06
C	A	0.16	0.3151044	0.07006273	9.71E-06
G	GAAAAC	0.03	0.6978296	0.144902	2.33E-06
G	A	0.05	0.5088108	0.1125901	8.83E-06
T	TGCAGTAAGCTTACTG	0.05	0.5220828	0.1139132	6.66E-06
C	T	0.08	0.4348852	0.09005185	2.19E-06
C	T	0.08	0.4183577	0.09140914	6.85E-06
A	C	0.09	0.3818755	0.08495321	9.81E-06
G	A	0.09	0.384665	0.08504231	8.68E-06
C	A	0.08	0.444052	0.08974915	1.26E-06
C	T	0.08	0.4472271	0.08907326	8.91E-07
A	G	0.08	0.4313255	0.09039296	2.85E-06
C	A	0.08	0.4183577	0.09140914	6.85E-06
G	A	0.08	0.4183577	0.09140914	6.85E-06
A	G	0.4	0.2367523	0.0522321	8.32E-06
T	C	0.23	-0.1665353	0.02521313	2.15E-10
T	C	0.23	-0.1614689	0.02504062	5.24E-10
A	G	0.24	-0.1478447	0.02436757	4.32E-09
T	C	0.25	-0.1537134	0.0236637	4.01E-10
C	T	0.23	-0.16275	0.02525572	5.37E-10
A	G	0.23	-0.1571873	0.02507884	1.44E-09
C	G	0.23	-0.1537083	0.02496378	2.65E-09
C	G	0.14	-0.1996785	0.03285892	4.11E-09
G	A	0.05	-0.5136024	0.08081307	8.74E-10
A	G	0.02	0.6802562	0.1112927	3.53E-09
TA	T	0.01	-0.5736253	0.09438602	4.08E-09
T	G	0.06	0.2729654	0.04601818	9.27E-09
G	A	0.5	-0.1140257	0.01883536	4.63E-09
TCA	T	0.02	0.3630491	0.06069088	6.83E-09

G	A	0.02	0.458795	0.07646123	6.99E-09
C	T	0.01	1.066275	0.2357359	8.67E-06
A	G	0.05	0.5608503	0.1201505	4.56E-06
T	TTGTGTG	0.05	0.5880735	0.1228422	2.65E-06
G	T	0.28	0.2755907	0.05663498	1.84E-06
CT	C	0.24	-0.282217	0.06258578	9.22E-06
A	G	0.03	0.7380919	0.1495647	1.34E-06
A	T	0.07	0.4921256	0.1066364	5.78E-06
A	C	0.19	0.3167531	0.0683457	5.29E-06
A	C	0.32	0.2634699	0.05841081	9.16E-06
G	A	0.06	0.5048486	0.1121147	9.48E-06
T	C	0.35	-0.2563748	0.05417148	3.40E-06
G	A	0.09	0.4157266	0.08875478	4.24E-06
G	A	0.09	0.4157266	0.08875478	4.24E-06
C	T	0.04	0.6087934	0.1311554	5.13E-06
A	G	0.03	0.7023429	0.1561591	9.70E-06
G	A	0.06	0.5168051	0.1140776	8.41E-06
C	T	0.05	0.608062	0.1206226	8.09E-07
T	C	0.06	0.5141149	0.1135092	8.44E-06
GT	G	0.04	0.6640987	0.1398298	3.15E-06
G	A	0.27	-0.282996	0.06164582	6.44E-06
C	T	0.26	-0.3003072	0.06272731	2.65E-06
T	C	0.25	-0.3099127	0.06396013	2.03E-06
C	T	0.24	-0.3326978	0.06378855	3.48E-07
TAC	T	0.25	-0.3183846	0.0648353	1.50E-06
G	A	0.25	-0.3151514	0.06394138	1.38E-06
G	A	0.23	-0.302884	0.06579154	6.08E-06
G	A	0.25	-0.308776	0.06345749	1.84E-06
C	T	0.24	-0.3352516	0.06377274	2.85E-07
C	T	0.25	-0.3222858	0.06353955	6.97E-07
G	C	0.25	-0.324532	0.06331329	5.39E-07
T	C	0.37	-0.272602	0.05866723	5.02E-06
T	G	0.26	-0.3073782	0.06297265	1.72E-06
A	G	0.36	-0.2779472	0.05967105	4.77E-06
C	T	0.27	-0.2903764	0.06284169	5.63E-06
T	C	0.36	-0.277853	0.05902176	3.81E-06
C	CAATA	0.36	-0.2860688	0.05904999	2.04E-06
T	TA	0.36	-0.2862382	0.05871638	1.77E-06
G	A	0.36	-0.2776007	0.05894747	3.78E-06
G	A	0.36	-0.2754732	0.059102	4.70E-06
T	C	0.36	-0.2740328	0.0591082	5.26E-06
T	C	0.36	-0.2799637	0.05905225	3.27E-06
G	T	0.37	-0.2628153	0.05843228	9.70E-06
C	G	0.36	-0.2799637	0.05905225	3.27E-06
C	G	0.19	0.3139107	0.06627212	3.34E-06
AC	A	0.02	0.9978908	0.2147223	5.00E-06
TTGTGTG	T	0.14	-0.3565883	0.07767242	6.43E-06
A	G	0.05	0.561569	0.1248141	9.63E-06
A	G	0.04	0.6115748	0.1307921	4.40E-06
A	G	0.01	1.203471	0.2426372	1.19E-06

C	G	0.33	-0.2390163	0.05239644	7.32E-06
GC	G	0.01	1.246106	0.2693131	5.48E-06
A	G	0.06	0.5192531	0.1147448	8.59E-06
G	A	0.33	0.2548233	0.05446628	4.34E-06
C	T	0.38	0.2413298	0.05340424	8.84E-06
T	G	0.38	0.2358784	0.05252394	9.99E-06
T	C	0.39	0.2369661	0.05270951	9.78E-06
G	GA	0.39	0.2453649	0.05281222	5.03E-06
G	C	0.04	0.6287662	0.1266392	1.16E-06
T	C	0.04	0.6688653	0.1223861	1.01E-07
A	T	0.04	0.6719966	0.1238724	1.24E-07
C	A	0.04	0.6719966	0.1238724	1.24E-07
G	A	0.04	0.6719966	0.1238724	1.24E-07
C	T	0.04	0.6719966	0.1238724	1.24E-07
G	A	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
TC	T	0.04	0.6663433	0.124882	1.93E-07
C	T	0.04	0.6690767	0.1247611	1.68E-07
C	A	0.04	0.6690767	0.1247611	1.68E-07
C	G	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6443372	0.12327	3.30E-07
T	A	0.04	0.6719966	0.1238724	1.24E-07
T	C	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
G	A	0.04	0.6719966	0.1238724	1.24E-07
T	C	0.04	0.6719966	0.1238724	1.24E-07
C	A	0.04	0.6719966	0.1238724	1.24E-07
T	TAACAA	0.04	0.6663433	0.124882	1.93E-07
C	A	0.04	0.6719966	0.1238724	1.24E-07
C	T	0.04	0.6719966	0.1238724	1.24E-07
A	T	0.04	0.6719966	0.1238724	1.24E-07
C	T	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
T	G	0.04	0.6719966	0.1238724	1.24E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
C	T	0.04	0.643952	0.1205863	1.89E-07
A	G	0.04	0.6719966	0.1238724	1.24E-07
G	A	0.04	0.6719966	0.1238724	1.24E-07
C	CT	0.04	0.6384286	0.124269	5.09E-07
G	A	0.07	0.4684501	0.1038064	9.08E-06
C	T	0.04	0.5814599	0.1284239	8.50E-06
A	G	0.04	0.5906045	0.12282	2.40E-06
AG	A	0.04	0.5839602	0.1237979	3.65E-06
A	G	0.04	0.5906045	0.12282	2.40E-06
GGATC	G	0.35	0.2551546	0.05586005	7.13E-06
A	G	0.08	-0.4456903	0.09772486	7.35E-06
C	T	0.02	0.9300432	0.1907773	1.77E-06
C	T	0.02	0.8680618	0.1449635	8.09E-09
A	T	0.04	0.2996954	0.05001213	6.47E-09

C	A	0.04	0.2996954	0.05001213	6.47E-09
G	A	0.04	0.2996954	0.05001213	6.47E-09
C	T	0.04	0.2996954	0.05001213	6.47E-09
G	A	0.04	0.2996954	0.05001213	6.47E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
TC	T	0.04	0.3038239	0.05039395	5.31E-09
C	G	0.04	0.2996954	0.05001213	6.47E-09
T	A	0.04	0.2996954	0.05001213	6.47E-09
T	C	0.04	0.2996954	0.05001213	6.47E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
G	A	0.04	0.2996954	0.05001213	6.47E-09
T	C	0.04	0.2996954	0.05001213	6.47E-09
C	A	0.04	0.2996954	0.05001213	6.47E-09
T	TAACAA	0.04	0.3038239	0.05039395	5.31E-09
C	A	0.04	0.2996954	0.05001213	6.47E-09
C	T	0.04	0.2996954	0.05001213	6.47E-09
A	T	0.04	0.2996954	0.05001213	6.47E-09
C	T	0.04	0.2996954	0.05001213	6.47E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
T	G	0.04	0.2996954	0.05001213	6.47E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
C	T	0.04	0.2946876	0.04854591	4.25E-09
A	G	0.04	0.2996954	0.05001213	6.47E-09
G	A	0.04	0.2996954	0.05001213	6.47E-09
T	A	0.01	0.9835754	0.1637711	7.26E-09
A	G	0.22	-0.2951511	0.04953786	8.32E-09
T	C	0.23	-0.2991642	0.0491807	4.26E-09
A	G	0.23	-0.2979893	0.04947271	5.87E-09
A	G	0.23	-0.296551	0.04924051	5.90E-09
C	T	0.23	-0.2956679	0.04925209	6.54E-09
T	C	0.23	-0.2976331	0.04877779	3.85E-09
A	G	0.23	-0.2951483	0.04877719	5.06E-09
T	C	0.23	-0.2947659	0.04923796	7.15E-09
G	A	0.23	-0.2972858	0.04949218	6.42E-09
C	T	0.23	-0.2967091	0.04923854	5.79E-09
A	G	0.23	-0.296551	0.04924051	5.90E-09
T	C	0.23	-0.2951343	0.0488389	5.28E-09
C	T	0.23	-0.2975775	0.04922376	5.22E-09
T	C	0.23	-0.2953467	0.04885045	5.20E-09
A	G	0.23	-0.296551	0.04924051	5.90E-09
G	T	0.23	-0.2979779	0.0494134	5.66E-09
T	C	0.23	-0.292923	0.0489028	7.02E-09
C	T	0.05	0.5497944	0.09064026	4.32E-09
C	T	0.05	0.5395345	0.0882196	3.32E-09
C	T	0.05	0.620115	0.09704831	8.97E-10
T	C	0.05	0.5777029	0.09675331	9.04E-09
C	T	0.02	1.018759	0.1710009	8.77E-09
C	T	0.05	0.5415266	0.08894264	3.83E-09
T	C	0.02	1.081371	0.1779836	5.96E-09

T	TATCATC	0.03	0.4769902	0.08025127	9.31E-09
G	A	0.02	0.7759863	0.1671642	5.43E-06
T	C	0.02	-0.9201826	0.199677	6.30E-06
A	G	0.02	-0.9201826	0.199677	6.30E-06
G	T	0.02	-0.9201826	0.199677	6.30E-06
A	G	0.02	-0.8730556	0.1937102	9.81E-06
C	T	0.02	-0.8730556	0.1937102	9.81E-06
C	T	0.02	-0.8758335	0.1900569	6.30E-06
A	G	0.02	-0.8758335	0.1900569	6.30E-06
C	G	0.01	-1.268274	0.2704154	4.38E-06
G	A	0.01	-1.268274	0.2704154	4.38E-06
C	G	0.21	-0.327702	0.07043866	5.19E-06
A	C	0.22	-0.3223624	0.07007169	6.52E-06
A	G	0.22	-0.3223624	0.07007169	6.52E-06
A	G	0.21	-0.3295736	0.07044212	4.61E-06
G	A	0.02	0.8732906	0.1889593	5.94E-06
G	A	0.09	0.4689844	0.09986151	4.26E-06
A	G	0.49	0.2517759	0.05545162	8.48E-06
G	T	0.45	0.2484015	0.05515265	9.94E-06
C	A	0.44	0.2560035	0.0546364	4.47E-06
C	T	0.44	0.2556381	0.05531109	5.94E-06
G	A	0.47	-0.247466	0.0548904	9.75E-06
C	T	0.47	0.2602665	0.05646075	6.26E-06
A	G	0.02	0.9888638	0.2113905	4.63E-06
G	A	0.02	1.055064	0.2331259	9.04E-06
A	AG	0.02	1.036208	0.2092553	1.33E-06
G	A	0.02	1.030334	0.2259762	7.81E-06
G	GA	0.02	1.0691	0.2255283	3.50E-06
C	T	0.01	1.182436	0.2531891	4.79E-06
C	T	0.03	0.7907739	0.1662178	3.24E-06
G	A	0.03	0.7776879	0.1689036	6.41E-06
C	T	0.02	0.8751105	0.1880856	5.18E-06
AT	A	0.07	0.5253243	0.1154451	8.12E-06
C	T	0.06	0.5664918	0.1235448	6.97E-06
G	A	0.04	0.653002	0.1407177	5.47E-06
GC	G	0.01	1.238797	0.2226424	6.89E-08
A	G	0.01	1.38853	0.271579	6.26E-07
A	G	0.01	1.427251	0.2510843	3.75E-08
A	G	0.01	1.427251	0.2510843	3.75E-08
T	TAA	0.01	1.521272	0.2709814	5.36E-08
G	A	0.05	-0.5631538	0.1232976	7.54E-06
C	T	0.05	-0.5804579	0.1235076	4.20E-06
C	T	0.05	-0.5669132	0.1241441	7.57E-06
G	A	0.02	-0.8591849	0.1842256	4.93E-06
A	G	0.02	-0.8591849	0.1842256	4.93E-06
A	G	0.04	0.676144	0.1500875	9.89E-06
C	T	0.04	0.676144	0.1500875	9.89E-06
A	G	0.04	0.7118203	0.1516823	4.33E-06
G	C	0.04	0.7272184	0.1501222	2.19E-06
T	G	0.03	0.7327419	0.1563522	4.46E-06

C	T	0.07	-0.5376197	0.1137377	3.72E-06
G	A	0.06	-0.58321	0.1170442	1.15E-06
C	T	0.01	1.166683	0.2581049	9.26E-06
CTCCA	C	0.12	-0.429684	0.09004362	3.04E-06
T	C	0.47	-0.2494854	0.05494094	8.46E-06
A	C	0.47	-0.2486757	0.05508522	9.50E-06
G	C	0.47	-0.2486757	0.05508522	9.50E-06
C	T	0.47	-0.2486757	0.05508522	9.50E-06
G	C	0.47	-0.2486757	0.05508522	9.50E-06
C	T	0.47	-0.2512857	0.05487859	7.17E-06
T	G	0.47	-0.2486757	0.05508522	9.50E-06
A	G	0.47	-0.2486757	0.05508522	9.50E-06
C	T	0.47	-0.2486757	0.05508522	9.50E-06
C	A	0.47	-0.2486757	0.05508522	9.50E-06
G	T	0.47	-0.2486757	0.05508522	9.50E-06
C	T	0.47	-0.2486757	0.05508522	9.50E-06
T	C	0.47	-0.2509666	0.05481649	7.19E-06
T	G	0.44	-0.2693141	0.05903378	7.72E-06
A	G	0.42	-0.2723298	0.06044622	9.88E-06
A	G	0.42	-0.2787087	0.06046178	6.26E-06
C	T	0.5	0.2476649	0.05458437	8.60E-06
A	C	0.01	1.299941	0.2795638	5.24E-06
GCACA	G	0.15	-0.3837684	0.08283732	5.66E-06
AGTGTGTGTGTGTGT	A	0.15	-0.3871581	0.08417539	6.55E-06
C	T	0.01	1.187802	0.2556284	5.32E-06
T	C	0.01	1.424378	0.2638722	1.58E-07
G	GTAGA	0.36	0.2801052	0.06123657	7.32E-06
A	G	0.02	1.221984	0.2348585	4.07E-07
T	C	0.19	0.3262767	0.07223517	9.40E-06
T	C	0.19	0.3262767	0.07223517	9.40E-06
T	C	0.19	0.3290103	0.07223118	7.96E-06
A	C	0.19	0.3262767	0.07223517	9.40E-06
A	G	0.21	0.3171848	0.06954606	7.76E-06
T	A	0.21	0.3136984	0.06889829	8.03E-06
T	C	0.18	0.3353226	0.07386191	8.50E-06
C	T	0.03	0.7818956	0.1732682	9.57E-06
C	T	0.02	1.118356	0.2196995	6.96E-07
T	C	0.02	0.9253321	0.198277	4.86E-06
T	A	0.02	0.9253321	0.198277	4.86E-06
C	T	0.01	1.249144	0.2567947	1.99E-06
A	C	0.01	1.148569	0.2405553	3.00E-06
G	T	0.01	1.148569	0.2405553	3.00E-06
G	A	0.01	1.148569	0.2405553	3.00E-06
C	T	0.01	1.148569	0.2405553	3.00E-06
A	T	0.01	1.148569	0.2405553	3.00E-06
C	T	0.02	0.9878723	0.2137905	5.96E-06
G	T	0.01	1.280142	0.2479985	4.96E-07
G	A	0.01	1.280142	0.2479985	4.96E-07
C	T	0.01	1.280142	0.2479985	4.96E-07
C	T	0.01	1.280142	0.2479985	4.96E-07

C	A	0.01	1.280142	0.2479985	4.96E-07
A	C	0.01	1.280142	0.2479985	4.96E-07
C	G	0.01	0.9920582	0.2189546	8.84E-06
C	T	0.01	0.9920582	0.2189546	8.84E-06
C	T	0.17	0.3486292	0.07426311	4.30E-06
A	G	0.14	-0.3865841	0.0823554	4.31E-06
G	A	0.09	0.4310945	0.0944848	7.70E-06
A	C	0.01	1.197799	0.2605629	6.62E-06
G	C	0.01	1.240029	0.2699757	6.74E-06
GGTGT	G	0.05	0.5968822	0.1275583	4.60E-06
A	G	0.03	0.6812917	0.1483441	6.75E-06
G	C	0.04	0.5813319	0.1285168	9.14E-06
A	G	0.04	0.6078802	0.1340446	8.69E-06
A	G	0.03	0.7425235	0.1620873	7.10E-06
C	T	0.03	0.7499789	0.156453	2.75E-06
A	C	0.03	0.8136713	0.170708	3.11E-06
G	T	0.04	0.6489807	0.1438563	9.63E-06
A	C	0.03	-0.7067403	0.1566859	9.66E-06
T	C	0.01	1.209546	0.2448808	1.41E-06
G	A	0.02	1.042192	0.2285021	7.76E-06
T	C	0.41	-0.2532534	0.05550679	7.70E-06
A	G	0.38	-0.256714	0.05577649	6.46E-06
C	G	0.01	1.141694	0.2497116	7.39E-06
T	C	0.08	0.5078689	0.1065908	3.14E-06
C	T	0.08	0.5078689	0.1065908	3.14E-06
A	G	0.08	0.5078689	0.1065908	3.14E-06
T	C	0.08	0.5018944	0.1061535	3.70E-06
G	A	0.08	0.5078689	0.1065908	3.14E-06
T	C	0.08	0.5018944	0.1061535	3.70E-06
C	T	0.08	0.5018944	0.1061535	3.70E-06
A	G	0.08	0.5018944	0.1061535	3.70E-06
T	C	0.08	0.5018944	0.1061535	3.70E-06
G	A	0.08	0.5078689	0.1065908	3.14E-06
A	C	0.09	0.5028941	0.104548	2.55E-06
T	C	0.08	0.5018944	0.1061535	3.70E-06
TTTTCTTTCTTTC	T	0.1	0.4602834	0.0971389	3.53E-06
A	ATG	0.03	-0.816528	0.1761778	5.61E-06
C	G	0.01	1.100438	0.2371152	5.46E-06
C	T	0.02	-0.9133705	0.2018119	9.04E-06
AC	A	0.02	-0.9133705	0.2018119	9.04E-06
C	T	0.15	-0.3807081	0.07862594	2.21E-06
T	G	0.16	-0.3832086	0.07844311	1.81E-06
T	C	0.16	-0.367411	0.07865525	4.77E-06
C	CTG	0.14	-0.4034474	0.085135	3.52E-06
A	G	0.16	-0.367411	0.07865525	4.77E-06
T	C	0.04	0.6951761	0.1493149	5.11E-06
C	T	0.37	0.2735973	0.05968506	7.01E-06
A	G	0.02	1.089926	0.1820738	9.60E-09
C	T	0.02	0.5137316	0.08283298	2.51E-09
C	T	0.01	0.579021	0.09738094	9.81E-09

TG	T	0.01	0.9040509	0.1518973	9.38E-09
A	G	0.3	-0.2849074	0.06115554	4.75E-06
G	A	0.02	-1.021761	0.2256731	8.51E-06
C	T	0.03	-0.7127002	0.157354	8.44E-06
C	CCCACACCACACAA	0.07	-0.4746594	0.1019128	4.78E-06
C	T	0.09	-0.4210106	0.09365503	9.80E-06
CTGTGTGTGTGTG	C	0.01	1.115316	0.2255026	1.27E-06
CT	C	0.33	-0.2542933	0.05619444	8.60E-06
TCTC	T	0.02	0.8729022	0.1869346	4.52E-06
A	C	0.21	0.2883806	0.06388488	9.03E-06
G	A	0.21	0.3002512	0.06374127	3.76E-06
T	C	0.37	-0.2586349	0.05711354	8.48E-06
G	A	0.02	1.017572	0.1944713	3.21E-07
G	C	0.02	1.017572	0.1944713	3.21E-07
A	T	0.02	0.8971357	0.1955426	6.52E-06
G	A	0.23	-0.2926485	0.06440773	7.93E-06
G	T	0.4	-0.2569209	0.05581253	6.09E-06
T	C	0.45	-0.2391846	0.05293839	8.87E-06
G	GGT	0.12	0.4420168	0.08789778	8.58E-07
G	A	0.12	0.4254688	0.0851878	1.01E-06
T	G	0.13	0.3792269	0.08390417	8.80E-06
C	T	0.13	0.3792269	0.08390417	8.80E-06
G	A	0.12	0.3868289	0.08489806	7.49E-06
C	T	0.02	0.9685203	0.1848557	3.10E-07
G	A	0.02	0.9044406	0.1865362	2.00E-06
C	A	0.16	0.3312401	0.07237372	6.85E-06
A	G	0.16	0.321758	0.07162253	9.93E-06
A	C	0.18	0.3306249	0.07066542	4.34E-06
G	A	0.18	0.3283497	0.0698416	3.92E-06
C	T	0.03	-0.7687971	0.1686455	7.42E-06
A	C	0.03	-0.7593501	0.167619	8.41E-06
G	A	0.48	-0.2438854	0.05392733	8.70E-06
G	A	0.48	-0.2517147	0.05399578	4.69E-06
T	C	0.02	1.04038	0.2240391	5.08E-06
T	A	0.02	1.04038	0.2240391	5.08E-06
G	T	0.02	1.04038	0.2240391	5.08E-06
C	T	0.01	1.076932	0.2293385	4.02E-06
G	A	0.03	-0.7899588	0.156573	7.93E-07
TTA	T	0.03	-0.693915	0.1520106	7.22E-06
A	T	0.03	-0.8086318	0.1626672	1.13E-06
A	G	0.03	-0.7423303	0.1530644	1.99E-06
G	C	0.03	-0.8086318	0.1626672	1.13E-06
G	T	0.37	0.252873	0.05570185	8.06E-06
G	A	0.45	0.2465448	0.05464086	9.11E-06
G	C	0.36	0.2535581	0.05573587	7.73E-06
CT	C	0.42	-0.2667891	0.05474075	1.78E-06
A	G	0.02	0.8958471	0.1906688	3.97E-06
G	GTA	0.02	-0.8421286	0.1865864	9.06E-06
C	CTGTGTGTGTGTG	0.08	0.4838792	0.1015494	2.94E-06
C	A	0.19	-0.3097824	0.06800258	7.52E-06

TACAC	T	0.01	-1.069915	0.2229247	2.51E-06
T	C	0.08	0.5138696	0.1008882	6.30E-07
A	G	0.03	-0.7133109	0.1580199	9.03E-06
C	T	0.02	-0.9776494	0.2065937	3.41E-06
G	A	0.22	-0.3063608	0.06604193	5.19E-06
A	T	0.12	0.3794227	0.08420594	9.36E-06
A	G	0.49	-0.2501101	0.05398123	5.32E-06
A	G	0.5	0.233941	0.05100447	6.55E-06
C	G	0.47	-0.2429683	0.05368948	8.59E-06
C	T	0.24	-0.2949386	0.06427783	6.50E-06
C	T	0.24	-0.2924344	0.06355515	6.14E-06
A	T	0.23	-0.3163028	0.06543652	2.14E-06
T	C	0.23	-0.3181337	0.0650539	1.65E-06
C	T	0.23	-0.3163028	0.06543652	2.14E-06
A	T	0.23	-0.3088537	0.06482989	2.95E-06
G	A	0.24	-0.29856	0.06449139	5.42E-06
T	C	0.23	-0.3142062	0.06477862	1.98E-06
T	C	0.11	-0.4044576	0.08735864	5.41E-06
C	A	0.02	-0.7599119	0.163135	4.76E-06
C	T	0.22	-0.3124168	0.06372398	1.55E-06
A	G	0.41	0.2487144	0.05483189	8.20E-06
C	T	0.02	1.074952	0.2240414	2.52E-06
C	T	0.02	1.102922	0.2304364	2.66E-06
A	G	0.46	0.2521694	0.05481366	6.16E-06
T	C	0.47	0.2550941	0.05530632	5.84E-06
A	G	0.46	0.2491151	0.05501631	8.49E-06
C	T	0.02	0.960725	0.1582127	4.31E-09
C	T	0.03	-0.6254527	0.1025425	4.20E-09
G	A	0.03	-0.6270795	0.1045207	7.15E-09
A	G	0.03	-0.6270795	0.1045207	7.15E-09
G	A	0.27	-0.1280331	0.027981	6.88E-06
G	C	0.23	-0.1508598	0.0298781	7.78E-07
A	C	0.05	0.2737413	0.05870891	4.67E-06
C	A	0.09	-0.2102701	0.04586796	6.62E-06
T	G	0.11	0.1853312	0.04073727	7.73E-06
C	T	0.11	0.1790625	0.03955555	8.53E-06
G	A	0.12	0.198088	0.03773838	2.96E-07
A	C	0.11	0.1871033	0.04005937	4.50E-06
CAATGGTCTCGAATGC	T	0.07	0.2441739	0.05279686	5.53E-06
G	A	0.1	0.2190897	0.04514588	1.96E-06
G	T	0.1	0.2053291	0.04467877	6.30E-06
A	G	0.1	0.2151525	0.04558075	3.60E-06
C	T	0.1	0.202985	0.04481376	8.44E-06
G	A	0.1	0.2148024	0.04525415	3.19E-06
T	A	0.1	0.2022893	0.04447906	7.78E-06
G	T	0.1	0.2084657	0.04456202	4.35E-06
G	C	0.1	0.200104	0.04354849	6.32E-06
C	T	0.09	0.207228	0.04587866	8.92E-06
G	A	0.1	0.1983414	0.04408707	9.65E-06
TA	T	0.1	0.2091633	0.04547034	6.18E-06

G	A	0.1	-0.2032702	0.04345173	4.35E-06
A	G	0.09	-0.2034452	0.04487872	8.30E-06
C	T	0.09	-0.2190966	0.04543047	2.25E-06
A	G	0.49	-0.1139311	0.02520771	8.81E-06
A	AACAC	0.41	0.1185739	0.02543655	4.69E-06
G	C	0.41	0.1199579	0.02546424	3.75E-06
T	C	0.37	-0.1244747	0.02720703	6.90E-06
C	G	0.37	-0.1274616	0.0271392	4.00E-06
G	A	0.12	-0.182513	0.04037095	8.76E-06
T	CTCAGGAAACTTACA(	0.11	-0.1998599	0.0417756	2.69E-06
G	A	0.05	0.2823185	0.05956899	3.30E-06
T	C	0.02	-0.4109786	0.09120636	9.35E-06
C	T	0.02	-0.4174597	0.08967766	4.83E-06
A	G	0.15	-0.1602597	0.03522037	7.70E-06
G	A	0.06	0.2416096	0.05320672	8.02E-06
C	T	0.06	0.2416096	0.05320672	8.02E-06
G	A	0.06	0.2416096	0.05320672	8.02E-06
A	G	0.04	-0.3471124	0.06976501	1.10E-06
C	G	0.04	-0.3318764	0.06913555	2.50E-06
T	C	0.34	-0.1263763	0.02689302	3.96E-06
A	T	0.32	-0.1239167	0.0274034	8.72E-06
A	G	0.32	-0.1234638	0.02745395	9.72E-06
C	T	0.05	-0.2912664	0.06238131	4.53E-06
A	G	0.05	-0.2862861	0.06163859	5.06E-06
T	C	0.05	-0.2862861	0.06163859	5.06E-06
A	G	0.05	-0.2912664	0.06238131	4.53E-06
C	T	0.05	-0.2912664	0.06238131	4.53E-06
G	A	0.12	0.1770793	0.03838677	5.83E-06
C	T	0.12	0.1756484	0.03891167	9.03E-06
AAGG	A	0.09	-0.2010778	0.04463591	9.40E-06
T	C	0.25	0.1299016	0.02874116	8.81E-06
G	A	0.14	0.169332	0.03632786	4.70E-06
C	G	0.27	0.1313978	0.02877963	7.19E-06
C	T	0.09	0.2105821	0.04626139	7.64E-06
AT	A	0.03	-0.3692148	0.07871555	4.12E-06
C	T	0.03	-0.3559965	0.07700702	5.58E-06
GA	G	0.41	0.1186455	0.02631002	9.21E-06
G	A	0.05	-0.2926734	0.06302583	5.08E-06
G	T	0.47	-0.1143069	0.02355852	1.97E-06
T	TATAC	0.02	-0.3888785	0.08647647	9.73E-06
G	T	0.46	0.1134975	0.02499881	8.05E-06
G	C	0.5	-0.1252647	0.02548266	1.46E-06
C	T	0.5	-0.1252647	0.02548266	1.46E-06
T	C	0.5	-0.1252647	0.02548266	1.46E-06
C	T	0.5	-0.1252647	0.02548266	1.46E-06
G	C	0.5	-0.127247	0.0255061	1.04E-06
T	G	0.5	0.122166	0.02545844	2.52E-06
T	C	0.5	0.1282109	0.02545439	8.25E-07
G	C	0.5	-0.1252647	0.02548266	1.46E-06
C	CT	0.49	0.1252036	0.02540084	1.37E-06

T	C	0.5	0.1154323	0.02536808	7.70E-06
C	T	0.49	0.1155044	0.02546785	8.22E-06
G	A	0.49	0.1142765	0.02544062	9.95E-06
A	G	0.49	0.1155044	0.02546785	8.22E-06
A	T	0.5	0.1180079	0.0254551	5.26E-06
G	A	0.5	0.1155619	0.02554239	8.63E-06
C	G	0.02	-0.4097383	0.08993553	7.51E-06
C	G	0.48	0.1148161	0.02523087	7.69E-06
A	C	0.49	0.120528	0.02526316	2.86E-06
A	G	0.46	0.1241248	0.02466231	8.41E-07
C	A	0.48	0.1187598	0.02521048	3.76E-06
C	G	0.48	0.1187598	0.02521048	3.76E-06
A	G	0.05	-0.2876968	0.06277859	6.67E-06
G	C	0.05	-0.2876968	0.06277859	6.67E-06
G	A	0.05	-0.2876968	0.06277859	6.67E-06
G	A	0.05	-0.2876968	0.06277859	6.67E-06
A	T	0.05	-0.2876968	0.06277859	6.67E-06
CAATT	C	0.05	-0.2830448	0.06200344	7.21E-06
A	C	0.05	-0.2830448	0.06200344	7.21E-06
C	T	0.05	-0.2830448	0.06200344	7.21E-06
T	G	0.18	-0.1521775	0.03336286	7.33E-06
C	T	0.44	-0.1177139	0.02602104	8.65E-06
T	A	0.44	-0.1192249	0.02598042	6.48E-06
T	C	0.19	-0.144577	0.03213647	9.65E-06
T	C	0.2	-0.144226	0.03195798	9.07E-06
G	A	0.16	-0.1693453	0.03533641	2.59E-06
C	T	0.16	-0.1664087	0.03551959	4.22E-06
C	T	0.21	-0.146362	0.03174938	5.91E-06
C	A	0.16	-0.1633152	0.0357586	7.14E-06
G	A	0.16	-0.1658516	0.03578467	5.29E-06
C	G	0.16	-0.1619875	0.03551416	7.34E-06
T	C	0.16	-0.1709453	0.03471855	1.41E-06
G	C	0.16	-0.1634311	0.03624263	9.22E-06
A	G	0.16	-0.1634311	0.03624263	9.22E-06
G	C	0.14	-0.1672559	0.03704817	9.01E-06
T	C	0.14	-0.1685995	0.03668128	6.28E-06
C	T	0.42	-0.1163418	0.02582316	9.38E-06
GT	G	0.31	-0.1259957	0.02768073	7.65E-06
G	C	0.07	-0.2366292	0.05180242	7.12E-06
C	T	0.07	-0.2357361	0.05182011	7.74E-06
G	T	0.36	-0.1234772	0.0269622	6.76E-06
A	C	0.03	-0.3950804	0.08325641	3.21E-06
T	TA	0.02	-0.4049216	0.08687112	4.70E-06
T	TAATAA	0.15	0.1698777	0.03698503	6.37E-06
G	A	0.01	-0.5447068	0.1126153	2.11E-06
C	T	0.11	-0.1921035	0.03932584	1.69E-06
G	A	0.4	-0.1239147	0.02637279	3.97E-06
C	T	0.32	0.1317176	0.02793678	3.69E-06
C	G	0.03	-0.3495369	0.07736283	8.87E-06
A	G	0.11	0.1878234	0.04036236	4.86E-06

AG	A	0.11	0.1878366	0.03987538	3.76E-06
T	C	0.02	-0.4163277	0.08856715	3.93E-06
C	CCT	0.29	-0.1281618	0.02833332	8.67E-06
G	GTA	0.26	0.1316255	0.0293095	9.99E-06
AAG	A	0.02	-0.4509579	0.09073082	1.13E-06
T	TACACAC	0.01	-0.5299218	0.1160761	7.20E-06
G	C	0.02	-0.4598627	0.0996523	5.79E-06
T	G	0.07	-0.2168807	0.04657089	4.79E-06
T	C	0.07	-0.2174762	0.04651304	4.40E-06
C	A	0.07	-0.2300632	0.04772214	2.27E-06
G	T	0.07	-0.2300632	0.04772214	2.27E-06
G	A	0.07	-0.2219393	0.0474892	4.45E-06
G	A	0.08	-0.2099341	0.04630001	8.26E-06
C	G	0.07	-0.2179207	0.04654409	4.28E-06
AACACACACACACAC	A	0.01	-0.5925412	0.1187792	1.04E-06
T	TTC	0.06	-0.2301809	0.05109262	9.39E-06
C	G	0.24	-0.1242576	0.0276242	9.68E-06
G	T	0.27	-0.120925	0.02637867	6.63E-06
C	A	0.01	-0.4519865	0.09670466	4.44E-06
A	G	0.04	-0.3004187	0.06662632	9.23E-06
C	T	0.04	-0.2995287	0.06651653	9.47E-06
G	AGGAAGGAAGGAAGC	0.01	-0.4643765	0.1030386	9.32E-06
A	G	0.28	0.1230663	0.02705428	7.75E-06
A	C	0.02	-0.3909554	0.0857757	7.44E-06
G	A	0.02	-0.3909554	0.0857757	7.44E-06
G	A	0.02	-0.4065	0.08477317	2.56E-06
T	C	0.02	-0.4149755	0.09185046	8.88E-06
T	G	0.03	-0.3932638	0.07609404	4.39E-07
T	C	0.04	-0.2827262	0.06001979	3.76E-06
C	CATTT	0.04	-0.2752533	0.05970733	5.91E-06
C	T	0.04	-0.2848165	0.06009919	3.30E-06
T	C	0.01	-0.5381337	0.1195095	9.48E-06
G	A	0.01	-0.5781174	0.1185528	1.76E-06
A	G	0.02	-0.4183884	0.09140867	6.84E-06
G	A	0.02	-0.4183884	0.09140867	6.84E-06
T	C	0.42	-0.1209844	0.02478902	1.72E-06
A	G	0.42	-0.1164993	0.02475285	3.83E-06
T	A	0.42	-0.1166018	0.02484371	4.06E-06
CAT	C	0.42	-0.1138817	0.0248135	6.47E-06
C	T	0.42	-0.1202229	0.02481893	2.04E-06
A	C	0.42	-0.116839	0.02485552	3.93E-06
A	ATTT	0.43	-0.1135107	0.02381463	2.92E-06
T	C	0.42	-0.1153485	0.02473738	4.66E-06
T	C	0.42	-0.1172874	0.02472835	3.24E-06
A	C	0.42	-0.1149711	0.02470783	4.87E-06
A	G	0.42	-0.1155768	0.02481584	4.78E-06
G	A	0.42	-0.1145471	0.02483704	5.86E-06
A	G	0.42	-0.1117043	0.02484706	9.78E-06
A	G	0.42	-0.1204161	0.02481566	1.96E-06
G	T	0.41	-0.117362	0.02483167	3.50E-06

A	T	0.42	-0.1208226	0.02467463	1.60E-06
G	A	0.42	-0.1127685	0.02480151	7.82E-06
A	G	0.42	-0.1127685	0.02480151	7.82E-06
C	A	0.42	-0.1113649	0.02475956	9.69E-06
T	C	0.42	-0.1127685	0.02480151	7.82E-06
G	C	0.41	-0.1198075	0.02472322	2.02E-06
T	C	0.41	-0.1156822	0.02478904	4.58E-06
T	C	0.41	-0.1156822	0.02478904	4.58E-06
T	C	0.02	-0.3838847	0.08065728	3.01E-06
T	TA	0.01	-0.585977	0.1025944	2.85E-08
C	T	0.06	-0.2488492	0.0523785	3.13E-06
T	G	0.41	-0.110936	0.02380922	4.74E-06
T	G	0.39	-0.1144434	0.02480692	5.82E-06
C	G	0.39	-0.1148538	0.02478475	5.31E-06
AAG	A	0.03	-0.3380641	0.07463034	8.42E-06
G	T	0.05	-0.2685054	0.05511482	1.79E-06
C	T	0.01	-0.5232253	0.1037355	7.98E-07
G	T	0.02	-0.4798137	0.1013562	3.38E-06
TTTTATTTA	T	0.04	-0.3005347	0.05959612	8.02E-07
G	A	0.14	-0.1527226	0.03351991	7.50E-06
AAAAAT	A	0.01	-0.4931326	0.1061354	5.02E-06
G	A	0.07	-0.2336478	0.04617632	7.39E-07
AGCAGCAGCAGCAG	A	0.02	-0.3717374	0.08228738	8.89E-06
C	CCTAAT	0.45	0.1169949	0.02461631	3.10E-06
A	AAAAGAGAG	0.08	-0.198201	0.04373949	8.37E-06
A	T	0.01	-0.5035216	0.1094626	6.18E-06
T	TA	0.08	-0.2099608	0.04528645	5.25E-06
C	A	0.08	-0.210448	0.04632493	7.95E-06
C	G	0.06	-0.2475692	0.05363337	5.75E-06
T	G	0.15	-0.1722824	0.03644913	3.49E-06
T	C	0.16	0.1487402	0.03150075	3.57E-06
C	T	0.22	0.1300696	0.02791499	4.73E-06
T	C	0.47	0.1176109	0.02520662	4.60E-06
A	AAAAGAAAG	0.49	0.1164264	0.02500211	4.79E-06
C	T	0.48	0.1247691	0.02572412	1.98E-06
G	T	0.48	0.1196558	0.02574805	5.00E-06
TTA	T	0.48	0.1201816	0.02573162	4.50E-06
T	C	0.48	0.1247691	0.02572412	1.98E-06
A	C	0.48	0.125475	0.02560629	1.57E-06
C	T	0.48	0.1241162	0.02578066	2.34E-06
T	C	0.01	-0.4820413	0.1072102	9.76E-06
T	A	0.02	-0.4164431	0.08581592	1.96E-06
GGT	G	0.02	-0.4386371	0.09036772	1.95E-06
T	TG TTC	0.34	-0.1208326	0.02630555	6.36E-06
A	T	0.14	-0.1739224	0.03687286	3.65E-06
T	G	0.14	-0.1718328	0.03722197	5.74E-06
A	G	0.14	-0.1680481	0.03701365	8.05E-06
T	A	0.32	-0.1245591	0.02752671	8.60E-06
A	G	0.19	-0.144702	0.03198726	8.65E-06
T	C	0.02	-0.3943908	0.08678575	7.90E-06

C	A	0.03	-0.3459442	0.07426862	4.77E-06
C	T	0.01	-0.5125254	0.1127954	7.92E-06
G	A	0.39	-0.1281805	0.02575578	1.10E-06
C	A	0.03	-0.3480602	0.07692316	8.61E-06
C	T	0.1	-0.1912724	0.04120034	5.11E-06
A	G	0.15	-0.1539705	0.0337049	7.11E-06
G	A	0.08	-0.2233256	0.04674594	2.77E-06
C	T	0.08	-0.2199558	0.0466789	3.73E-06
A	G	0.04	-0.279692	0.06117964	7.00E-06
G	A	0.05	-0.2800125	0.05972806	4.16E-06
A	G	0.03	-0.3502611	0.06775439	4.36E-07
G	A	0.02	-0.4128043	0.08610806	2.57E-06
A	C	0.02	-0.4128043	0.08610806	2.57E-06
T	TA	0.01	-0.5538202	0.1229261	9.38E-06
C	T	0.1	-0.1878347	0.0414404	8.32E-06
C	A	0.1	-0.18919	0.04128832	6.69E-06
G	A	0.02	-0.4644495	0.1029041	9.05E-06
A	G	0.02	-0.4979226	0.09656361	4.65E-07
G	T	0.02	-0.459704	0.08932259	4.88E-07
A	C	0.28	-0.129376	0.02643369	1.62E-06
A	G	0.01	-0.5406056	0.1177865	6.47E-06
C	T	0.01	-0.5290479	0.1160221	7.38E-06
A	G	0.07	-0.2423733	0.04823822	8.75E-07
G	A	0.08	-0.2063223	0.04482205	6.09E-06
C	T	0.08	-0.2063223	0.04482205	6.09E-06
A	G	0.28	-0.1199777	0.02644906	8.19E-06
T	A	0.17	-0.1613278	0.0324463	1.12E-06
T	C	0.17	-0.1613278	0.0324463	1.12E-06
A	G	0.17	-0.1613278	0.0324463	1.12E-06
A	G	0.17	-0.158041	0.03250116	1.87E-06
G	A	0.17	-0.158041	0.03250116	1.87E-06
A	G	0.17	-0.1566302	0.03253655	2.34E-06
C	T	0.17	-0.1630667	0.03222572	7.39E-07
G	C	0.18	-0.15254	0.0318618	2.65E-06
A	G	0.18	-0.1480315	0.03190362	5.17E-06
C	A	0.18	-0.1508533	0.03184799	3.34E-06
C	CT	0.18	-0.1508533	0.03184799	3.34E-06
G	GT	0.18	-0.1508533	0.03184799	3.34E-06
G	A	0.17	-0.1558767	0.03192736	1.71E-06
T	A	0.01	-0.5789552	0.1147241	7.88E-07
C	A	0.32	0.1275656	0.02752812	5.31E-06
A	C	0.32	0.1227053	0.02712851	8.68E-06
G	A	0.02	-0.4277319	0.08975765	2.93E-06
G	C	0.01	-0.515151	0.1091273	3.59E-06
C	A	0.02	-0.5534358	0.1038062	1.97E-07
G	GGT	0.04	-0.3007689	0.06338816	3.22E-06
T	TTG	0.09	0.2369535	0.04607137	4.96E-07
G	A	0.2	0.150181	0.03204838	4.20E-06
A	G	0.22	0.1391709	0.03074818	8.56E-06
G	A	0.22	0.1391709	0.03074818	8.56E-06

A	ACTT	0.22	0.1393022	0.0308311	8.86E-06
A	T	0.22	0.1391709	0.03074818	8.56E-06
T	C	0.22	0.1391709	0.03074818	8.56E-06
C	G	0.41	0.1160719	0.02519984	6.01E-06
A	G	0.11	0.1740336	0.03834472	8.10E-06
C	T	0.12	0.1777801	0.03797239	4.28E-06
C	A	0.11	0.1808945	0.03841525	3.79E-06
G	A	0.12	0.1750565	0.03723408	3.92E-06
C	T	0.09	0.1889155	0.04159875	8.01E-06
A	G	0.35	-0.1220553	0.02702024	8.91E-06
A	G	0.36	-0.1248267	0.02697972	5.48E-06
A	G	0.33	-0.1180478	0.02623325	9.60E-06
C	G	0.1	-0.1937913	0.04230812	6.74E-06
A	G	0.1	-0.1910965	0.04179705	6.99E-06
G	A	0.08	-0.213301	0.04586633	4.93E-06
T	C	0.05	-0.2621728	0.05720446	6.66E-06
G	A	0.31	-0.1210176	0.02688449	9.54E-06
A	ATCTC	0.02	-0.4583177	0.09185599	1.03E-06
A	C	0.01	-0.5274348	0.1151254	6.71E-06
CT	C	0.06	-0.2577066	0.05339877	2.22E-06
CA	C	0.07	-0.2379888	0.05224224	7.52E-06
C	CTCTT	0.06	-0.2682756	0.0536737	9.91E-07
C	T	0.07	-0.2380226	0.05225982	7.55E-06
C	A	0.07	-0.2380226	0.05225982	7.55E-06
T	C	0.07	-0.2387183	0.05181341	5.98E-06
T	C	0.02	-0.4950407	0.1036054	2.76E-06
G	A	0.01	-0.5928023	0.1186908	1.01E-06
C	T	0.11	-0.1739902	0.03864934	9.53E-06
C	T	0.07	-0.228778	0.05024106	7.59E-06
C	G	0.06	-0.2637238	0.05497236	2.53E-06
A	G	0.06	-0.2553386	0.05470059	4.56E-06
T	C	0.39	-0.1169144	0.02581476	8.46E-06
T	TA	0.39	-0.1201823	0.02589021	5.12E-06
A	G	0.03	-0.3716288	0.07973624	4.71E-06
C	T	0.03	-0.3716288	0.07973624	4.71E-06
A	G	0.03	-0.3827901	0.07848702	1.75E-06
A	G	0.03	-0.3746097	0.07697352	1.84E-06
T	A	0.03	-0.3827901	0.07848702	1.75E-06
A	G	0.03	-0.3827901	0.07848702	1.75E-06
G	A	0.03	-0.3827901	0.07848702	1.75E-06
G	A	0.03	-0.3827901	0.07848702	1.75E-06
T	C	0.03	-0.3827901	0.07848702	1.75E-06
T	C	0.03	-0.3827901	0.07848702	1.75E-06
G	T	0.03	-0.3827901	0.07848702	1.75E-06
TC	T	0.03	-0.3827901	0.07848702	1.75E-06
G	A	0.03	-0.3827901	0.07848702	1.75E-06
A	G	0.03	-0.3827901	0.07848702	1.75E-06
G	T	0.03	-0.3827901	0.07848702	1.75E-06
A	G	0.03	-0.3827901	0.07848702	1.75E-06
T	C	0.03	-0.3827901	0.07848702	1.75E-06

G	A	0.03	-0.3498508	0.07686069	7.65E-06
C	A	0.03	-0.3827901	0.07848702	1.75E-06
C	T	0.03	-0.3728897	0.07947904	4.09E-06
C	T	0.03	-0.3827901	0.07848702	1.75E-06
C	T	0.03	-0.359625	0.07754132	5.22E-06
C	CCAGCCGTCTGA	0.03	-0.3703024	0.07937176	4.61E-06
G	A	0.03	-0.3827901	0.07848702	1.75E-06
T	C	0.03	-0.3827901	0.07848702	1.75E-06
G	T	0.03	-0.3827901	0.07848702	1.75E-06
A	C	0.03	-0.3827901	0.07848702	1.75E-06
A	G	0.03	-0.3628965	0.08053215	9.34E-06
G	T	0.03	-0.3628965	0.08053215	9.34E-06
G	A	0.03	-0.3628965	0.08053215	9.34E-06
A	C	0.03	-0.355191	0.07890982	9.55E-06
C	G	0.03	-0.3827901	0.07848702	1.75E-06
T	TTC	0.03	-0.342458	0.07548378	8.17E-06
T	C	0.03	-0.342458	0.07548378	8.17E-06
C	T	0.03	-0.3488047	0.07688082	8.16E-06
A	G	0.03	-0.342458	0.07548378	8.17E-06
T	C	0.03	-0.342458	0.07548378	8.17E-06
G	A	0.03	-0.342458	0.07548378	8.17E-06
A	C	0.03	-0.342458	0.07548378	8.17E-06
G	GAGGA	0.29	-0.1432637	0.03022169	3.28E-06
C	T	0.23	0.1377123	0.02963759	5.02E-06
C	T	0.01	-0.5247999	0.1084933	2.11E-06
T	A	0.01	-0.5305388	0.1067233	1.13E-06
A	G	0.01	-0.580167	0.1122836	4.42E-07
A	G	0.02	-0.4463682	0.08819685	7.35E-07
C	T	0.26	-0.1358088	0.02854359	3.03E-06
C	T	0.26	-0.1333173	0.02853866	4.49E-06
G	A	0.41	0.1125841	0.02432496	5.44E-06
C	T	0.24	0.1408075	0.03079891	7.00E-06
C	CCGTTCAATTCATTC	0.04	-0.3111688	0.06311698	1.37E-06
T	C	0.19	-0.1460663	0.03206334	7.52E-06
C	T	0.19	-0.1433956	0.0317055	8.69E-06
G	A	0.19	-0.1460663	0.03206334	7.52E-06
T	G	0.11	0.5737286	0.08950242	9.03E-10
G	A	0.11	0.5737286	0.08950242	9.03E-10
G	A	0.11	0.5737286	0.08950242	9.03E-10
G	A	0.11	0.5737286	0.08950242	9.03E-10
G	A	0.11	0.5737286	0.08950242	9.03E-10
G	A	0.11	0.5737286	0.08950242	9.03E-10
G	C	0.11	0.5737286	0.08950242	9.03E-10
T	C	0.11	0.5737286	0.08950242	9.03E-10
G	T	0.11	0.5926169	0.08979785	3.20E-10
GGTGTGTGTGTGT	G	0.01	-1.008837	0.1432725	1.64E-11
A	T	0.01	0.8125328	0.1329928	3.57E-09
T	A	0.03	0.6056641	0.09905629	3.48E-09
C	T	0.03	0.653195	0.1026523	8.85E-10
A	G	0.03	0.653195	0.1026523	8.85E-10

C	G	0.03	0.653195	0.1026523	8.85E-10
C	T	0.48	0.176095	0.02943514	6.92E-09
A	G	0.09	-0.4779569	0.07887357	5.45E-09
G	A	0.05	-0.680986	0.1353445	9.10E-07
C	A	0.05	-0.6693914	0.1366695	1.70E-06
T	C	0.25	-0.3262132	0.06592115	1.34E-06
C	A	0.27	-0.3078468	0.06558087	4.28E-06
C	G	0.27	-0.2992363	0.06530457	7.02E-06
A	T	0.27	-0.3083925	0.06496926	3.38E-06
C	T	0.25	-0.2976772	0.06590371	9.34E-06
C	CT	0.46	0.2539215	0.05521344	6.52E-06
GACACACAC	G	0.02	-0.9284047	0.1974488	4.13E-06
C	CGT	0.08	-0.4868	0.105566	6.18E-06
T	A	0.2	-0.3003474	0.06646064	9.25E-06
C	T	0.2	-0.3003474	0.06646064	9.25E-06
C	T	0.16	-0.3223655	0.07028666	6.89E-06
A	G	0.2	-0.3003474	0.06646064	9.25E-06
C	T	0.2	-0.3020505	0.06679436	9.13E-06
G	A	0.2	-0.2993271	0.066401	9.71E-06
G	A	0.2	-0.3079037	0.06648655	5.66E-06
G	A	0.2	-0.3093803	0.06642203	5.03E-06
G	C	0.19	-0.3085297	0.06696443	6.29E-06
T	C	0.16	0.350338	0.07698596	8.06E-06
G	A	0.03	-0.8277865	0.1610693	5.46E-07
T	TATCTATCTACCTACC	0.02	-0.9930479	0.2176928	7.68E-06
A	C	0.43	0.2677823	0.05696668	4.15E-06
G	A	0.42	-0.2524136	0.05562746	8.54E-06
G	GGT	0.01	-1.249479	0.2728508	7.11E-06
G	T	0.06	0.5717105	0.1163679	1.58E-06
C	CA	0.03	-0.7228848	0.1575465	6.83E-06
G	GGTGTGTGTGT	0.04	-0.6891821	0.1425302	2.26E-06
TCA	T	0.49	-0.26787	0.05868647	7.59E-06
G	A	0.25	-0.3101794	0.06754562	6.72E-06
A	G	0.33	0.2772851	0.06017451	6.27E-06
T	C	0.06	-0.5440576	0.1154395	3.93E-06
A	G	0.41	-0.2635895	0.05485969	2.60E-06
A	G	0.2	-0.3229544	0.07118157	8.56E-06
A	AGTT	0.13	-0.4090834	0.08626729	3.45E-06
A	T	0.13	-0.3921051	0.08635064	8.42E-06
A	C	0.09	-0.4325946	0.0947257	7.51E-06
T	C	0.02	-0.9997556	0.2190031	7.57E-06
C	T	0.46	-0.2774195	0.05365665	4.71E-07
G	A	0.3	-0.2709483	0.05900329	6.72E-06
C	T	0.46	-0.3709526	0.06105391	5.50E-09
T	C	0.07	-0.2334751	0.04942229	3.54E-06
C	G	0.12	0.189936	0.04164056	7.33E-06
G	T	0.02	-0.4036847	0.08511503	3.25E-06
C	CTT	0.06	0.214834	0.04732756	8.08E-06
A	G	0.46	-0.1185139	0.02595588	7.18E-06
A	G	0.04	-0.3037593	0.06566353	5.50E-06

C	T	0.04	-0.3154936	0.06618836	2.91E-06
G	A	0.04	-0.3037593	0.06566353	5.50E-06
T	C	0.04	-0.3037593	0.06566353	5.50E-06
G	A	0.04	-0.3037593	0.06566353	5.50E-06
CGTGTGT	C	0.01	-0.5007672	0.1109997	9.13E-06
A	ATGCACAGCTGAGCT	0.27	0.1416837	0.02851265	1.14E-06
A	AACACAC	0.18	0.1512536	0.03329347	7.95E-06
G	A	0.02	-0.4694176	0.091392	5.12E-07
CAAG	C	0.45	0.11807	0.02595277	7.73E-06
T	C	0.01	-0.5138389	0.1077241	2.87E-06
A	G	0.01	-0.5881226	0.1259412	4.52E-06
C	T	0.02	-0.3780043	0.07896522	2.65E-06
C	T	0.03	-0.3694302	0.0768714	2.43E-06
T	C	0.02	-0.3780043	0.07896522	2.65E-06
T	C	0.03	-0.3362439	0.07465339	9.43E-06
A	G	0.03	-0.3490015	0.07758992	9.68E-06
C	G	0.02	-0.4266419	0.09049132	3.69E-06
A	G	0.02	-0.4266419	0.09049132	3.69E-06
T	TA	0.02	-0.4266419	0.09049132	3.69E-06
TCTA	T	0.02	-0.4266419	0.09049132	3.69E-06
T	C	0.37	-0.1193178	0.02641457	8.91E-06
GAGAGCAATT	G	0.18	-0.1512	0.03216171	3.92E-06
A	G	0.47	0.12498	0.02549235	1.55E-06
G	A	0.01	-0.5933843	0.1164186	6.19E-07
C	CAAA	0.02	-0.3827455	0.08327194	6.28E-06
G	A	0.04	-0.2893143	0.06047541	2.69E-06
A	T	0.28	-0.1299989	0.02875187	8.74E-06
A	T	0.25	-0.1278319	0.02827579	8.76E-06
C	T	0.25	-0.1278319	0.02827579	8.76E-06
T	G	0.06	-0.2307918	0.05135835	9.87E-06
T	G	0.06	-0.2362586	0.05152515	6.59E-06
G	A	0.01	-0.5262078	0.1102795	2.85E-06
T	C	0.08	-0.2141732	0.04524881	3.39E-06
G	A	0.07	-0.2293704	0.04743474	2.12E-06
T	A	0.07	-0.2232192	0.04769237	4.31E-06
C	T	0.07	-0.2232192	0.04769237	4.31E-06
C	T	0.07	-0.2293704	0.04743474	2.12E-06
A	G	0.07	-0.2293704	0.04743474	2.12E-06
G	A	0.07	-0.2160096	0.04794401	9.37E-06
T	C	0.07	-0.2160096	0.04794401	9.37E-06
A	G	0.07	-0.222273	0.04768425	4.69E-06
C	T	0.07	-0.2160096	0.04794401	9.37E-06
G	A	0.07	-0.2160096	0.04794401	9.37E-06
T	C	0.07	-0.2160096	0.04794401	9.37E-06
T	G	0.07	-0.222273	0.04768425	4.69E-06
A	G	0.24	0.1285007	0.02745793	4.32E-06
C	G	0.02	-0.395027	0.08592085	6.24E-06
G	A	0.09	0.2073167	0.04492832	5.79E-06
A	G	0.11	0.1866564	0.04082177	6.98E-06
T	C	0.36	-0.1311102	0.02481321	2.49E-07

AT	A	0.02	-0.4195902	0.09212646	7.56E-06
TC	T	0.07	-0.2197572	0.04863376	8.85E-06
C	G	0.02	-0.3908824	0.08404834	4.92E-06
T	TA	0.01	-0.5277034	0.1080114	1.68E-06
G	A	0.01	-0.5554228	0.1121702	1.24E-06
G	T	0.01	-0.5554228	0.1121702	1.24E-06
T	C	0.01	-0.4711469	0.1028815	6.76E-06
A	C	0.02	-0.4806253	0.1051037	6.97E-06
A	G	0.01	-0.5477614	0.1194865	6.62E-06
T	TCACACACA	0.07	-0.2221258	0.04915788	8.85E-06
G	C	0.01	-0.5319677	0.1077724	1.33E-06
C	G	0.08	-0.2322323	0.04623296	8.81E-07
T	G	0.07	-0.2250834	0.04755861	3.40E-06
G	A	0.07	-0.2230376	0.04901023	7.68E-06
A	G	0.07	-0.2296957	0.04791819	2.58E-06
C	A	0.07	-0.2171449	0.0470897	5.87E-06
T	G	0.07	-0.2215077	0.04636258	2.77E-06
CA	C	0.08	-0.206723	0.04352225	3.15E-06
G	T	0.04	-0.2811539	0.06220261	8.80E-06
C	T	0.01	-0.571809	0.1272052	9.81E-06
A	G	0.02	-0.410875	0.08363964	1.48E-06
G	A	0.02	-0.4590963	0.09200567	1.03E-06
G	A	0.02	-0.4590963	0.09200567	1.03E-06
C	T	0.02	-0.4590963	0.09200567	1.03E-06
G	A	0.23	0.1377179	0.03003985	6.62E-06
T	A	0.3	0.1279345	0.02742383	4.62E-06
C	T	0.02	-0.5049663	0.1039878	1.93E-06
T	C	0.11	-0.1815361	0.0396971	6.96E-06
C	T	0.09	-0.2025413	0.04372388	5.35E-06
T	C	0.02	-0.3729889	0.07902404	3.60E-06
G	A	0.03	-0.3789949	0.07849669	2.20E-06
ACACATCTGTCACCT	A	0.04	-0.2988522	0.06264758	2.86E-06
T	C	0.32	-0.1236006	0.02620388	3.65E-06
T	G	0.11	-0.188326	0.04137241	7.64E-06
G	A	0.11	-0.1850025	0.04102571	9.21E-06
G	A	0.11	-0.1933795	0.04146988	4.66E-06
G	A	0.11	-0.1864265	0.04087663	7.35E-06
T	C	0.11	-0.1864265	0.04087663	7.35E-06
T	C	0.11	-0.1968355	0.04132421	2.96E-06
T	A	0.11	-0.2032337	0.0414097	1.52E-06
T	TACACAC	0.36	-0.1356848	0.02745301	1.29E-06
T	C	0.43	-0.1160571	0.02513158	5.70E-06
A	T	0.46	-0.1178914	0.02528416	4.67E-06
A	T	0.45	-0.1149763	0.02517317	7.14E-06
C	G	0.46	-0.1165964	0.02536186	6.25E-06
A	T	0.46	-0.1183049	0.02511	3.74E-06
G	T	0.44	-0.1147638	0.02525244	7.89E-06
G	A	0.45	-0.1156637	0.02503543	5.65E-06
C	A	0.45	-0.1181741	0.02472128	2.74E-06
T	C	0.46	-0.1153256	0.02501741	5.91E-06

C	T	0.45	-0.1162549	0.02484909	4.35E-06
G	C	0.46	-0.1141619	0.02493191	6.78E-06
C	A	0.46	-0.1136908	0.02496556	7.58E-06
A	G	0.46	-0.1142812	0.02493101	6.63E-06
C	T	0.38	-0.1222827	0.02593075	3.67E-06
C	A	0.46	-0.1142812	0.02493101	6.63E-06
A	C	0.46	-0.1125145	0.0249957	9.54E-06
C	G	0.46	-0.1135443	0.02489869	7.37E-06
T	C	0.46	-0.1117485	0.02475525	9.03E-06
G	A	0.01	-0.5348171	0.1057222	7.44E-07
C	G	0.02	-0.3883177	0.08626855	9.55E-06
AC	A	0.09	-0.2155931	0.04626273	4.72E-06
G	A	0.02	-0.4259791	0.09379502	8.00E-06
A	G	0.02	-0.4315269	0.09200126	4.12E-06
A	ACACGCGCGCG	0.05	-0.3174103	0.06180283	5.13E-07
A	G	0.3	-0.1499835	0.03051877	1.47E-06
C	T	0.24	-0.1583532	0.03268986	2.04E-06
A	G	0.24	-0.1619936	0.03277304	1.29E-06
CTG	C	0.24	-0.1646193	0.03274428	8.63E-07
A	G	0.32	-0.1332622	0.02952207	9.03E-06
C	A	0.18	-0.1623235	0.03539887	6.59E-06
C	G	0.18	-0.1638406	0.03532431	5.21E-06
G	A	0.18	-0.1638406	0.03532431	5.21E-06
T	C	0.33	-0.1395098	0.0284779	1.58E-06
G	GGT	0.08	-0.2405584	0.05157477	4.63E-06
T	C	0.42	-0.1265359	0.02726145	5.13E-06
A	G	0.25	0.1523403	0.03147069	2.07E-06
G	C	0.24	0.1501538	0.03147919	2.87E-06
C	G	0.25	0.1442066	0.03128119	5.91E-06
G	C	0.24	0.1480818	0.03275626	8.77E-06
T	C	0.11	0.1905051	0.04090119	4.77E-06
G	A	0.11	0.1958613	0.0409763	2.74E-06
AT	A	0.02	0.4589363	0.1015622	8.84E-06
C	T	0.09	0.2127093	0.0466511	7.39E-06
C	T	0.36	-0.1440496	0.02801817	5.00E-07
A	G	0.37	-0.1437704	0.02798003	5.07E-07
C	A	0.37	-0.143688	0.02798652	5.18E-07
T	C	0.37	-0.1487471	0.02798891	2.14E-07
A	G	0.37	-0.1486702	0.02788139	1.96E-07
C	A	0.39	-0.1446204	0.02773582	3.51E-07
G	A	0.37	-0.139299	0.02796919	1.08E-06
A	T	0.37	-0.1413105	0.02795217	7.55E-07
G	T	0.39	-0.1371315	0.02760037	1.14E-06
G	A	0.39	-0.1410303	0.02778628	6.86E-07
G	A	0.37	-0.143154	0.02784517	5.01E-07
C	T	0.39	-0.1371114	0.02766237	1.21E-06
A	G	0.36	-0.1475802	0.02812003	2.97E-07
T	TTTTG	0.37	-0.1535744	0.02725814	4.26E-08
T	G	0.49	0.1228067	0.02697242	7.60E-06
C	T	0.38	-0.1386252	0.02779516	1.04E-06

A	G	0.4	-0.1334833	0.02732523	1.69E-06
A	G	0.4	-0.1390526	0.02754911	7.85E-07
C	T	0.35	-0.1382447	0.02796747	1.29E-06
A	G	0.11	0.2013896	0.04421521	7.55E-06
A	G	0.07	-0.233004	0.05174795	9.49E-06
A	G	0.2	-0.1546838	0.03333948	5.17E-06
TC	T	0.25	0.146761	0.03220994	7.49E-06
A	G	0.25	0.1464508	0.03224709	8.00E-06
A	AT	0.25	0.146761	0.03220994	7.49E-06
G	A	0.25	0.1468572	0.03214833	7.11E-06
G	A	0.25	0.1452562	0.03220412	9.17E-06
CAT	C	0.24	0.1482565	0.03273925	8.48E-06
T	C	0.25	0.1486301	0.03217141	5.65E-06
G	A	0.25	0.1486301	0.03217141	5.65E-06
G	A	0.26	0.1447367	0.03205177	8.96E-06
G	T	0.26	0.1447367	0.03205177	8.96E-06
T	C	0.29	0.1385276	0.02974258	4.77E-06
C	G	0.31	0.1323798	0.0289162	6.81E-06
C	A	0.29	0.1376639	0.02959072	4.89E-06
T	C	0.28	0.1374178	0.03026764	8.05E-06
T	C	0.39	0.128153	0.02803154	7.00E-06
C	A	0.02	-0.4178193	0.09121999	6.74E-06
CTG	C	0.08	0.2532654	0.05030919	8.36E-07
TTTTCTTTTCTTTTC	T	0.34	-0.1220261	0.02635593	5.40E-06
C	G	0.03	-0.4198925	0.07949679	2.52E-07
G	A	0.15	0.1718931	0.03813426	9.29E-06
A	G	0.06	0.2431961	0.05358511	8.11E-06
C	T	0.09	-0.2221525	0.04811711	5.73E-06
A	G	0.09	-0.2168767	0.04819538	9.60E-06
TGCAAAGA	T	0.04	-0.3108532	0.06663044	4.61E-06
G	A	0.04	-0.3108532	0.06663044	4.61E-06
G	A	0.04	-0.3108532	0.06663044	4.61E-06
C	A	0.04	-0.3108532	0.06663044	4.61E-06
TAAG	T	0.04	-0.3108532	0.06663044	4.61E-06
C	G	0.04	-0.3070768	0.06732887	7.35E-06
A	G	0.04	-0.3108532	0.06663044	4.61E-06
T	C	0.04	-0.3023139	0.06705639	9.26E-06
G	T	0.04	-0.3108532	0.06663044	4.61E-06
A	G	0.04	-0.3108532	0.06663044	4.61E-06
C	T	0.04	-0.3108532	0.06663044	4.61E-06
T	G	0.04	-0.3094405	0.06718037	6.01E-06
G	A	0.04	-0.304797	0.06737883	8.66E-06
G	A	0.04	-0.3094405	0.06718037	6.01E-06
G	A	0.03	-0.3451466	0.07311105	3.59E-06
G	A	0.12	0.1880146	0.04134612	7.80E-06
C	G	0.11	0.1940445	0.04220406	6.24E-06
G	A	0.05	0.3016956	0.06645129	8.05E-06
G	GTATA	0.04	-0.3302653	0.07074992	4.55E-06
T	G	0.18	-0.1658248	0.03674722	9.09E-06
G	A	0.26	0.1486572	0.03172596	4.21E-06

A	AT	0.11	0.1847674	0.04104636	9.54E-06
C	T	0.27	0.1382665	0.03061614	8.95E-06
G	A	0.03	-0.3826943	0.08390855	7.35E-06
T	C	0.15	-0.1648629	0.03625742	7.81E-06
T	C	0.15	-0.1672057	0.0364053	6.37E-06
G	A	0.15	-0.167087	0.03620208	5.77E-06
T	G	0.25	-0.1454712	0.03110873	4.39E-06
A	G	0.25	-0.1433431	0.03107926	5.85E-06
G	C	0.25	-0.1454712	0.03110873	4.39E-06
A	G	0.15	-0.1672057	0.0364053	6.37E-06
A	T	0.27	-0.1495698	0.03015404	1.19E-06
A	G	0.27	-0.1346274	0.02984213	9.14E-06
G	C	0.19	0.1730092	0.03404545	6.66E-07
A	G	0.04	-0.334416	0.07417478	9.25E-06
A	G	0.39	0.1215333	0.02677771	8.10E-06
T	C	0.23	0.1481935	0.02429995	3.64E-09
T	C	0.23	0.1454842	0.02411049	5.17E-09
T	C	0.25	0.1386738	0.02276586	3.79E-09
C	T	0.23	0.149815	0.02429725	2.52E-09
G	T	0.14	0.2531353	0.04210949	6.83E-09
G	A	0.14	0.2531353	0.04210949	6.83E-09
TACACACAC	T	0.01	-0.9970533	0.1577529	1.34E-09
C	T	0.01	-0.7168685	0.1211599	9.75E-09
G	A	0.01	-0.7168685	0.1211599	9.75E-09
T	C	0.23	0.1743523	0.02780241	1.45E-09
T	C	0.23	0.1720806	0.02756232	1.69E-09
T	C	0.25	0.1661152	0.02592621	6.77E-10
C	T	0.23	0.1760736	0.0278057	1.03E-09
A	G	0.23	0.1675437	0.02759859	4.33E-09
T	G	0.27	0.1604537	0.02686972	7.39E-09
G	C	0.26	0.1625025	0.02695948	5.47E-09
AG	A	0.01	-0.9233295	0.1400148	2.28E-10
T	C	0.25	0.1789266	0.02966138	5.33E-09
C	T	0.24	0.1887013	0.03160057	7.39E-09
C	T	0.23	0.1741468	0.02856966	4.06E-09
C	G	0.23	0.1704241	0.02830117	6.03E-09
C	T	0.02	-0.9642176	0.1527661	1.19E-09
C	CA	0.29	0.1433741	0.02205869	3.93E-10
A	G	0.29	0.1364276	0.02267989	5.74E-09
T	C	0.28	0.1361369	0.02234479	3.78E-09
G	A	0.29	0.1336772	0.0222691	6.15E-09
C	G	0.29	0.1342733	0.02213253	4.35E-09
T	C	0.29	0.1340121	0.02209369	4.38E-09
G	T	0.29	0.1340121	0.02209369	4.38E-09
A	G	0.29	0.1338171	0.02228411	6.07E-09
A	G	0.29	0.1338808	0.02213439	4.80E-09
C	T	0.28	0.1428848	0.02256141	1.00E-09
C	T	0.28	0.1328302	0.02224866	7.32E-09
T	C	0.28	0.136963	0.02249471	3.86E-09
G	T	0.28	0.1374387	0.02260148	4.03E-09

G	A	0.28	0.1392244	0.02254862	2.42E-09
T	C	0.23	0.1512561	0.02323355	3.70E-10
T	C	0.23	0.1516376	0.02301456	2.37E-10
A	G	0.24	0.1385466	0.02236161	2.15E-09
T	C	0.25	0.1459344	0.02166496	1.01E-10
C	T	0.23	0.1559289	0.02320705	1.12E-10
A	G	0.23	0.1508049	0.02301661	2.92E-10
C	G	0.23	0.1441921	0.02293228	1.29E-09
C	T	0.01	-0.5560423	0.09092252	3.34E-09
G	A	0.01	-0.5560423	0.09092252	3.34E-09
T	TCCTC	0.11	-0.2464154	0.04041114	4.48E-09
T	C	0.23	0.1771206	0.02922697	4.49E-09
T	C	0.23	0.1728629	0.02902068	7.86E-09
C	T	0.23	0.1814183	0.02919686	1.94E-09
A	G	0.23	0.1727792	0.02902333	8.00E-09
C	G	0.23	0.1733275	0.02885783	6.02E-09
T	C	0.23	0.2728957	0.04351358	1.43E-09
T	C	0.23	0.2634512	0.04323258	3.79E-09
C	T	0.23	0.2680465	0.04356036	2.73E-09
A	G	0.23	0.2608963	0.04325831	5.32E-09
C	G	0.23	0.2585534	0.04304143	6.05E-09
C	CA	0.3	0.1383305	0.02279264	4.27E-09
G	A	0.14	0.193068	0.0312663	2.39E-09
T	C	0.23	0.1485933	0.02395721	2.06E-09
T	C	0.23	0.1438543	0.02378511	4.78E-09
T	C	0.25	0.1331215	0.02247971	9.43E-09
C	T	0.23	0.147204	0.02398166	2.93E-09
A	G	0.23	0.1453183	0.02377038	3.35E-09
T	C	0.01	-0.9533381	0.1582967	5.56E-09
A	G	0.16	-0.1777574	0.0287703	2.39E-09
C	T	0.16	-0.1722823	0.02904847	9.13E-09
G	A	0.16	-0.1722823	0.02904847	9.13E-09
C	T	0.16	-0.1722823	0.02904847	9.13E-09
C	T	0.16	-0.1722823	0.02904847	9.13E-09
G	A	0.16	-0.1722823	0.02904847	9.13E-09
G	A	0.16	-0.1722823	0.02904847	9.13E-09
G	T	0.03	0.390572	0.06496489	6.50E-09
T	A	0.01	0.7512489	0.124889	5.78E-09
G	A	0.02	0.7175232	0.1183747	4.51E-09
CG	C	0.02	0.7175232	0.1183747	4.51E-09
T	C	0.02	0.7175232	0.1183747	4.51E-09
G	A	0.02	0.7175232	0.1183747	4.51E-09
G	A	0.02	0.7175232	0.1183747	4.51E-09
TA	T	0.01	-0.9156036	0.15468	9.77E-09
C	G	0.22	-0.299747	0.06655938	9.80E-06
C	T	0.22	-0.3053774	0.06650039	6.64E-06
T	C	0.14	-0.3510525	0.07688071	7.45E-06
G	A	0.14	-0.3489782	0.07748277	9.77E-06
T	C	0.14	-0.3540879	0.07697678	6.42E-06
T	G	0.25	0.2745505	0.06042116	8.21E-06

G	C	0.24	0.3045185	0.06294951	2.20E-06
A	G	0.07	-0.4869077	0.1066601	7.49E-06
TAC	T	0.02	0.8201948	0.1821564	9.83E-06
T	A	0.48	0.2301743	0.05096874	9.28E-06
C	T	0.42	0.2481738	0.05474275	8.60E-06
G	A	0.42	0.2483225	0.0546227	8.13E-06
G	A	0.42	0.2483225	0.0546227	8.13E-06
T	G	0.42	0.2478397	0.05446958	7.99E-06
C	T	0.42	0.2570431	0.0544854	3.80E-06
G	A	0.42	0.2483225	0.0546227	8.13E-06
G	A	0.42	0.2490922	0.05468072	7.81E-06
G	A	0.42	0.2490922	0.05468072	7.81E-06
G	A	0.42	0.2490922	0.05468072	7.81E-06
G	A	0.42	0.2490922	0.05468072	7.81E-06
G	A	0.42	0.2507214	0.05444513	6.28E-06
A	G	0.02	0.9099436	0.1846406	1.45E-06
G	A	0.02	0.9371544	0.1855243	8.15E-07
C	T	0.3	0.2588123	0.05652743	7.05E-06
GGAAGAA	G	0.04	-0.7481076	0.1427092	3.27E-07
C	T	0.01	-1.16052	0.2499866	5.32E-06
A	G	0.09	0.4188792	0.09300071	9.77E-06
T	C	0.09	0.4188792	0.09300071	9.77E-06
C	T	0.09	0.4669688	0.09246375	8.19E-07
G	A	0.22	-0.2888031	0.06419274	9.99E-06
G	C	0.22	-0.3067126	0.06330659	2.13E-06
C	T	0.43	0.2649678	0.05581533	3.32E-06
A	G	0.05	0.5892666	0.1299706	8.58E-06
CT	C	0.02	0.8603871	0.1870045	6.39E-06
A	G	0.03	-0.7823666	0.1721887	8.22E-06
A	G	0.06	-0.5513496	0.1192436	5.78E-06
G	C	0.35	0.2502092	0.05487909	7.68E-06
C	CAT	0.02	0.9458798	0.2014602	4.20E-06
C	A	0.02	-0.9622072	0.2070079	5.18E-06
GAT	G	0.02	-1.071622	0.2216741	2.24E-06
AT	A	0.49	-0.2730704	0.05355281	6.50E-07
A	C	0.49	0.2458522	0.05448358	9.42E-06
C	T	0.01	0.8147137	0.1638697	1.18E-06
G	A	0.02	-1.083836	0.2099163	4.78E-07
C	T	0.01	1.156576	0.2473006	4.56E-06
C	CATGTAGATTAAT	0.03	0.7176641	0.1534161	4.54E-06
T	G	0.02	-0.9369685	0.2078579	9.61E-06
C	T	0.43	0.2442771	0.05380369	8.35E-06
A	C	0.07	-0.5062461	0.1019098	1.21E-06
T	C	0.01	-0.9521638	0.1529662	2.45E-09
T	C	0.01	-1.065325	0.178443	8.53E-09
G	A	0.02	0.3860388	0.06451288	7.58E-09
T	G	0.02	0.3887092	0.06343551	3.51E-09
TCA	T	0.14	0.3701936	0.06082688	4.35E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
C	T	0.03	-0.4772199	0.07981369	9.78E-09
C	G	0.03	-0.4772199	0.07981369	9.78E-09

G	C	0.03	-0.4772199	0.07981369	9.78E-09
C	T	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
T	A	0.03	-0.4772199	0.07981369	9.78E-09
G	C	0.03	-0.4772199	0.07981369	9.78E-09
C	G	0.03	-0.4772199	0.07981369	9.78E-09
A	G	0.03	-0.4772199	0.07981369	9.78E-09
CAAG	C	0.03	-0.4772199	0.07981369	9.78E-09
T	A	0.03	-0.4772199	0.07981369	9.78E-09
C	G	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
G	A	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
G	T	0.03	-0.4772199	0.07981369	9.78E-09
C	T	0.03	-0.4772199	0.07981369	9.78E-09
T	C	0.03	-0.4772199	0.07981369	9.78E-09
T	A	0.03	-0.4772199	0.07981369	9.78E-09
CAG	C	0.01	-0.6714508	0.105067	1.12E-09
G	C	0.02	-0.552343	0.08230359	1.97E-10
T	A	0.02	0.7676923	0.1271842	5.69E-09
G	A	0.02	0.7676923	0.1271842	5.69E-09
C	T	0.02	0.7676923	0.1271842	5.69E-09
C	A	0.02	0.7676923	0.1271842	5.69E-09
CAA	C	0.02	0.7676923	0.1271842	5.69E-09
A	G	0.02	0.7676923	0.1271842	5.69E-09
G	A	0.02	0.7676923	0.1271842	5.69E-09
C	A	0.02	0.7676923	0.1271842	5.69E-09
G	A	0.02	0.7676923	0.1271842	5.69E-09
T	C	0.02	0.7676923	0.1271842	5.69E-09
G	C	0.02	0.7676923	0.1271842	5.69E-09
TG	T	0.02	0.7676923	0.1271842	5.69E-09
G	A	0.02	0.7676923	0.1271842	5.69E-09
T	TAAAACA	0.02	0.7676923	0.1271842	5.69E-09
A	G	0.02	0.7676923	0.1271842	5.69E-09
C	T	0.02	0.7676923	0.1271842	5.69E-09
T	TAA	0.02	0.7676923	0.1271842	5.69E-09
C	T	0.02	0.7676923	0.1271842	5.69E-09
A	G	0.02	0.7676923	0.1271842	5.69E-09
T	C	0.02	0.7676923	0.1271842	5.69E-09
G	T	0.02	0.7676923	0.1271842	5.69E-09
T	A	0.01	0.9533899	0.1583388	5.52E-09
G	C	0.25	0.2482394	0.04181664	8.71E-09
C	G	0.27	-0.1209113	0.02681243	9.21E-06
C	T	0.36	-0.1240927	0.02704309	6.49E-06
T	C	0.1	-0.191587	0.04253947	9.45E-06
A	G	0.14	0.1725183	0.037558	6.36E-06
T	C	0.14	0.182518	0.0378418	2.25E-06
G	A	0.12	0.1915575	0.03944014	1.92E-06

C	T	0.11	0.2132498	0.04044113	2.63E-07
G	A	0.14	0.182518	0.0378418	2.25E-06
A	C	0.46	0.1242391	0.02487273	1.01E-06
TCACA	T	0.13	-0.1884792	0.04063881	5.21E-06
TA	T	0.28	0.1259017	0.02787219	8.91E-06
T	G	0.22	-0.1510987	0.03315285	7.45E-06
A	T	0.04	0.2886605	0.06376324	8.53E-06
C	A	0.46	0.1121018	0.02495901	9.97E-06
A	C	0.18	0.1561088	0.03409864	6.81E-06
G	T	0.18	0.1561088	0.03409864	6.81E-06
G	T	0.18	0.1561088	0.03409864	6.81E-06
A	G	0.18	0.1561088	0.03409864	6.81E-06
T	C	0.18	0.1561088	0.03409864	6.81E-06
C	T	0.18	0.1561088	0.03409864	6.81E-06
C	T	0.18	0.1561088	0.03409864	6.81E-06
A	G	0.18	0.1539048	0.03415421	9.35E-06
C	G	0.18	0.1560483	0.03412125	6.95E-06
C	T	0.37	0.1233533	0.02695488	6.86E-06
G	A	0.37	0.1259268	0.02694819	4.46E-06
CA	C	0.37	0.1292958	0.02696655	2.56E-06
G	C	0.06	-0.2827084	0.05655461	9.89E-07
G	A	0.33	0.1354208	0.02817457	2.43E-06
G	A	0.02	0.3924453	0.08674967	8.65E-06
A	G	0.02	0.3924453	0.08674967	8.65E-06
C	T	0.02	0.3799116	0.08217738	5.57E-06
G	A	0.02	0.3799116	0.08217738	5.57E-06
T	C	0.02	0.3799116	0.08217738	5.57E-06
C	G	0.02	0.3799116	0.08217738	5.57E-06
AGATAGATAGATAGA	A	0.1	-0.2009879	0.04412869	7.55E-06
ATT	A	0.1	0.1954659	0.04329775	9.01E-06
T	A	0.02	0.4346177	0.09498939	6.89E-06
A	T	0.04	0.3076088	0.06669276	5.85E-06
C	CTGTGTG	0.03	0.3346701	0.07315693	6.91E-06
G	T	0.07	-0.2318473	0.05120414	8.50E-06
T	G	0.42	-0.1180567	0.02614197	8.95E-06
A	G	0.45	0.1168267	0.02527072	5.57E-06
T	C	0.45	0.1178891	0.02522423	4.44E-06
C	T	0.08	0.2229425	0.04908629	7.99E-06
G	C	0.02	0.469723	0.09147736	5.16E-07
A	G	0.34	0.1242413	0.02720179	7.14E-06
G	T	0.34	0.1252714	0.02643113	3.30E-06
G	A	0.06	-0.2804429	0.0529766	2.37E-07
G	A	0.27	-0.1299978	0.02893088	9.88E-06
A	G	0.05	0.282835	0.06075702	4.83E-06
G	C	0.1	0.2017468	0.04349828	5.21E-06
T	C	0.43	-0.111779	0.02474515	8.90E-06
C	A	0.48	0.1113462	0.02406931	5.50E-06
G	C	0.04	0.3224247	0.06698255	2.35E-06
C	T	0.04	0.3221013	0.06921858	4.86E-06
C	T	0.04	0.3263989	0.06633069	1.43E-06

G	A	0.04	0.3221013	0.06921858	4.86E-06
CA	C	0.04	0.3263369	0.06850441	2.95E-06
A	G	0.05	0.2969451	0.05925682	9.33E-07
T	G	0.05	0.2969451	0.05925682	9.33E-07
A	C	0.05	0.2969451	0.05925682	9.33E-07
T	A	0.04	0.3221013	0.06921858	4.86E-06
C	T	0.04	0.3221013	0.06921858	4.86E-06
A	C	0.04	0.3309623	0.06966372	3.13E-06
C	T	0.04	0.3309623	0.06966372	3.13E-06
TTTTGGTACCAGTAC	T	0.03	0.3733461	0.07852935	3.08E-06
C	T	0.04	0.3221013	0.06921858	4.86E-06
C	T	0.05	0.3410959	0.06287823	1.24E-07
AAAAG	A	0.05	0.3219269	0.06168104	3.42E-07
G	C	0.05	0.3000681	0.06038946	1.14E-06
G	A	0.05	0.3178244	0.06215572	5.72E-07
G	A	0.05	0.3219269	0.06168104	3.42E-07
T	G	0.05	0.2862524	0.06172369	5.22E-06
T	G	0.05	0.2979145	0.06194234	2.39E-06
C	T	0.05	0.3183923	0.06211208	5.38E-07
T	G	0.05	0.3000681	0.06038946	1.14E-06
G	A	0.05	0.3000681	0.06038946	1.14E-06
GAAT	G	0.05	0.3000681	0.06038946	1.14E-06
T	C	0.05	0.3135976	0.0626163	9.46E-07
A	G	0.05	0.3135976	0.0626163	9.46E-07
A	C	0.05	0.3260353	0.06297753	4.21E-07
G	C	0.05	0.3032245	0.06223167	1.79E-06
G	T	0.05	0.2866878	0.06229506	6.12E-06
T	C	0.12	0.1838331	0.04057891	8.41E-06
A	G	0.23	0.1419496	0.0308322	6.07E-06
A	C	0.42	0.1187969	0.02548996	4.71E-06
G	A	0.16	0.354984	0.0753075	3.75E-06
C	T	0.15	0.3700476	0.07716149	2.58E-06
A	G	0.21	0.3226032	0.06826857	3.56E-06
A	G	0.21	0.3135335	0.06826855	6.45E-06
G	A	0.21	0.3226032	0.06826857	3.56E-06
C	T	0.21	0.3226032	0.06826857	3.56E-06
G	T	0.21	0.3220644	0.06831577	3.74E-06
G	A	0.15	0.3838887	0.07779929	1.36E-06
G	A	0.15	0.3838887	0.07779929	1.36E-06
G	A	0.21	0.3109563	0.06910296	9.70E-06
C	A	0.21	0.3109563	0.06910296	9.70E-06
T	A	0.21	0.3109563	0.06910296	9.70E-06
G	A	0.19	0.3334406	0.07087093	3.90E-06
C	T	0.21	0.3084647	0.06810567	8.53E-06
C	G	0.2	0.318396	0.06937165	6.53E-06
C	T	0.21	0.3096027	0.06796546	7.61E-06
C	T	0.21	0.3140267	0.06869776	7.09E-06
C	T	0.21	0.3109563	0.06910296	9.70E-06
T	TAC	0.14	0.3948767	0.08564291	5.95E-06
T	TTACAAAA	0.21	0.3130265	0.0693172	9.05E-06

A	G	0.21	0.3109563	0.06910296	9.70E-06
G	A	0.21	0.3109563	0.06910296	9.70E-06
C	T	0.21	0.3119615	0.06915111	9.23E-06
G	A	0.21	0.3113083	0.0691454	9.60E-06
C	T	0.21	0.3109563	0.06910296	9.70E-06
A	G	0.21	0.3153315	0.06864882	6.43E-06
C	T	0.21	0.3109563	0.06910296	9.70E-06
CTT	C	0.21	0.3109563	0.06910296	9.70E-06
C	G	0.21	0.3109563	0.06910296	9.70E-06
T	C	0.21	0.3109563	0.06910296	9.70E-06
T	C	0.21	0.3109563	0.06910296	9.70E-06
A	G	0.21	0.3109563	0.06910296	9.70E-06
A	G	0.21	0.3199396	0.06902534	5.34E-06
G	A	0.21	0.3109563	0.06910296	9.70E-06
T	C	0.21	0.3109563	0.06910296	9.70E-06
T	C	0.21	0.3109563	0.06910296	9.70E-06
TA	T	0.21	0.3109563	0.06910296	9.70E-06
G	A	0.21	0.3109563	0.06910296	9.70E-06
TTGAA	T	0.24	0.2852332	0.06201124	6.25E-06
G	C	0.21	0.3109563	0.06910296	9.70E-06
T	C	0.21	0.3109563	0.06910296	9.70E-06
T	A	0.21	0.3164787	0.06862202	5.92E-06
A	G	0.21	0.314335	0.06912775	7.89E-06
T	C	0.21	0.3106775	0.06909447	9.85E-06
A	T	0.21	0.3106775	0.06909447	9.85E-06
C	T	0.21	0.3179027	0.06904127	6.12E-06
T	C	0.21	0.3123242	0.06909559	8.88E-06
C	A	0.21	0.3106775	0.06909447	9.85E-06
TTCTCAATAACC	T	0.2	0.3311554	0.07001241	3.48E-06
CA	C	0.21	0.3106775	0.06909447	9.85E-06
C	T	0.21	0.3123206	0.06908871	8.86E-06
AT	A	0.21	0.3106775	0.06909447	9.85E-06
T	G	0.21	0.3196762	0.06901879	5.42E-06
A	G	0.21	0.3106775	0.06909447	9.85E-06
A	G	0.21	0.3122305	0.06911521	8.98E-06
ACCT	A	0.21	0.3106775	0.06909447	9.85E-06
C	T	0.21	0.3106775	0.06909447	9.85E-06
A	C	0.15	0.370305	0.07775171	3.00E-06
T	C	0.21	0.3196762	0.06901879	5.42E-06
C	T	0.21	0.3196762	0.06901879	5.42E-06
C	A	0.21	0.3233269	0.06863137	3.80E-06
C	T	0.21	0.3106775	0.06909447	9.85E-06
T	C	0.21	0.3106775	0.06909447	9.85E-06
A	AATAGTT	0.21	0.3046379	0.06709906	8.13E-06
G	A	0.21	0.3106775	0.06909447	9.85E-06
C	T	0.21	0.315547	0.0682858	5.69E-06
G	T	0.21	0.3116993	0.06868615	8.21E-06
A	G	0.21	0.3106775	0.06909447	9.85E-06
A	C	0.21	0.3106775	0.06909447	9.85E-06
T	C	0.21	0.3196762	0.06901879	5.42E-06

G	A	0.21	0.3106775	0.06909447	9.85E-06
G	A	0.15	0.3715491	0.07710498	2.32E-06
T	C	0.21	0.3106775	0.06909447	9.85E-06
C	A	0.22	0.3287937	0.06659186	1.34E-06
C	G	0.2	0.3180305	0.06918301	6.33E-06
C	T	0.2	0.3189735	0.06998153	7.52E-06
T	G	0.2	0.3153924	0.06953301	8.29E-06
C	A	0.15	0.3736915	0.0773469	2.19E-06
T	A	0.2	0.3189735	0.06998153	7.52E-06
T	C	0.2	0.3148003	0.07003747	9.92E-06
G	A	0.16	0.3293384	0.07185135	6.71E-06
A	G	0.2	0.3148003	0.07003747	9.92E-06
G	T	0.2	0.3148003	0.07003747	9.92E-06
T	G	0.2	0.3148003	0.07003747	9.92E-06
C	T	0.2	0.3148003	0.07003747	9.92E-06
T	G	0.2	0.3150938	0.07001817	9.69E-06
C	T	0.2	0.31644	0.07006375	9.02E-06
G	A	0.2	0.3148003	0.07003747	9.92E-06
A	G	0.2	0.3189735	0.06998153	7.52E-06
T	C	0.2	0.3148003	0.07003747	9.92E-06
A	T	0.2	0.3201483	0.07017595	7.38E-06
C	T	0.2	0.3189735	0.06998153	7.52E-06
C	T	0.2	0.3155608	0.0695598	8.26E-06
AT	A	0.19	0.3518618	0.07163502	1.51E-06
G	T	0.2	0.3189735	0.06998153	7.52E-06
C	T	0.2	0.3148003	0.07003747	9.92E-06
C	CT	0.2	0.3148003	0.07003747	9.92E-06
T	C	0.2	0.3148003	0.07003747	9.92E-06
T	G	0.2	0.3148003	0.07003747	9.92E-06
C	A	0.2	0.3181002	0.0700705	8.15E-06
C	T	0.2	0.3148003	0.07003747	9.92E-06
C	T	0.2	0.3174361	0.06999917	8.32E-06
A	G	0.2	0.3148003	0.07003747	9.92E-06
G	A	0.2	0.3209289	0.07004343	6.77E-06
T	C	0.2	0.3189735	0.06998153	7.52E-06
G	A	0.2	0.3184093	0.07009803	8.05E-06
T	C	0.2	0.3233741	0.06994223	5.62E-06
A	G	0.2	0.3153538	0.07011393	9.79E-06
GAA	G	0.04	-0.7217162	0.144823	1.08E-06
T	A	0.16	0.3666742	0.07914408	5.39E-06
G	T	0.13	-0.3934766	0.08075219	1.81E-06
G	A	0.08	-0.4458326	0.09585827	4.97E-06
T	C	0.34	-0.2680152	0.05867066	7.19E-06
C	T	0.35	-0.2829277	0.05854369	2.18E-06
G	GC	0.35	-0.2737621	0.05800572	3.65E-06
T	C	0.34	-0.2714145	0.05863851	5.50E-06
T	TA	0.01	-0.8706397	0.1898967	6.68E-06
G	A	0.12	-0.4092271	0.08288022	1.34E-06
T	TCAGAAG	0.12	-0.4459024	0.08298459	1.63E-07
T	TGGATGGATGGAC	0.16	-0.3267003	0.07167743	7.52E-06

T	A	0.1	-0.4114045	0.08430801	1.75E-06
GCA	G	0.15	-0.3945234	0.08160014	2.16E-06
T	C	0.05	0.5720173	0.1208328	3.42E-06
G	A	0.02	-0.9344624	0.1998831	4.46E-06
G	A	0.02	-0.9344624	0.1998831	4.46E-06
A	AT	0.09	0.4503803	0.09784432	6.16E-06
T	C	0.02	-1.006017	0.21702	5.33E-06
G	GAGAAAGAA	0.06	-0.5559024	0.1172329	3.30E-06
C	CTG	0.45	0.2527436	0.05350983	3.59E-06
C	T	0.45	0.2407406	0.05342264	9.43E-06
C	T	0.45	0.2429629	0.053506	8.11E-06
A	G	0.45	0.2483442	0.05356682	5.31E-06
C	T	0.45	0.2455089	0.05342938	6.38E-06
A	G	0.08	-0.4635355	0.1024593	8.73E-06
T	C	0.08	-0.4635355	0.1024593	8.73E-06
C	A	0.08	-0.4635355	0.1024593	8.73E-06
A	C	0.13	-0.3674941	0.07782988	3.62E-06
T	C	0.13	-0.379885	0.07855601	2.15E-06
TACAC	T	0.08	-0.4635355	0.1024593	8.73E-06
A	G	0.08	-0.4635355	0.1024593	8.73E-06
G	A	0.13	-0.3513913	0.0773524	8.04E-06
G	A	0.13	-0.3756991	0.07850982	2.71E-06
T	G	0.13	-0.379885	0.07855601	2.15E-06
G	GT	0.08	-0.4635355	0.1024593	8.73E-06
G	A	0.08	-0.4635355	0.1024593	8.73E-06
C	T	0.08	-0.4635355	0.1024593	8.73E-06
A	G	0.14	-0.3369493	0.07393536	7.54E-06
A	T	0.08	-0.4635355	0.1024593	8.73E-06
G	A	0.08	-0.4635355	0.1024593	8.73E-06
G	A	0.13	-0.3729	0.07788609	2.68E-06
C	T	0.13	-0.3668366	0.07798194	3.92E-06
T	A	0.08	-0.4635355	0.1024593	8.73E-06
A	G	0.13	-0.3925031	0.07765629	7.71E-07
G	A	0.08	-0.4635355	0.1024593	8.73E-06
C	T	0.08	-0.4635355	0.1024593	8.73E-06
T	C	0.13	-0.3668366	0.07798194	3.92E-06
G	C	0.08	-0.4635355	0.1024593	8.73E-06
T	C	0.17	0.3427013	0.07163691	2.73E-06
C	A	0.17	0.3398235	0.07119168	2.86E-06
C	T	0.12	0.3770793	0.08233394	6.83E-06
A	T	0.16	0.3344749	0.07316036	7.07E-06
A	G	0.16	0.3344749	0.07316036	7.07E-06
T	C	0.16	0.3344749	0.07316036	7.07E-06
A	G	0.16	0.3344749	0.07316036	7.07E-06
G	A	0.16	0.3344749	0.07316036	7.07E-06
T	C	0.16	0.3344749	0.07316036	7.07E-06
T	C	0.16	0.3303031	0.07323432	9.27E-06
A	G	0.1	0.426201	0.09290795	6.60E-06
G	A	0.1	0.426201	0.09290795	6.60E-06
G	A	0.1	0.426201	0.09290795	6.60E-06

G	A	0.07	0.4749387	0.103899	7.09E-06
G	A	0.1	0.425698	0.09338645	7.50E-06
A	G	0.03	-0.791163	0.1731735	7.17E-06
A	G	0.03	-0.7973134	0.1687231	3.55E-06
G	A	0.03	-0.7654981	0.1666764	6.45E-06
G	A	0.03	-0.7973134	0.1687231	3.55E-06
G	A	0.03	-0.8180778	0.1712587	2.81E-06
C	T	0.03	-0.8180778	0.1712587	2.81E-06
C	A	0.03	-0.7973134	0.1687231	3.55E-06
C	T	0.03	-0.7973134	0.1687231	3.55E-06
A	G	0.03	-0.7973134	0.1687231	3.55E-06
C	A	0.03	-0.7973134	0.1687231	3.55E-06
G	A	0.03	-0.8094572	0.170963	3.41E-06
C	G	0.03	-0.7973134	0.1687231	3.55E-06
G	T	0.03	-0.7973134	0.1687231	3.55E-06
C	T	0.03	-0.7973134	0.1687231	3.55E-06
C	T	0.03	-0.8094572	0.170963	3.41E-06
A	C	0.03	-0.7973134	0.1687231	3.55E-06
T	G	0.03	-0.7973134	0.1687231	3.55E-06
G	A	0.03	-0.7973134	0.1687231	3.55E-06
C	A	0.03	-0.8253077	0.1708605	2.20E-06
T	C	0.03	-0.7973134	0.1687231	3.55E-06
A	G	0.03	-0.7895703	0.1651461	2.76E-06
C	T	0.03	-0.7895703	0.1651461	2.76E-06
G	A	0.03	-0.7895703	0.1651461	2.76E-06
T	C	0.03	-0.7895703	0.1651461	2.76E-06
T	A	0.03	-0.7895703	0.1651461	2.76E-06
C	G	0.03	-0.8541406	0.1668587	5.66E-07
A	T	0.03	-0.7895703	0.1651461	2.76E-06
T	C	0.03	-0.7895703	0.1651461	2.76E-06
C	T	0.03	-0.7895703	0.1651461	2.76E-06
T	C	0.03	-0.7895703	0.1651461	2.76E-06
T	C	0.03	-0.8114859	0.1664122	1.78E-06
T	C	0.03	-0.7895703	0.1651461	2.76E-06
A	T	0.03	-0.7895703	0.1651461	2.76E-06
G	A	0.03	-0.7895703	0.1651461	2.76E-06
G	C	0.03	-0.7895703	0.1651461	2.76E-06
A	C	0.03	-0.7895703	0.1651461	2.76E-06
A	G	0.03	-0.7895703	0.1651461	2.76E-06
G	A	0.03	-0.7895703	0.1651461	2.76E-06
A	G	0.03	-0.7895703	0.1651461	2.76E-06
G	A	0.03	-0.7895703	0.1651461	2.76E-06
T	A	0.03	-0.7895703	0.1651461	2.76E-06
C	G	0.03	-0.7895703	0.1651461	2.76E-06
A	T	0.03	-0.7895703	0.1651461	2.76E-06
C	G	0.03	-0.7895703	0.1651461	2.76E-06
C	T	0.03	-0.7895703	0.1651461	2.76E-06
G	GA	0.03	-0.7895703	0.1651461	2.76E-06
A	C	0.03	-0.7895703	0.1651461	2.76E-06
G	A	0.03	-0.7895703	0.1651461	2.76E-06

A	G	0.02	0.8758114	0.1942447	9.33E-06
CA	C	0.09	-0.4521174	0.09496128	3.03E-06
A	G	0.09	-0.441908	0.09567848	5.75E-06
G	A	0.09	-0.4329911	0.09605556	9.37E-06
G	A	0.09	-0.4329911	0.09605556	9.37E-06
A	G	0.34	-0.2672309	0.05756923	5.18E-06
A	C	0.35	0.2403687	0.05117647	4.05E-06
T	G	0.03	-0.7193717	0.1574909	7.20E-06
T	A	0.03	-0.7193717	0.1574909	7.20E-06
C	T	0.03	-0.7193717	0.1574909	7.20E-06
T	C	0.05	-0.556528	0.1227098	8.31E-06
T	G	0.05	-0.556528	0.1227098	8.31E-06
A	G	0.05	-0.556528	0.1227098	8.31E-06
T	A	0.05	-0.556528	0.1227098	8.31E-06
A	C	0.05	-0.556528	0.1227098	8.31E-06
C	G	0.05	-0.556528	0.1227098	8.31E-06
G	A	0.05	-0.556528	0.1227098	8.31E-06
G	A	0.05	-0.556528	0.1227098	8.31E-06
C	T	0.05	-0.5758412	0.1231506	4.45E-06
T	A	0.05	-0.556528	0.1227098	8.31E-06
G	A	0.05	-0.556528	0.1227098	8.31E-06
C	T	0.05	-0.556528	0.1227098	8.31E-06
C	T	0.05	-0.556528	0.1227098	8.31E-06
C	A	0.08	-0.4456751	0.09776273	7.49E-06
C	T	0.01	-1.223641	0.268461	7.52E-06
G	C	0.07	-0.5440871	0.109392	1.13E-06
A	G	0.09	-0.4304839	0.0939662	6.78E-06
C	A	0.01	0.5454999	0.1177562	5.34E-06
C	T	0.03	0.35344	0.07856604	9.66E-06
TTG	T	0.04	0.2902435	0.06429896	9.03E-06
CAA	C	0.28	-0.1351965	0.02815899	2.49E-06
G	T	0.19	0.1438984	0.03193331	9.34E-06
A	G	0.05	0.3000739	0.06055237	1.21E-06
A	G	0.03	0.3712602	0.07975936	4.84E-06
A	G	0.04	0.3128461	0.06775027	5.71E-06
G	A	0.45	0.1227898	0.02597207	3.48E-06
T	C	0.46	0.12249	0.02597745	3.68E-06
A	C	0.46	0.1238146	0.02594945	2.85E-06
T	C	0.46	0.1235331	0.02585291	2.76E-06
G	A	0.44	0.1213056	0.02658549	7.28E-06
T	C	0.02	0.5804137	0.1035958	5.00E-08
A	G	0.02	0.5804137	0.1035958	5.00E-08
A	C	0.02	0.5070552	0.1047047	2.05E-06
A	T	0.01	0.4968108	0.1090082	7.45E-06
A	C	0.01	0.4964642	0.1090514	7.62E-06
G	T	0.02	0.483837	0.09437453	5.36E-07
C	A	0.12	0.1742184	0.0368585	3.49E-06
ATAGT	A	0.12	0.1799374	0.03744528	2.44E-06
A	C	0.12	0.1769221	0.03888038	7.69E-06
C	T	0.12	0.1844075	0.03894857	3.37E-06

G	A	0.11	0.2004382	0.04006002	9.67E-07
T	A	0.11	0.1957902	0.03995223	1.57E-06
A	G	0.14	0.1930128	0.03699206	3.45E-07
C	G	0.03	0.3831282	0.07052017	1.19E-07
C	T	0.02	0.4903288	0.1045579	4.13E-06
TA	T	0.24	0.1406695	0.03031963	5.18E-06
C	T	0.22	0.1449213	0.03152338	6.25E-06
A	AGTGTGTGTGT	0.09	0.2101283	0.04604659	7.27E-06
T	C	0.13	0.1748441	0.03856506	8.28E-06
T	G	0.11	0.1946781	0.04218381	5.78E-06
T	C	0.03	0.3660023	0.07909155	5.46E-06
A	AACACAC	0.1	0.2009198	0.04471946	9.90E-06
T	A	0.05	-0.2941004	0.05981659	1.46E-06
C	T	0.05	-0.2941004	0.05981659	1.46E-06
CAAT	C	0.05	-0.3040146	0.06044992	8.56E-07
A	G	0.02	0.4903285	0.1061522	5.67E-06
T	C	0.01	0.6007617	0.1240254	2.04E-06
C	G	0.04	0.3135666	0.0686794	7.19E-06
GA	G	0.49	-0.1126299	0.02464953	7.08E-06
T	C	0.41	-0.1210657	0.02666999	8.08E-06
C	T	0.38	-0.1245562	0.02645575	3.80E-06
T	C	0.4	-0.1258852	0.02688758	4.28E-06
T	C	0.4	-0.1258852	0.02688758	4.28E-06
A	G	0.05	0.2981687	0.05642881	2.49E-07
G	C	0.05	0.2891109	0.05591544	4.34E-07
A	C	0.06	0.2725796	0.05283041	4.58E-07
TA	T	0.41	0.1203948	0.02565494	4.07E-06
A	ATAGATAGATAGG	0.07	0.2270279	0.05021982	8.77E-06
C	T	0.09	0.2123858	0.0450377	3.67E-06
T	C	0.25	0.1404499	0.02911157	2.23E-06
A	G	0.02	0.4693201	0.1023257	6.56E-06
CA	C	0.05	0.2976265	0.06349799	4.18E-06
G	A	0.01	0.579145	0.1271529	7.55E-06
G	A	0.02	0.397462	0.08600977	5.62E-06
G	A	0.16	0.1895981	0.03572765	2.23E-07
G	A	0.13	0.2023232	0.03894659	3.86E-07
AAAG	A	0.1	0.18244	0.04055034	9.64E-06
TCACA	T	0.12	0.2098723	0.04039651	3.85E-07
G	A	0.08	0.2201035	0.0469047	4.08E-06
G	A	0.04	0.3156241	0.06951537	8.04E-06
C	T	0.04	0.3156241	0.06951537	8.04E-06
G	A	0.08	0.2200924	0.04651227	3.41E-06
G	C	0.08	0.2311909	0.04712477	1.53E-06
G	A	0.08	0.2412897	0.04731166	6.10E-07
ATG	A	0.08	0.2175281	0.04703163	5.52E-06
C	T	0.08	0.2210457	0.04690836	3.73E-06
C	T	0.08	0.2308815	0.04709078	1.55E-06
A	C	0.08	0.2308815	0.04709078	1.55E-06
T	C	0.08	0.2210457	0.04690836	3.73E-06
C	G	0.08	0.2308815	0.04709078	1.55E-06

T	A	0.08	0.2170164	0.04707574	5.91E-06
T	G	0.07	0.2165746	0.04805925	9.34E-06
C	T	0.08	0.2210457	0.04690836	3.73E-06
G	T	0.08	0.2308815	0.04709078	1.55E-06
C	T	0.08	0.2249738	0.04739343	3.19E-06
G	C	0.08	0.2233478	0.04747426	3.86E-06
G	A	0.08	0.2331934	0.04740934	1.44E-06
C	T	0.08	0.23127	0.04771294	2.01E-06
G	A	0.08	0.2325274	0.04764694	1.73E-06
T	TTGTG	0.04	-0.3292825	0.06904071	2.88E-06
C	A	0.46	0.1189173	0.02566726	5.33E-06
T	C	0.31	0.129273	0.02843879	7.86E-06
A	T	0.02	0.3971854	0.08574699	5.35E-06
T	A	0.02	0.3971854	0.08574699	5.35E-06
C	T	0.02	0.4522851	0.09375816	2.24E-06
C	A	0.06	0.2753863	0.05795587	3.12E-06
C	T	0.02	0.4778488	0.1044852	6.95E-06
CTCTCTCTGTG	C	0.03	0.3440989	0.076138	8.82E-06
C	T	0.1	-0.2062457	0.04359451	3.43E-06
C	G	0.1	-0.2031306	0.04379934	5.22E-06
GAAA	G	0.29	-0.1333019	0.02611915	6.00E-07
C	T	0.06	0.248301	0.0551723	9.58E-06
AGTGT	A	0.31	0.1479563	0.03009757	1.46E-06
T	C	0.07	0.2284062	0.04964831	6.16E-06
T	G	0.07	0.2284062	0.04964831	6.16E-06
A	T	0.08	0.2308004	0.04885558	3.54E-06
G	A	0.05	0.2879094	0.05831107	1.32E-06
T	C	0.07	0.2303697	0.04995974	5.88E-06
AG	A	0.08	0.2400517	0.04689347	5.57E-07
T	C	0.07	0.2344594	0.04897667	2.65E-06
T	A	0.07	0.2303697	0.04995974	5.88E-06
T	C	0.08	0.2347449	0.04793526	1.59E-06
GA	G	0.08	0.2251645	0.04543875	1.21E-06
A	G	0.08	0.2308004	0.04885558	3.54E-06
C	T	0.08	0.2267536	0.04908056	5.65E-06
T	C	0.07	0.2303697	0.04995974	5.88E-06
G	A	0.28	-0.1322358	0.02922662	8.62E-06
G	A	0.23	-0.1359642	0.02990818	7.84E-06
A	G	0.28	-0.1339284	0.02918998	6.51E-06
A	G	0.28	-0.133792	0.029107	6.27E-06
A	G	0.28	-0.1349349	0.02925117	5.83E-06
A	G	0.28	-0.13272	0.02904307	7.06E-06
T	C	0.28	-0.1319377	0.0291629	8.64E-06
T	A	0.28	-0.1337213	0.02910842	6.35E-06
C	T	0.03	0.343615	0.07576673	8.23E-06
G	A	0.39	0.1223253	0.02642849	5.44E-06
A	G	0.43	0.1198302	0.02614804	6.67E-06
T	A	0.46	-0.1294096	0.02703006	2.65E-06
C	T	0.03	0.3680269	0.07740106	3.07E-06
A	G	0.18	-0.1623174	0.03395128	2.73E-06

AGCTTGTCTGGGGA	T	0.07	0.2290659	0.049331	5.09E-06
G	A	0.42	-0.1274336	0.0270642	3.79E-06
G	GT	0.06	-0.2639862	0.056125	3.88E-06
T	C	0.29	0.1417646	0.02940369	2.27E-06
C	T	0.46	-0.1184648	0.02634712	9.76E-06
G	C	0.41	-0.1248382	0.02764433	8.96E-06
G	A	0.35	-0.1285469	0.02823882	7.64E-06
T	C	0.35	-0.1296327	0.02816686	6.11E-06
A	C	0.35	-0.1289667	0.02822304	7.07E-06
T	TGA	0.03	0.3484124	0.07677885	8.13E-06
C	T	0.02	0.4739988	0.08978177	2.55E-07
T	G	0.02	0.4540187	0.08599049	2.54E-07
TACAC	T	0.02	0.4086306	0.08544034	2.71E-06
G	C	0.02	0.4644164	0.09445125	1.45E-06
G	C	0.36	0.1264248	0.02795575	8.71E-06
A	C	0.29	0.1441093	0.02785266	4.27E-07
C	T	0.07	-0.2420514	0.05198153	4.80E-06
C	T	0.06	-0.2527445	0.05573634	8.25E-06
T	C	0.11	0.1965892	0.04093171	2.47E-06
A	G	0.04	-0.2915593	0.06266173	4.88E-06
G	C	0.43	-0.1174398	0.02578993	7.58E-06
T	A	0.37	0.1198906	0.02500975	2.57E-06
G	GTCTCTC	0.09	-0.2091566	0.04602833	7.91E-06
T	C	0.43	-0.1267709	0.02389201	2.23E-07
T	A	0.46	-0.1158334	0.02416655	2.58E-06
T	C	0.48	-0.113217	0.02431541	4.80E-06
C	G	0.06	0.2314352	0.05133711	9.27E-06
A	G	0.08	0.2131733	0.04667626	7.15E-06
G	C	0.08	0.2146889	0.0457993	4.17E-06
C	T	0.05	0.2607294	0.05796394	9.68E-06
A	T	0.18	-0.1580677	0.03390466	4.68E-06
T	A	0.17	-0.1558971	0.03454255	9.06E-06
T	C	0.18	-0.1557455	0.03388063	6.26E-06
A	C	0.18	-0.1594631	0.03369261	3.40E-06
T	G	0.18	-0.1580112	0.03389765	4.69E-06
G	A	0.16	-0.1696933	0.0343468	1.30E-06
T	G	0.16	-0.1672281	0.03398771	1.43E-06
C	T	0.16	-0.1604004	0.03397439	3.58E-06
C	T	0.16	-0.1559308	0.0343074	7.88E-06
A	G	0.16	-0.161805	0.0337585	2.58E-06
T	C	0.16	-0.161203	0.03422501	3.77E-06
T	C	0.16	-0.1679782	0.03435412	1.65E-06
G	A	0.15	-0.1580871	0.03502456	9.05E-06
G	T	0.16	-0.1655667	0.03461524	2.70E-06
G	T	0.16	-0.1648279	0.03435607	2.53E-06
TTCTC	T	0.17	-0.1751086	0.03281039	1.92E-07
TACACACAC	T	0.08	-0.2299481	0.04847499	3.23E-06
C	T	0.21	-0.1661046	0.0313461	2.31E-07
T	C	0.16	-0.1615836	0.0348075	5.12E-06
T	C	0.08	0.2281233	0.04735163	2.30E-06

TAC	T	0.04	-0.2971197	0.06561693	8.49E-06
G	T	0.17	-0.1492057	0.03211364	5.02E-06
CG	C	0.22	-0.1444964	0.03041213	3.12E-06
TA	T	0.03	-0.3182624	0.0693983	6.57E-06
C	T	0.07	0.2336759	0.04968024	3.88E-06
ATG	A	0.03	-0.3753015	0.07789647	2.30E-06
G	A	0.01	-1.028162	0.1691535	4.51E-09
C	T	0.01	-1.028162	0.1691535	4.51E-09
CTCA	C	0.01	-1.028162	0.1691535	4.51E-09
T	C	0.01	-1.028162	0.1691535	4.51E-09
A	G	0.01	-1.028162	0.1691535	4.51E-09
C	T	0.01	-0.8982293	0.1491988	6.15E-09
GGTGTGTGTGTGT	G	0.01	-1.118264	0.1650954	9.47E-11
A	G	0.01	-0.739688	0.1209136	3.90E-09
C	G	0.11	0.1773189	0.02960082	7.41E-09
T	G	0.12	0.1726856	0.02910219	1.00E-08
G	C	0.06	0.2357605	0.05238511	9.58E-06
G	C	0.44	0.118127	0.0262	9.24E-06
C	T	0.4	0.1193058	0.02579804	5.53E-06
C	T	0.41	0.116828	0.02595446	9.55E-06
CT	C	0.16	0.1524783	0.03346358	7.49E-06
G	A	0.1	0.2022935	0.04361102	5.20E-06
G	A	0.42	-0.1262875	0.02484974	6.65E-07
A	G	0.02	0.3905058	0.08692894	9.93E-06
C	A	0.04	0.3182123	0.06667281	2.83E-06
T	C	0.35	0.1329603	0.02778758	2.68E-06
C	G	0.35	0.1319026	0.02776049	3.12E-06
A	G	0.35	0.1320929	0.02772223	2.94E-06
A	T	0.32	0.1294179	0.02810658	6.05E-06
TATATATACATACA	T	0.05	0.2700929	0.05715143	3.51E-06
AACACACACAC	A	0.04	0.3359304	0.07032588	2.78E-06
C	T	0.03	0.3547585	0.07843871	8.69E-06
G	A	0.09	0.2104904	0.04558701	5.72E-06
AT	A	0.16	0.1604805	0.03439713	4.61E-06
G	T	0.09	-0.1979634	0.04404535	9.83E-06
G	A	0.13	0.1689502	0.03745273	9.15E-06
G	A	0.13	0.1697499	0.03745076	8.32E-06
T	C	0.13	0.1718854	0.03738391	6.24E-06
T	C	0.13	0.1691151	0.03734247	8.46E-06
C	T	0.13	0.1697499	0.03745076	8.32E-06
C	T	0.13	0.1697499	0.03745076	8.32E-06
C	T	0.13	0.1697499	0.03745076	8.32E-06
T	C	0.13	0.1691151	0.03734247	8.46E-06
C	T	0.13	0.1721305	0.0373768	6.03E-06
G	A	0.03	0.3862016	0.08192701	3.70E-06
T	C	0.48	0.1203228	0.02658607	8.58E-06
C	T	0.42	-0.1199744	0.02659303	9.13E-06
CTCTCTTCTT	C	0.16	-0.1641196	0.03442089	2.89E-06
C	T	0.02	0.4417205	0.09666227	7.06E-06
G	A	0.48	0.1165548	0.02555124	7.32E-06

G	A	0.45	-0.1310962	0.0257091	6.13E-07
A	C	0.48	-0.1320859	0.02575685	5.33E-07
G	A	0.44	-0.1295059	0.0254551	6.48E-07
G	C	0.45	-0.120457	0.02547809	3.48E-06
A	C	0.49	-0.1367469	0.02527207	1.32E-07
C	G	0.44	-0.1257733	0.02546894	1.32E-06
T	C	0.41	-0.1163997	0.02492852	4.53E-06
G	C	0.42	-0.1236662	0.02487169	1.12E-06
T	C	0.45	-0.138046	0.02558185	1.43E-07
C	G	0.44	-0.1309568	0.025562	5.46E-07
A	G	0.47	-0.1368047	0.02627332	3.63E-07
T	G	0.47	-0.1272491	0.02480568	5.29E-07
T	C	0.45	-0.1322302	0.02574637	5.13E-07
A	G	0.45	-0.130109	0.0256967	7.28E-07
C	T	0.44	-0.1271682	0.02531944	8.84E-07
C	G	0.46	-0.1269165	0.02556476	1.16E-06
T	A	0.44	-0.1263476	0.02537053	1.08E-06
T	C	0.44	-0.1296844	0.02552668	6.71E-07
G	A	0.5	-0.1245322	0.02363278	2.68E-07
T	A	0.45	-0.1285702	0.02560248	8.87E-07
G	A	0.45	-0.1312104	0.02565154	5.67E-07
T	A	0.45	-0.131702	0.02555918	4.73E-07
C	G	0.45	-0.1352501	0.02571765	2.82E-07
T	C	0.45	-0.1323787	0.02560708	4.36E-07
C	T	0.44	-0.1336698	0.02553369	3.17E-07
C	T	0.45	-0.135512	0.02559713	2.37E-07
C	G	0.45	-0.1324382	0.02569202	4.68E-07
G	A	0.45	-0.1284495	0.02568447	9.78E-07
A	G	0.44	-0.1325247	0.02574853	4.87E-07
G	C	0.46	0.1106142	0.02457306	9.54E-06
A	G	0.47	-0.1318438	0.02635062	9.67E-07
C	T	0.45	-0.1317765	0.02579802	5.87E-07
G	T	0.45	-0.1277186	0.02571081	1.15E-06
T	C	0.47	-0.1459842	0.02628061	6.39E-08
G	C	0.44	-0.1333326	0.02561365	3.66E-07
G	A	0.41	-0.1427161	0.02553338	5.36E-08
A	G	0.5	-0.1174983	0.02615567	9.93E-06
A	G	0.45	-0.1232583	0.02662088	5.40E-06
T	C	0.01	0.5354173	0.1105929	2.07E-06
A	T	0.06	0.2625762	0.05352401	1.53E-06
G	A	0.25	-0.1370678	0.02978539	6.13E-06
A	C	0.25	-0.138721	0.02977628	4.75E-06
A	G	0.25	-0.138721	0.02977628	4.75E-06
A	G	0.25	-0.135883	0.02980461	7.40E-06
G	C	0.01	-0.8250489	0.1293827	8.09E-10
A	T	0.18	-0.2716996	0.04415073	2.94E-09
TTG	T	0.02	0.6475236	0.1005944	5.60E-10
G	A	0.1	0.3434692	0.05633893	3.68E-09
G	A	0.1	0.3516911	0.05762333	3.67E-09
G	A	0.29	0.2007831	0.0333346	6.07E-09

AC	A	0.01	-0.7418896	0.1218776	4.17E-09
C	T	0.02	-0.6606487	0.1093782	5.38E-09
T	G	0.02	0.6050757	0.1004024	5.93E-09
G	A	0.04	0.6521695	0.1421888	6.57E-06
C	T	0.02	0.9198688	0.20349	8.79E-06
C	T	0.22	0.3141735	0.06605162	3.06E-06
C	T	0.06	-0.4941278	0.1090774	8.43E-06
A	G	0.02	1.066211	0.2144899	1.13E-06
A	AG	0.02	0.9574524	0.2131193	9.94E-06
A	G	0.02	0.8626993	0.1901524	8.18E-06
G	A	0.02	1.070419	0.2186428	1.61E-06
C	T	0.01	1.230354	0.2360329	3.55E-07
GA	G	0.02	1.032805	0.2164327	2.85E-06
C	A	0.02	0.8494178	0.1805985	3.89E-06
A	G	0.02	1.018478	0.2256047	9.03E-06
G	C	0.09	0.4658807	0.09559305	1.78E-06
C	T	0.09	0.4622879	0.0976081	3.35E-06
CTCTT	C	0.09	0.4678525	0.09541258	1.55E-06
A	G	0.09	0.4622879	0.0976081	3.35E-06
C	T	0.09	0.4622879	0.0976081	3.35E-06
G	A	0.09	0.4737502	0.09722041	1.79E-06
G	T	0.08	0.4948889	0.1020873	2.01E-06
TA	T	0.09	0.4636549	0.09818876	3.58E-06
G	C	0.08	0.4778775	0.09830973	1.89E-06
C	T	0.02	1.002888	0.2190543	6.82E-06
A	G	0.01	1.019833	0.2242787	7.82E-06
G	A	0.01	0.9923159	0.2184411	7.97E-06
G	C	0.01	1.21752	0.2597946	4.20E-06
G	A	0.01	1.230806	0.2596326	3.29E-06
A	T	0.01	1.043342	0.2269571	6.27E-06
G	A	0.01	1.125628	0.2184358	4.74E-07
G	A	0.02	0.9850952	0.1975237	1.05E-06
G	T	0.02	1.169396	0.2187125	1.83E-07
T	C	0.02	1.169396	0.2187125	1.83E-07
TTC	T	0.01	1.103508	0.2371603	4.88E-06
C	CA	0.02	0.8820849	0.1868565	3.60E-06
G	T	0.02	0.9270936	0.1999379	5.25E-06
A	G	0.01	1.109362	0.2347856	3.53E-06
AT	A	0.03	0.6043715	0.1312668	6.08E-06
C	CT	0.1	0.4103979	0.08903141	5.93E-06
C	T	0.02	0.9474935	0.2105579	9.62E-06
A	G	0.08	0.4461401	0.09703402	6.25E-06
T	A	0.01	1.182807	0.2317373	6.00E-07
T	A	0.01	1.16789	0.2446972	2.84E-06
G	A	0.01	1.178437	0.2454163	2.49E-06
G	A	0.1	0.4261768	0.08641239	1.36E-06
G	A	0.04	0.6196468	0.1367319	8.37E-06
G	A	0.01	1.181881	0.2410529	1.56E-06
G	A	0.37	-0.2583846	0.05102045	7.26E-07
T	G	0.45	-0.2486494	0.05435178	6.92E-06

A	G	0.44	-0.2610877	0.05530113	3.59E-06
C	A	0.45	-0.2633029	0.05564993	3.43E-06
A	C	0.45	-0.2576863	0.05557383	5.25E-06
C	A	0.32	-0.2648491	0.05893045	9.86E-06
G	A	0.01	1.1176	0.2407963	5.15E-06
T	C	0.06	0.5547543	0.1169196	3.23E-06
G	A	0.14	0.3543186	0.07584773	4.50E-06
T	A	0.01	1.318857	0.2575626	5.55E-07
C	CT	0.01	1.13505	0.2347963	2.14E-06
C	T	0.03	0.7372411	0.1632262	8.94E-06
A	T	0.02	0.8660569	0.1723824	8.80E-07
C	G	0.01	1.226501	0.2723206	9.46E-06
G	C	0.02	0.8672282	0.1915135	8.50E-06
G	A	0.02	0.8672282	0.1915135	8.50E-06
C	T	0.02	0.8672282	0.1915135	8.50E-06
G	A	0.02	0.8672282	0.1915135	8.50E-06
T	TTGTG	0.02	0.8217983	0.1766964	4.93E-06
T	C	0.02	0.9705982	0.1784586	1.16E-07
A	G	0.01	0.9990611	0.2203061	8.25E-06
T	TA	0.01	0.9610856	0.2008559	2.68E-06
CTCTCTT	C	0.01	1.138185	0.2509396	8.22E-06
T	TA	0.18	0.3142909	0.06940999	8.51E-06
G	T	0.17	0.3468598	0.06969849	1.10E-06
C	T	0.01	1.050894	0.2263105	5.09E-06
G	A	0.01	1.045826	0.212196	1.38E-06
T	A	0.01	1.045826	0.212196	1.38E-06
C	T	0.01	1.045826	0.212196	1.38E-06
AT	A	0.01	1.045826	0.212196	1.38E-06
C	T	0.01	1.045826	0.212196	1.38E-06
A	G	0.01	1.045826	0.212196	1.38E-06
G	T	0.01	1.045826	0.212196	1.38E-06
C	T	0.01	1.045826	0.212196	1.38E-06
C	T	0.01	1.045826	0.212196	1.38E-06
TA	T	0.01	1.045826	0.212196	1.38E-06
C	T	0.01	1.045826	0.212196	1.38E-06
A	G	0.02	0.8422292	0.1813807	5.10E-06
G	T	0.02	0.8422292	0.1813807	5.10E-06
C	A	0.02	0.7439406	0.16526	9.55E-06
G	GGTGTGTG	0.01	1.405227	0.2672823	2.85E-07
C	A	0.01	1.168211	0.2536734	6.05E-06
CA	C	0.28	-0.2710954	0.05974244	8.15E-06
A	G	0.28	-0.2679878	0.05953406	9.56E-06
T	C	0.28	-0.2663949	0.05924663	9.77E-06
T	G	0.28	-0.2663949	0.05924663	9.77E-06
A	G	0.28	-0.2663949	0.05924663	9.77E-06
T	C	0.28	-0.2663949	0.05924663	9.77E-06
T	G	0.28	-0.2663949	0.05924663	9.77E-06
T	C	0.28	-0.2663949	0.05924663	9.77E-06
T	C	0.28	-0.2709097	0.05972208	8.21E-06
C	G	0.02	0.8750099	0.1832489	2.81E-06

T	C	0.01	1.12232	0.243192	5.79E-06
T	C	0.08	0.4594831	0.1005519	7.08E-06
A	G	0.08	0.4594831	0.1005519	7.08E-06
C	T	0.15	0.3322624	0.07305504	7.79E-06
A	G	0.01	1.087403	0.2370916	6.57E-06
G	T	0.01	1.144631	0.2351805	1.84E-06
G	A	0.04	0.6823679	0.149787	7.53E-06
C	T	0.01	1.019821	0.2266754	9.66E-06
A	G	0.04	0.6655547	0.1410517	3.63E-06
G	C	0.28	0.2662243	0.05804171	6.56E-06
T	C	0.28	0.2637204	0.05806594	8.01E-06
G	A	0.01	1.179237	0.2480264	3.09E-06
A	T	0.21	0.4555629	0.07465301	4.44E-09
TTC	T	0.01	1.285167	0.2129537	5.85E-09
G	A	0.02	0.9989629	0.1638902	4.06E-09
G	A	0.02	0.8768097	0.1481117	9.70E-09
C	T	0.01	1.364896	0.2222008	2.99E-09
G	GGTGTGTGT	0.01	1.588258	0.266215	7.45E-09
G	A	0.01	0.9463554	0.1547723	3.33E-09
C	T	0.02	0.4212007	0.08367464	8.38E-07
C	G	0.03	0.3974065	0.0801535	1.20E-06
C	T	0.02	0.4119977	0.08840889	4.72E-06
C	T	0.02	0.4119977	0.08840889	4.72E-06
G	C	0.01	0.6010682	0.1259648	2.85E-06
G	A	0.02	0.4356829	0.0898373	1.99E-06
T	TCA	0.15	0.1789297	0.03838599	4.69E-06
T	TA	0.23	0.1250586	0.0277555	9.36E-06
G	A	0.19	0.1448994	0.03093161	4.23E-06
AT	A	0.22	-0.1378121	0.03026684	7.60E-06
G	A	0.24	-0.1319962	0.02872141	6.29E-06
A	G	0.24	-0.1332989	0.02870878	5.09E-06
T	TA	0.22	-0.1378121	0.03026684	7.60E-06
G	A	0.36	-0.1137038	0.0251823	8.98E-06
T	C	0.36	-0.1139183	0.02535751	9.92E-06
T	C	0.36	-0.1161193	0.02525593	6.24E-06
C	T	0.36	-0.1173025	0.02545487	5.95E-06
C	T	0.35	-0.1144891	0.02505117	7.05E-06
T	TG	0.37	-0.1153247	0.02555656	9.09E-06
A	G	0.37	-0.1164414	0.02547038	7.00E-06
T	C	0.37	-0.1161702	0.02534616	6.65E-06
A	G	0.37	-0.1161702	0.02534616	6.65E-06
T	C	0.37	-0.1144156	0.02537879	9.26E-06
G	A	0.37	-0.1141423	0.02541627	9.99E-06
G	A	0.37	-0.1165797	0.02544141	6.68E-06
A	G	0.37	-0.1161702	0.02534616	6.65E-06
C	T	0.37	-0.1161702	0.02534616	6.65E-06
A	G	0.37	-0.1196959	0.02533833	3.54E-06
C	T	0.37	-0.1161702	0.02534616	6.65E-06
T	TC	0.1	0.1887981	0.04165108	8.31E-06
T	A	0.11	-0.1980339	0.04160175	3.00E-06

C	T	0.02	0.4472084	0.0990941	9.07E-06
GGGAA	G	0.02	0.4574056	0.1016713	9.65E-06
A	G	0.04	0.3095763	0.06866131	9.24E-06
T	C	0.04	0.3095763	0.06866131	9.24E-06
G	A	0.06	-0.2532682	0.05564764	7.66E-06
A	G	0.4	0.1328855	0.02690839	1.31E-06
A	G	0.39	0.1309627	0.02693452	1.88E-06
C	A	0.4	0.1291097	0.02693928	2.59E-06
T	TACACACAC	0.03	0.368018	0.08021496	6.52E-06
AG	A	0.04	0.2958552	0.06038716	1.58E-06
T	C	0.04	0.3089845	0.06175262	9.67E-07
T	A	0.04	0.3054036	0.06215071	1.47E-06
G	A	0.15	-0.1623343	0.0359415	8.93E-06
A	AT	0.12	0.186158	0.03854789	2.18E-06
C	T	0.02	0.458888	0.09877811	5.04E-06
A	G	0.02	0.391835	0.08616107	7.79E-06
T	C	0.05	0.2847243	0.05788902	1.44E-06
G	A	0.3	0.1249314	0.02749526	7.92E-06
C	T	0.02	0.3937892	0.08561147	6.18E-06
C	G	0.03	-0.2907263	0.0635106	6.82E-06
G	A	0.01	-0.509099	0.1073745	3.27E-06
G	A	0.01	-0.509099	0.1073745	3.27E-06
G	A	0.01	-0.5453711	0.1142305	2.81E-06
T	G	0.02	-0.3999668	0.08715248	6.48E-06
C	CAAGAGG	0.02	-0.4154932	0.08984028	5.53E-06
T	C	0.43	-0.1025192	0.02282894	1.00E-05
A	C	0.02	-0.3595353	0.07670161	4.17E-06
A	AAAATTTTTTGATTTT(C	0.05	-0.2434229	0.05190762	4.13E-06
T	C	0.03	-0.368415	0.06830701	1.45E-07
GC	G	0.02	-0.3853105	0.07065482	1.07E-07
C	T	0.03	-0.3208274	0.07090761	8.62E-06
T	C	0.03	-0.3208274	0.07090761	8.62E-06
G	GT	0.03	-0.3349983	0.07170657	4.48E-06
C	T	0.02	-0.3846645	0.08102518	3.18E-06
T	G	0.02	-0.4118019	0.08899879	5.47E-06
T	G	0.02	-0.4118019	0.08899879	5.47E-06
A	G	0.02	-0.4118019	0.08899879	5.47E-06
T	C	0.02	-0.4118019	0.08899879	5.47E-06
A	G	0.02	-0.4118019	0.08899879	5.47E-06
T	A	0.02	-0.4118019	0.08899879	5.47E-06
T	C	0.02	-0.419023	0.08731057	2.51E-06
G	C	0.01	-0.4533444	0.1008878	9.88E-06
C	T	0.05	-0.2617996	0.05451827	2.48E-06
T	C	0.36	0.1043595	0.02305883	8.57E-06
T	G	0.48	-0.101036	0.02183592	5.47E-06
C	G	0.48	-0.1061446	0.02171664	1.67E-06
C	A	0.48	-0.1023617	0.02176633	3.89E-06
ACCCCG	A	0.01	-0.5053138	0.1106128	7.11E-06
A	C	0.01	-0.456591	0.09888296	5.71E-06
CG	C	0.01	-0.456591	0.09888296	5.71E-06

C	T	0.07	-0.1982441	0.04315251	6.34E-06
ITGTGTGTGTGTGTGT	G	0.03	-0.3142394	0.06925938	8.16E-06
G	A	0.03	-0.3192764	0.07097671	9.67E-06
TA	T	0.03	-0.3142394	0.06925938	8.16E-06
G	A	0.46	0.1047826	0.02284672	6.56E-06
G	T	0.01	-0.4637114	0.0988276	4.09E-06
G	T	0.02	-0.4007975	0.0888184	9.09E-06
C	G	0.02	-0.4007975	0.0888184	9.09E-06
C	G	0.02	-0.4007975	0.0888184	9.09E-06
G	A	0.02	-0.4467857	0.09439262	3.39E-06
G	A	0.02	-0.4008998	0.08881112	9.03E-06
C	T	0.04	-0.26713	0.05888451	8.18E-06
C	A	0.25	-0.1165561	0.02581948	9.02E-06
G	C	0.24	-0.1205452	0.02625846	6.44E-06
G	A	0.24	-0.1205452	0.02625846	6.44E-06
G	A	0.24	-0.1297779	0.02663008	1.78E-06
G	A	0.01	-0.4408424	0.09684119	7.63E-06
G	C	0.17	-0.1431285	0.02974033	2.36E-06
G	A	0.08	-0.2062016	0.04208099	1.57E-06
G	A	0.17	-0.1427123	0.03053713	4.45E-06
A	G	0.18	-0.1360775	0.03028793	9.91E-06
T	TGA	0.02	-0.3930238	0.07489302	2.98E-07
G	A	0.08	-0.2273865	0.04366611	3.63E-07
C	T	0.48	-0.1081465	0.02331839	5.22E-06
G	C	0.48	-0.1084531	0.02327692	4.74E-06
C	G	0.48	-0.1081465	0.02331839	5.22E-06
A	C	0.48	-0.1081465	0.02331839	5.22E-06
T	C	0.48	-0.1095237	0.02321659	3.64E-06
A	T	0.13	-0.1605723	0.03443044	4.65E-06
C	T	0.01	-0.4359971	0.09630821	8.53E-06
C	T	0.01	-0.4359971	0.09630821	8.53E-06
A	G	0.13	-0.1617984	0.03391595	2.86E-06
T	G	0.04	-0.2713291	0.05773977	3.96E-06
T	GTGTGTGTGTGTGTG	0.03	-0.315734	0.06885939	6.60E-06
C	T	0.19	-0.1318075	0.02843649	5.28E-06
T	A	0.19	-0.1303776	0.02756605	3.45E-06
C	T	0.02	-0.3889939	0.08567313	8.04E-06
A	G	0.02	-0.3651263	0.07835257	4.72E-06
C	G	0.03	-0.345987	0.06905988	9.38E-07
AAAG	A	0.01	-0.4515795	0.09799244	5.95E-06
A	G	0.01	-0.4731704	0.1039618	7.66E-06
G	GTGAA	0.25	0.1286101	0.02753302	4.49E-06
T	C	0.02	-0.4509806	0.0942401	2.67E-06
T	C	0.03	-0.3218251	0.06732787	2.74E-06
C	T	0.03	-0.3617766	0.06423326	4.30E-08
A	G	0.03	-0.3431301	0.06570283	3.37E-07
G	A	0.03	-0.3059077	0.06437631	3.12E-06
G	A	0.03	-0.3314593	0.06510148	6.36E-07
T	A	0.06	-0.2044384	0.04455324	6.50E-06
C	T	0.03	-0.3504954	0.06806958	4.82E-07

G	C	0.03	-0.284407	0.06302327	9.08E-06
T	A	0.03	-0.284407	0.06302327	9.08E-06
T	C	0.03	-0.3314593	0.06510148	6.36E-07
G	A	0.03	-0.3080026	0.06663157	5.59E-06
A	C	0.03	-0.3027736	0.06281055	2.28E-06
T	A	0.03	-0.2933249	0.06347915	5.63E-06
G	T	0.03	-0.284407	0.06302327	9.08E-06
C	G	0.03	-0.3357091	0.06642283	7.60E-07
C	T	0.03	-0.3314593	0.06510148	6.36E-07
T	C	0.03	-0.3428189	0.06565792	3.39E-07
C	T	0.26	0.1135811	0.02526719	9.81E-06
A	G	0.02	-0.5618421	0.09422105	7.82E-09
A	C	0.11	0.2315313	0.0382324	5.74E-09
T	C	0.11	0.2315313	0.0382324	5.74E-09
G	A	0.05	-0.5254848	0.08833582	8.28E-09
GTGTGTGTGTGTGTG	A	0.07	-0.3851379	0.0633092	4.06E-09
G	A	0.25	-0.2616548	0.05724286	7.03E-06
A	G	0.39	-0.227914	0.05054969	9.25E-06
TTGCCAAACAGAAG	T	0.02	0.7253182	0.1606251	8.97E-06
G	C	0.06	0.4666714	0.1035682	9.36E-06
C	T	0.04	0.5511471	0.12147	8.15E-06
C	T	0.02	0.9430661	0.2099367	9.94E-06
C	T	0.06	0.5103385	0.1074523	3.15E-06
C	G	0.06	0.5103385	0.1074523	3.15E-06
C	T	0.06	0.4952993	0.1087002	7.49E-06
G	A	0.06	0.5103385	0.1074523	3.15E-06
T	G	0.06	0.5318784	0.1078557	1.36E-06
A	T	0.06	0.5103385	0.1074523	3.15E-06
C	T	0.06	0.5103385	0.1074523	3.15E-06
C	T	0.06	0.5103385	0.1074523	3.15E-06
T	C	0.07	0.443756	0.0981094	8.68E-06
G	A	0.06	0.5103385	0.1074523	3.15E-06
T	A	0.06	0.5103385	0.1074523	3.15E-06
C	T	0.06	0.5103385	0.1074523	3.15E-06
T	G	0.06	0.5190229	0.1083408	2.61E-06
T	C	0.06	0.5190229	0.1083408	2.61E-06
C	T	0.11	-0.392328	0.08675964	8.72E-06
C	T	0.11	-0.3919224	0.0863986	8.19E-06
A	C	0.11	-0.3919224	0.0863986	8.19E-06
G	A	0.04	-0.64357	0.1363538	3.61E-06
A	AT	0.13	0.379204	0.07809281	1.93E-06
GT	G	0.01	1.147754	0.2397219	2.64E-06
G	T	0.19	0.2989828	0.06490413	6.00E-06
G	A	0.19	0.2989828	0.06490413	6.00E-06
T	A	0.19	0.2989828	0.06490413	6.00E-06
T	A	0.16	0.3190977	0.07035505	8.22E-06
T	A	0.19	0.2989828	0.06490413	6.00E-06
C	T	0.19	0.2989828	0.06490413	6.00E-06
C	T	0.02	-0.9545078	0.2115506	9.12E-06
C	T	0.02	-0.9545078	0.2115506	9.12E-06

C	CA	0.02	0.8143391	0.1794816	8.16E-06
C	T	0.28	0.2359797	0.05235376	9.30E-06
A	G	0.45	-0.2565156	0.05270408	1.83E-06
T	C	0.44	-0.2345098	0.05197471	9.11E-06
T	C	0.46	-0.273633	0.05230205	3.22E-07
C	T	0.38	-0.2677018	0.05400096	1.20E-06
A	G	0.42	-0.2581514	0.0521439	1.24E-06
G	A	0.37	-0.2621963	0.05398761	1.93E-06
C	T	0.38	-0.2679612	0.05403367	1.19E-06
C	G	0.4	-0.267324	0.05241822	6.11E-07
C	CT	0.4	-0.257135	0.05250593	1.59E-06
T	C	0.46	-0.2583897	0.05237011	1.34E-06
A	G	0.38	-0.264181	0.0540693	1.68E-06
T	A	0.38	-0.2652313	0.05396747	1.47E-06
G	C	0.42	-0.2530905	0.05191013	1.76E-06
C	T	0.37	-0.2649771	0.05405513	1.56E-06
C	T	0.44	-0.2327067	0.0517649	9.80E-06
A	G	0.08	0.4374717	0.09444827	5.36E-06
G	A	0.12	0.4115665	0.08094944	6.59E-07
A	C	0.12	0.3901015	0.08079891	2.20E-06
G	A	0.12	0.3901015	0.08079891	2.20E-06
G	A	0.12	0.3901015	0.08079891	2.20E-06
G	A	0.12	0.3916414	0.08088325	2.06E-06
G	A	0.02	0.7922588	0.1706859	5.13E-06
A	T	0.01	1.139658	0.2434149	4.28E-06
G	A	0.03	-0.7689484	0.1670608	6.10E-06
G	A	0.02	0.7902839	0.1757131	9.71E-06
T	C	0.16	0.3151259	0.07008034	9.75E-06
C	T	0.16	0.3270908	0.07086227	5.76E-06
G	C	0.23	0.297213	0.06207727	2.65E-06
G	C	0.03	0.7128243	0.1585487	9.78E-06
C	T	0.06	-0.5437467	0.1142044	2.99E-06
A	G	0.06	-0.5437467	0.1142044	2.99E-06
T	TACACACACACACAC	0.01	-0.9694234	0.2155944	9.75E-06
T	C	0.03	-0.778085	0.1686813	5.84E-06
G	A	0.09	0.414907	0.09157698	8.40E-06
C	T	0.19	-0.2966663	0.06460084	6.39E-06
CT	C	0.24	-0.2904647	0.06042406	2.42E-06
A	T	0.24	-0.2972061	0.06013411	1.29E-06
G	TTTCTAGAATCATCCC	0.22	-0.3211465	0.06285198	5.83E-07
T	C	0.24	-0.3050453	0.05981523	6.11E-07
G	A	0.21	-0.2998854	0.06228097	2.33E-06
C	T	0.24	-0.3064006	0.06013292	6.24E-07
G	GA	0.24	-0.2993899	0.06062948	1.32E-06
A	C	0.24	-0.2843316	0.06022235	3.58E-06
AG	A	0.25	-0.2893439	0.05977152	2.07E-06
A	G	0.24	-0.2909479	0.06018742	2.14E-06
G	C	0.24	-0.2961028	0.06014513	1.41E-06
G	A	0.22	-0.2825694	0.06150618	6.34E-06
C	A	0.19	-0.2954734	0.06557697	9.37E-06

A	G	0.19	-0.2954734	0.06557697	9.37E-06
TATTTATTTATTTATT	A	0.02	0.9597898	0.191248	9.01E-07
G	A	0.19	-0.3298866	0.06736154	1.59E-06
C	T	0.19	-0.3298866	0.06736154	1.59E-06
G	A	0.18	-0.3126944	0.06813096	6.47E-06
A	G	0.2	-0.3130752	0.06681295	4.21E-06
A	G	0.19	-0.3368987	0.06734606	9.72E-07
C	T	0.17	-0.3556012	0.0685158	3.95E-07
C	T	0.15	-0.3472713	0.07252368	2.64E-06
A	AT	0.02	0.9534327	0.188995	7.96E-07
T	C	0.02	0.8202132	0.1792634	6.89E-06
G	A	0.02	0.9608422	0.2086353	6.03E-06
A	G	0.03	0.3359525	0.0538712	1.70E-09
C	T	0.03	0.3363348	0.0547601	2.86E-09
A	G	0.02	0.4276856	0.06956016	2.76E-09
TA	T	0.01	-0.6092091	0.09446929	5.20E-10
A	AAGAG	0.03	0.7143995	0.1585803	9.44E-06
G	A	0.03	0.6667948	0.146178	7.36E-06
T	C	0.21	0.2951543	0.06527965	8.79E-06
C	T	0.22	0.2918498	0.06481288	9.53E-06
A	C	0.22	0.2918498	0.06481288	9.53E-06
T	C	0.22	0.2918498	0.06481288	9.53E-06
G	T	0.24	0.2937243	0.06289981	4.55E-06
T	C	0.22	0.2890415	0.06416463	9.45E-06
T	C	0.23	0.2950384	0.0635565	5.15E-06
A	T	0.22	0.2956437	0.06409737	5.88E-06
T	TTCTCTCTCTCTCTC	0.02	0.9385099	0.2011078	4.61E-06
AAGAGAG	A	0.05	0.5675808	0.1173194	2.11E-06
T	TGAGAGAGAGAGA	0.01	1.087199	0.2400426	8.49E-06
C	T	0.02	0.9156936	0.1988859	6.10E-06
G	T	0.03	0.7022804	0.1511656	5.06E-06
A	T	0.03	0.7022804	0.1511656	5.06E-06
A	G	0.01	-1.064519	0.2244655	3.27E-06
C	T	0.26	-0.2746245	0.06112186	9.95E-06
C	T	0.02	0.9853237	0.2111908	4.63E-06
T	C	0.02	0.9853237	0.2111908	4.63E-06
A	C	0.05	-0.5631344	0.1241198	8.20E-06
G	A	0.02	0.8385993	0.1817468	5.83E-06
G	T	0.01	1.067736	0.2337663	7.17E-06
G	T	0.02	0.9150827	0.1999941	6.92E-06
C	G	0.02	0.9817929	0.2030688	2.14E-06
AACAG	A	0.02	0.9817929	0.2030688	2.14E-06
T	C	0.02	0.9817929	0.2030688	2.14E-06
C	T	0.02	0.9817929	0.2030688	2.14E-06
G	A	0.02	0.9817929	0.2030688	2.14E-06
G	A	0.02	0.9817929	0.2030688	2.14E-06
T	A	0.02	0.9564508	0.1991656	2.49E-06
A	AGAGT	0.02	0.8923202	0.1795403	1.14E-06
C	T	0.02	0.8923202	0.1795403	1.14E-06
GTCTGTCTA	G	0.02	0.8352275	0.1797051	5.02E-06

G	GA	0.02	0.9237978	0.1841085	9.11E-07
A	G	0.02	0.9237978	0.1841085	9.11E-07
C	T	0.02	0.9237978	0.1841085	9.11E-07
C	G	0.02	0.9237978	0.1841085	9.11E-07
G	A	0.02	0.9237978	0.1841085	9.11E-07
T	G	0.02	0.9237978	0.1841085	9.11E-07
T	C	0.02	0.9237978	0.1841085	9.11E-07
G	C	0.02	0.9237978	0.1841085	9.11E-07
G	A	0.02	0.9237978	0.1841085	9.11E-07
A	G	0.02	0.9237978	0.1841085	9.11E-07
T	C	0.02	0.9620831	0.1832728	2.98E-07
G	GCACACACA	0.08	0.4554178	0.09958319	6.99E-06
GAGAGAC	G	0.36	-0.2648009	0.05590451	3.36E-06
T	C	0.05	0.567847	0.1227028	5.49E-06
G	A	0.43	-0.2408644	0.05328279	8.82E-06
C	T	0.42	-0.2414566	0.05354396	9.26E-06
T	C	0.41	-0.2417927	0.05364165	9.34E-06
C	CTT	0.48	-0.2441619	0.05216111	4.32E-06
G	T	0.11	0.3819682	0.08386594	7.60E-06
G	A	0.04	0.5701705	0.1268122	9.81E-06
TCATCCATC	T	0.48	-0.2331193	0.05138005	8.20E-06
A	G	0.04	-0.6338594	0.140164	8.75E-06
A	C	0.03	-0.7395875	0.1501841	1.41E-06
A	G	0.06	-0.5046036	0.1120501	9.51E-06
G	A	0.06	-0.494218	0.1096847	9.41E-06
C	T	0.49	0.2238987	0.04824043	5.17E-06
C	G	0.02	-0.7968233	0.1753666	7.96E-06
A	G	0.06	0.5504387	0.1113105	1.28E-06
A	G	0.07	0.4917825	0.1020629	2.31E-06
T	C	0.07	0.4997065	0.1051231	3.11E-06
A	G	0.03	0.7542303	0.1649678	7.03E-06
T	G	0.15	-0.3432818	0.07450648	6.01E-06
C	CTG	0.01	1.071389	0.2375606	9.24E-06
T	A	0.18	0.3001596	0.06605223	7.95E-06
G	A	0.06	0.4858192	0.107981	9.69E-06
G	A	0.02	0.9054769	0.1949509	5.09E-06
T	C	0.03	-0.7072083	0.1570105	9.47E-06
C	T	0.15	-0.3359445	0.07343551	6.95E-06
GT	G	0.36	0.2314489	0.04986029	5.15E-06
T	C	0.03	-0.7086471	0.1551781	7.20E-06
GTCCT	G	0.02	0.7585421	0.1671371	8.15E-06
C	G	0.02	0.7585421	0.1671371	8.15E-06
G	C	0.02	0.8748024	0.1826304	2.63E-06
T	C	0.02	0.8392928	0.1726558	1.90E-06
G	A	0.02	0.8392928	0.1726558	1.90E-06
G	C	0.02	0.8392928	0.1726558	1.90E-06
T	C	0.03	0.8333043	0.1702754	1.63E-06
T	C	0.03	0.8333043	0.1702754	1.63E-06
GT	G	0.03	0.774969	0.1584045	1.64E-06
G	A	0.02	0.8734145	0.1782051	1.58E-06

G	A	0.01	1.099996	0.2445817	9.76E-06
G	C	0.01	1.099996	0.2445817	9.76E-06
AAAAG	A	0.01	1.099996	0.2445817	9.76E-06
C	A	0.02	1.002904	0.2131885	3.89E-06
A	G	0.01	1.099996	0.2445817	9.76E-06
G	C	0.01	1.011811	0.2245848	9.43E-06
C	T	0.36	-0.2454533	0.05423474	8.62E-06
A	G	0.35	-0.2530108	0.05492763	6.04E-06
G	A	0.4	0.2628622	0.0549171	2.68E-06
C	G	0.4	0.2628622	0.0549171	2.68E-06
A	G	0.45	-0.249066	0.0542133	6.37E-06
GACAC	G	0.1	-0.4051015	0.09017888	9.98E-06
A	G	0.49	0.2309424	0.05138305	9.88E-06
TCTCA	T	0.29	0.2703564	0.05871717	6.09E-06
T	C	0.02	1.257471	0.2032023	2.86E-09
GA	G	0.01	1.103794	0.1825136	5.05E-09
G	T	0.02	0.9909139	0.166344	7.88E-09
C	A	0.01	0.5892161	0.09799897	7.05E-09
ATG	A	0.01	-1.086899	0.1665624	6.05E-10
C	T	0.12	-0.2242113	0.03747161	8.21E-09
G	A	0.15	-0.2134487	0.03471108	3.41E-09
C	T	0.15	-0.2090015	0.03495686	8.41E-09
C	T	0.15	-0.2134487	0.03471108	3.41E-09
C	T	0.15	-0.2090015	0.03495686	8.41E-09
C	T	0.16	-0.2123812	0.03468033	3.90E-09
A	T	0.15	-0.2088646	0.03501625	9.06E-09
A	G	0.15	-0.2088646	0.03501625	9.06E-09
G	C	0.15	-0.2098689	0.03501331	7.77E-09
T	C	0.01	-0.742766	0.1215732	4.21E-09
C	A	0.12	0.25177	0.0421721	9.10E-09
A	C	0.12	0.2602294	0.04163616	2.06E-09
T	G	0.13	0.2816039	0.0410925	7.38E-11
T	C	0.12	0.249589	0.04142024	6.79E-09
G	C	0.11	0.2680067	0.04316093	2.56E-09
C	A	0.12	0.2541148	0.04193245	5.67E-09
T	A	0.17	0.2301421	0.03700194	2.43E-09
C	A	0.09	0.3579654	0.06007091	8.24E-09
T	A	0.01	0.9749323	0.1630522	6.93E-09
GCAAA	G	0.02	1.061063	0.2078463	6.65E-07
A	T	0.03	0.8252872	0.1687599	1.80E-06
C	T	0.48	-0.2711335	0.0583912	5.48E-06
C	T	0.47	-0.2779421	0.05759544	2.42E-06
C	T	0.48	-0.2901754	0.05803031	1.09E-06
T	G	0.48	-0.2976847	0.05812614	6.15E-07
G	A	0.48	-0.2954471	0.05814242	7.43E-07
G	A	0.47	-0.2841416	0.05814659	1.84E-06
C	G	0.48	-0.2999491	0.05800642	4.86E-07
G	A	0.49	-0.2817692	0.05857512	2.60E-06
G	A	0.38	0.2841439	0.06178431	6.66E-06
CA	C	0.02	0.9642507	0.1931352	1.13E-06

G	A	0.02	0.9602738	0.2087085	6.60E-06
C	T	0.02	0.9602738	0.2087085	6.60E-06
G	A	0.02	1.125808	0.2395849	4.28E-06
C	G	0.02	1.018258	0.2231396	7.79E-06
A	C	0.03	0.8955012	0.175627	6.84E-07
C	CTGTGTGTGTG	0.01	-1.366065	0.2672016	6.42E-07
C	A	0.01	-1.366065	0.2672016	6.42E-07
C	CCTCTCT	0.02	1.171726	0.2455087	3.08E-06
G	A	0.02	0.9961693	0.2091171	3.21E-06
C	A	0.02	0.9961693	0.2091171	3.21E-06
C	G	0.02	0.9844104	0.202507	2.06E-06
C	T	0.02	0.9844104	0.202507	2.06E-06
G	A	0.45	0.2770741	0.06045526	7.14E-06
C	T	0.03	0.7169495	0.1569877	7.67E-06
C	T	0.14	0.4058062	0.08335508	2.00E-06
CT	C	0.16	0.4250455	0.08674528	1.73E-06
C	T	0.33	0.2750391	0.06103734	9.98E-06
T	TACAC	0.04	0.7425823	0.1560653	3.29E-06
G	A	0.04	0.7425823	0.1560653	3.29E-06
C	G	0.04	0.7425823	0.1560653	3.29E-06
T	C	0.04	0.7425823	0.1560653	3.29E-06
C	A	0.04	0.7425823	0.1560653	3.29E-06
G	A	0.01	1.298312	0.2722684	3.14E-06
C	CAGAGAGAGAG	0.02	1.036368	0.2212077	4.56E-06
A	C	0.28	-0.3148729	0.06715788	4.49E-06
TACACAC	T	0.06	-0.5602226	0.1232042	8.36E-06
C	CT	0.03	-0.8000899	0.1768629	9.25E-06
T	C	0.04	0.6931161	0.1496222	5.75E-06
TTTCCTTCC	T	0.25	0.3221248	0.06606369	1.93E-06
G	C	0.24	-0.2995765	0.06558675	7.64E-06
C	A	0.24	-0.3000823	0.06528413	6.73E-06
A	AT	0.39	0.2808367	0.06132502	7.26E-06
C	T	0.01	1.191782	0.2587953	6.49E-06
G	C	0.01	1.340532	0.2844744	4.04E-06
C	G	0.02	1.080705	0.2082353	4.44E-07
G	A	0.02	1.004629	0.2136165	4.21E-06
T	G	0.02	1.004629	0.2136165	4.21E-06
A	G	0.02	1.004629	0.2136165	4.21E-06
T	C	0.02	1.004629	0.2136165	4.21E-06
A	C	0.02	1.07652	0.2212647	2.02E-06
T	C	0.02	1.004629	0.2136165	4.21E-06
C	T	0.02	1.004629	0.2136165	4.21E-06
A	G	0.02	1.004629	0.2136165	4.21E-06
A	T	0.02	1.07652	0.2212647	2.02E-06
C	G	0.02	1.07652	0.2212647	2.02E-06
TCACA	T	0.12	-0.4576968	0.09111325	9.75E-07
A	G	0.01	1.292383	0.2737504	3.88E-06
T	C	0.04	0.687554	0.1459913	4.09E-06
C	T	0.04	0.6572409	0.1439826	7.74E-06
T	C	0.04	0.6890503	0.1451231	3.44E-06

T	C	0.32	0.3013227	0.0664967	8.95E-06
G	GTAAATAAA	0.03	0.7959955	0.1701816	4.72E-06
C	G	0.02	1.015972	0.2215279	7.05E-06
T	A	0.02	0.8948189	0.1957792	7.55E-06
G	T	0.01	1.178027	0.2358905	1.12E-06
A	G	0.06	0.5990687	0.1255865	3.11E-06
GT	G	0.04	0.6682795	0.1474031	8.86E-06
G	C	0.01	1.183096	0.2581072	7.12E-06
C	G	0.01	1.183096	0.2581072	7.12E-06
AATAC	A	0.06	0.5587285	0.1232895	8.93E-06
CGT	C	0.07	0.5628719	0.1180155	3.12E-06
A	G	0.1	0.4572433	0.09790651	4.87E-06
GC	G	0.01	1.199552	0.263813	8.36E-06
A	G	0.43	0.2716967	0.05951469	7.72E-06
C	T	0.42	0.2753537	0.05979121	6.48E-06
C	CGTGT	0.17	0.3832509	0.08474574	9.30E-06
G	C	0.04	0.6937415	0.150229	6.13E-06
C	A	0.01	1.23582	0.2477438	1.15E-06
AT	A	0.03	0.7065488	0.1543714	7.34E-06
A	AT	0.02	0.943624	0.2076451	8.46E-06
C	T	0.02	1.238527	0.2486202	1.18E-06
A	C	0.02	1.238527	0.2486202	1.18E-06
C	T	0.02	1.038738	0.2291813	8.91E-06
T	A	0.01	0.8431696	0.1396129	6.17E-09
T	C	0.01	0.8994691	0.1443386	2.21E-09
T	A	0.02	0.6456232	0.1083399	9.45E-09
T	A	0.02	0.6347501	0.09963475	1.05E-09
T	A	0.02	1.173933	0.1924299	4.46E-09
A	C	0.02	-0.8128736	0.1317967	2.84E-09
GC	G	0.01	-0.7238526	0.1131511	7.46E-10
G	A	0.01	-0.6812176	0.1077915	1.15E-09
C	A	0.01	-0.7238526	0.1131511	7.46E-10
A	G	0.02	0.665223	0.1070556	2.04E-09
T	A	0.01	0.8925902	0.1381589	5.20E-10
TA	T	0.03	0.5566631	0.09329467	7.78E-09
G	GACAC	0.1	0.2106274	0.03378772	1.85E-09
G	A	0.01	-1.197346	0.2643596	8.45E-06
CTG	C	0.43	-0.2581824	0.05745673	9.88E-06
A	G	0.02	-0.9383115	0.2089225	9.98E-06
A	ATG	0.02	1.010064	0.2214967	7.37E-06
C	T	0.35	-0.2500338	0.05565582	9.92E-06
C	T	0.01	1.029135	0.2221124	5.32E-06
T	C	0.01	1.029135	0.2221124	5.32E-06
G	A	0.02	0.9898529	0.2136196	5.31E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06
G	A	0.01	1.004855	0.222943	9.30E-06
A	C	0.02	0.9898529	0.2136196	5.31E-06
A	C	0.02	0.9898529	0.2136196	5.31E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06

G	C	0.02	0.9898529	0.2136196	5.31E-06
C	T	0.02	0.9898529	0.2136196	5.31E-06
C	T	0.02	0.9898529	0.2136196	5.31E-06
C	T	0.02	0.9898529	0.2136196	5.31E-06
C	T	0.02	0.9898529	0.2136196	5.31E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06
C	A	0.02	1.020942	0.2183992	4.42E-06
T	C	0.02	1.0119	0.2184066	5.33E-06
A	G	0.02	0.9898529	0.2136196	5.31E-06
T	C	0.02	0.9898529	0.2136196	5.31E-06
A	AT	0.02	0.9729459	0.2127971	6.99E-06
G	A	0.01	1.029135	0.2221124	5.32E-06
A	C	0.02	0.9898529	0.2136196	5.31E-06
C	T	0.02	0.9898529	0.2136196	5.31E-06
G	A	0.49	-0.24108	0.05312133	8.12E-06
C	T	0.02	-0.9859384	0.2136508	5.78E-06
\AGGAAGGAAGGAAC	A	0.24	0.2923513	0.05999403	1.78E-06
G	A	0.15	-0.3552106	0.07453401	2.92E-06
C	T	0.15	-0.3460788	0.07369299	4.01E-06
C	G	0.15	-0.3395818	0.07389255	6.30E-06
T	C	0.14	-0.3377219	0.07495704	9.37E-06
G	T	0.14	-0.3484555	0.07594889	6.51E-06
G	A	0.14	-0.3551861	0.07588456	4.30E-06
G	A	0.14	-0.341753	0.07599477	9.73E-06
CA	C	0.05	-0.6265631	0.1281301	1.65E-06
T	G	0.4	-0.249277	0.05272569	3.48E-06
G	T	0.01	-1.229096	0.2615483	3.96E-06
C	T	0.01	-1.119781	0.2473568	8.53E-06
A	T	0.02	-0.9781382	0.1882858	3.85E-07
C	T	0.02	-0.9781382	0.1882858	3.85E-07
A	AT	0.41	0.2654852	0.05282368	8.70E-07
G	T	0.06	-0.4994998	0.1055393	3.40E-06
C	G	0.06	-0.5446439	0.1132478	2.40E-06
C	T	0.04	-0.5784717	0.1164974	1.16E-06
T	TTGTGTGTG	0.05	-0.589712	0.126707	4.85E-06
G	T	0.14	-0.3406161	0.07535252	8.78E-06
T	C	0.14	-0.350763	0.07475151	4.08E-06
C	A	0.14	-0.3406161	0.07535252	8.78E-06
C	T	0.14	-0.3581407	0.07546924	3.21E-06
T	G	0.14	-0.3493147	0.07453425	4.19E-06
T	C	0.14	-0.3419999	0.0747046	6.81E-06
C	T	0.14	-0.3419999	0.0747046	6.81E-06
G	C	0.14	-0.3357062	0.07458301	9.56E-06
A	C	0.14	-0.3430762	0.0744212	5.91E-06
A	G	0.14	-0.3430762	0.0744212	5.91E-06
T	A	0.14	-0.3450301	0.0751436	6.41E-06
T	C	0.14	-0.3379756	0.07463464	8.48E-06
A	G	0.14	-0.3450301	0.0751436	6.41E-06
C	T	0.24	0.2864348	0.0610659	4.11E-06

C	T	0.28	-0.2756248	0.05753745	2.61E-06
A	G	0.17	-0.3266809	0.07132402	6.74E-06
G	A	0.22	0.2864871	0.06289157	7.53E-06
TTTTTTTTTC	T	0.16	-0.3322666	0.07040611	3.61E-06
GCACACA	G	0.23	-0.3199551	0.06807151	3.94E-06
C	A	0.01	-1.216124	0.2654546	6.71E-06
C	G	0.03	-0.7742903	0.1462905	2.39E-07
C	T	0.01	-1.280131	0.2603249	1.45E-06
A	G	0.01	-1.280131	0.2603249	1.45E-06
G	C	0.01	-1.293753	0.2515551	4.96E-07
G	A	0.05	-0.5822426	0.1289859	9.03E-06
T	A	0.05	-0.5520336	0.1217375	8.25E-06
C	T	0.04	-0.5979484	0.1306207	6.82E-06
C	A	0.49	-0.2417788	0.05312862	7.68E-06
G	A	0.49	-0.2523984	0.05296366	2.93E-06
T	C	0.49	-0.2401036	0.05304719	8.56E-06
C	T	0.13	-0.3620299	0.07838804	5.69E-06
G	A	0.13	-0.3568397	0.07837627	7.61E-06
T	C	0.03	-0.8027951	0.1726623	4.95E-06
C	A	0.05	0.5857	0.1279645	6.84E-06
T	C	0.07	-0.4926029	0.1084868	8.03E-06
C	G	0.07	-0.4926029	0.1084868	8.03E-06
G	A	0.07	-0.4926029	0.1084868	8.03E-06
T	G	0.1	-0.4095695	0.09060438	8.78E-06
A	G	0.1	-0.4038537	0.08816171	6.72E-06
G	A	0.09	-0.4477907	0.09326729	2.49E-06
A	G	0.09	-0.4323376	0.09205556	4.01E-06
T	A	0.09	-0.4323376	0.09205556	4.01E-06
G	A	0.12	-0.367775	0.08139607	8.86E-06
C	T	0.09	-0.4369212	0.09663072	8.74E-06
G	A	0.02	1.225927	0.2034542	6.65E-09
C	A	0.02	1.225927	0.2034542	6.65E-09
G	A	0.02	-0.8958426	0.1979806	9.21E-06
T	C	0.02	-0.919255	0.1868119	1.57E-06
A	C	0.02	-1.21083	0.2371637	6.64E-07
A	ATG	0.02	-0.9501825	0.2093386	8.66E-06
A	G	0.02	-0.9594853	0.1980567	2.23E-06
T	C	0.44	0.2676556	0.05743523	5.09E-06
G	A	0.02	-1.082418	0.2335175	5.68E-06
G	A	0.36	0.2851352	0.06270431	8.36E-06
C	T	0.34	0.2891799	0.06289587	6.70E-06
CT	C	0.35	0.260751	0.0562854	5.75E-06
A	T	0.01	-1.391141	0.2844001	1.80E-06
TTA	T	0.01	-1.345705	0.2687078	1.05E-06
A	G	0.01	-1.310784	0.2787878	4.23E-06
A	G	0.01	-1.294607	0.2680723	2.39E-06
C	CTTAT	0.46	-0.3171918	0.06111831	4.45E-07
T	C	0.02	-0.9697914	0.209226	5.69E-06
G	C	0.02	-1.041922	0.2298782	8.91E-06
A	G	0.01	-1.314818	0.2897517	8.71E-06

G	T	0.05	-0.5765234	0.126376	7.84E-06
A	T	0.05	-0.5765234	0.126376	7.84E-06
G	T	0.02	-1.174226	0.2374259	1.40E-06
C	G	0.02	-0.964261	0.2100893	6.94E-06
G	T	0.02	-0.97715	0.2052921	3.27E-06
A	G	0.02	-0.97715	0.2052921	3.27E-06
T	C	0.02	-0.97715	0.2052921	3.27E-06
A	G	0.03	-0.8170251	0.1578554	4.76E-07
T	C	0.02	-0.97715	0.2052921	3.27E-06
T	C	0.02	-0.97715	0.2052921	3.27E-06
A	T	0.02	-1.080529	0.2326301	5.45E-06
A	C	0.14	0.381474	0.08385658	8.29E-06
C	G	0.2	0.3269136	0.07179623	8.14E-06
C	T	0.2	0.3400189	0.07313922	5.35E-06
C	T	0.2	0.3400189	0.07313922	5.35E-06
C	T	0.2	0.3400189	0.07313922	5.35E-06
A	T	0.2	0.3400189	0.07313922	5.35E-06
T	G	0.05	-0.6572607	0.1363251	2.47E-06
G	A	0.04	-0.6348345	0.1389847	7.65E-06
C	T	0.05	-0.6177016	0.1351244	7.52E-06
T	A	0.02	-1.080431	0.2262965	3.06E-06
G	GA	0.02	-0.966624	0.2144357	9.92E-06
A	G	0.02	-0.966624	0.2144357	9.92E-06
C	T	0.02	-0.966624	0.2144357	9.92E-06
C	G	0.02	-0.966624	0.2144357	9.92E-06
G	A	0.02	-0.966624	0.2144357	9.92E-06
T	G	0.02	-0.966624	0.2144357	9.92E-06
T	C	0.02	-0.966624	0.2144357	9.92E-06
G	C	0.02	-0.966624	0.2144357	9.92E-06
G	A	0.02	-0.966624	0.2144357	9.92E-06
A	G	0.02	-0.966624	0.2144357	9.92E-06
T	C	0.02	-1.035286	0.2087489	1.31E-06
T	C	0.01	-1.308511	0.269011	2.04E-06
T	C	0.01	-1.190399	0.2543299	4.65E-06
C	A	0.01	-1.190399	0.2543299	4.65E-06
T	C	0.01	-1.190399	0.2543299	4.65E-06
A	G	0.02	-1.030825	0.2182532	3.85E-06
T	G	0.01	-1.21491	0.2624087	5.82E-06
G	A	0.01	-1.21491	0.2624087	5.82E-06
C	T	0.01	-1.21491	0.2624087	5.82E-06
A	G	0.02	-1.300785	0.2525925	5.38E-07
G	A	0.01	-1.21491	0.2624087	5.82E-06
C	CA	0.33	-0.2950868	0.06481518	8.16E-06
T	C	0.01	-1.187716	0.2625701	9.27E-06
T	C	0.01	-1.281321	0.2834484	9.39E-06
A	AT	0.02	-1.292802	0.229506	5.04E-08
C	A	0.01	-1.079209	0.2331048	5.83E-06
GTA	G	0.02	-0.8380763	0.1857983	9.79E-06
CA	C	0.01	-1.188253	0.2631156	9.57E-06
GA	G	0.27	-0.2839056	0.06300511	9.99E-06

C	G	0.03	-0.7882262	0.1655954	3.26E-06
GCGCGCGCACACACA	G	0.01	-1.535385	0.2788941	9.56E-08
C	T	0.03	-0.8117235	0.1617767	1.00E-06
C	G	0.03	-0.741464	0.1621159	7.45E-06
G	C	0.1	-0.4291518	0.09507029	9.65E-06
C	CT	0.01	-1.250509	0.2768701	9.55E-06
T	TTTTCTTTCTTTC	0.01	-1.261282	0.2490876	8.09E-07
A	G	0.02	-1.115835	0.243079	6.92E-06
G	C	0.02	-1.115835	0.243079	6.92E-06
C	G	0.02	-1.115835	0.243079	6.92E-06
C	G	0.02	-1.115835	0.243079	6.92E-06
A	G	0.02	-1.115835	0.243079	6.92E-06
A	G	0.02	-1.066251	0.2363147	9.74E-06
T	C	0.02	-1.066251	0.2363147	9.74E-06
T	A	0.02	-1.092866	0.2255474	2.22E-06
A	G	0.02	-1.092866	0.2255474	2.22E-06
A	G	0.02	-1.092866	0.2255474	2.22E-06
G	C	0.02	-1.092866	0.2255474	2.22E-06
C	G	0.02	-1.092866	0.2255474	2.22E-06
C	T	0.02	-1.092866	0.2255474	2.22E-06
C	G	0.02	-1.092866	0.2255474	2.22E-06
T	C	0.02	-1.092866	0.2255474	2.22E-06
A	T	0.02	-1.092866	0.2255474	2.22E-06
C	CA	0.01	-1.256735	0.2457125	6.36E-07
T	G	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
G	T	0.02	-1.092866	0.2255474	2.22E-06
C	A	0.02	-1.092866	0.2255474	2.22E-06
GTT	G	0.02	-1.092866	0.2255474	2.22E-06
C	G	0.02	-1.092866	0.2255474	2.22E-06
CTCCA	C	0.02	-1.092866	0.2255474	2.22E-06
G	T	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
C	G	0.02	-1.092866	0.2255474	2.22E-06
A	G	0.02	-1.092866	0.2255474	2.22E-06
C	T	0.02	-1.092866	0.2255474	2.22E-06
A	C	0.02	-1.124885	0.2194133	6.00E-07
T	G	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
G	A	0.02	-1.092866	0.2255474	2.22E-06
TAAATAAACAAAC	T	0.02	-1.177704	0.2284056	5.22E-07
G	A	0.02	-1.258322	0.2418876	4.19E-07
C	A	0.02	-1.258322	0.2418876	4.19E-07
T	C	0.3	-0.2810675	0.06207479	9.09E-06
C	T	0.02	-0.9927272	0.1944585	6.65E-07
TCA	T	0.41	0.2408001	0.05337247	9.75E-06
A	T	0.05	-0.5955377	0.1304364	7.71E-06
CTG	C	0.02	-0.9239592	0.2025254	7.83E-06

C	G	0.01	-1.550053	0.2824316	1.04E-07
A	G	0.32	0.2694856	0.05924924	8.32E-06
3AAGGAAGGCAGAAA	A	0.03	-0.7280572	0.1615653	9.98E-06
G	A	0.01	-1.220431	0.2637682	5.90E-06
T	G	0.03	-0.7822458	0.1699006	6.52E-06
A	ACT	0.05	-0.6408785	0.133986	2.94E-06
G	T	0.05	-0.6152195	0.1354887	8.60E-06
TC	T	0.02	-1.121597	0.2447079	7.14E-06
C	A	0.01	-1.211034	0.2683855	9.73E-06
C	T	0.01	-1.26636	0.276068	7.02E-06
A	G	0.01	-1.26636	0.276068	7.02E-06
G	GA	0.01	-1.254797	0.2671249	4.32E-06
T	G	0.09	-0.4717086	0.1042917	9.29E-06
T	TATCCATCCATCC	0.04	-0.7282847	0.1600022	8.20E-06
G	A	0.02	-1.065332	0.236275	9.87E-06
C	T	0.02	-1.065332	0.236275	9.87E-06
A	G	0.2	0.3319827	0.07355579	9.68E-06
T	C	0.23	0.3327154	0.07027785	3.66E-06
G	C	0.2	0.3411975	0.07360931	5.69E-06
G	A	0.19	0.3729959	0.07570741	1.53E-06
C	T	0.02	-0.9467775	0.202055	4.55E-06
A	T	0.03	-0.806521	0.1710327	3.98E-06
C	CA	0.03	-0.806521	0.1710327	3.98E-06
G	A	0.02	-0.9200129	0.1888851	1.98E-06
G	A	0.03	-0.806521	0.1710327	3.98E-06
G	A	0.03	-0.8826094	0.1732674	7.01E-07
C	T	0.03	-0.8826094	0.1732674	7.01E-07
G	A	0.03	-0.8657823	0.1759348	1.57E-06
C	A	0.03	-0.806521	0.1710327	3.98E-06
G	A	0.03	-0.8336284	0.1710385	1.95E-06
A	C	0.03	-0.768201	0.1677174	7.24E-06
G	C	0.03	-0.768201	0.1677174	7.24E-06
T	G	0.03	-0.768201	0.1677174	7.24E-06
G	A	0.03	-0.768201	0.1677174	7.24E-06
C	A	0.03	-0.768201	0.1677174	7.24E-06
G	A	0.03	-0.9357089	0.1795461	4.01E-07
G	A	0.03	-0.768201	0.1677174	7.24E-06
G	A	0.03	-0.768201	0.1677174	7.24E-06
G	A	0.03	-0.768201	0.1677174	7.24E-06
G	T	0.03	-0.768201	0.1677174	7.24E-06
C	A	0.03	-0.768201	0.1677174	7.24E-06
T	C	0.03	-0.7862549	0.1654467	3.38E-06
A	G	0.03	-0.768201	0.1677174	7.24E-06
T	C	0.03	-0.768201	0.1677174	7.24E-06
A	G	0.03	-0.7862549	0.1654467	3.38E-06
A	G	0.03	-0.768201	0.1677174	7.24E-06
C	CGT	0.02	-0.8940112	0.1908319	4.57E-06
G	T	0.03	-0.768201	0.1677174	7.24E-06
T	C	0.03	-0.7159152	0.1578831	8.84E-06
C	T	0.03	-0.8667424	0.1843117	4.22E-06

C	T	0.03	-0.8667424	0.1843117	4.22E-06
CAT	C	0.03	-0.768201	0.1677174	7.24E-06
C	T	0.03	-0.8967588	0.1860059	2.48E-06
G	A	0.03	-0.768201	0.1677174	7.24E-06
C	T	0.03	-0.768201	0.1677174	7.24E-06
A	T	0.03	-0.7971247	0.165241	2.44E-06
G	A	0.03	-0.7971247	0.165241	2.44E-06
C	G	0.03	-0.7971247	0.165241	2.44E-06
G	T	0.03	-0.7971247	0.165241	2.44E-06
T	C	0.03	-0.7425465	0.1634986	8.57E-06
G	A	0.03	-0.7971247	0.165241	2.44E-06
A	T	0.03	-0.7971247	0.165241	2.44E-06
G	A	0.03	-0.7971247	0.165241	2.44E-06
T	G	0.03	-0.7971247	0.165241	2.44E-06
C	T	0.03	-0.7439755	0.1627224	7.50E-06
C	G	0.03	-0.7439755	0.1627224	7.50E-06
T	A	0.04	-0.7339683	0.1533914	2.92E-06
G	A	0.03	-0.7439755	0.1627224	7.50E-06
T	C	0.03	-0.7439755	0.1627224	7.50E-06
A	G	0.03	-0.7439755	0.1627224	7.50E-06
G	A	0.03	-0.7439755	0.1627224	7.50E-06
G	A	0.03	-0.7439755	0.1627224	7.50E-06
C	G	0.26	-0.300854	0.06582038	7.54E-06
T	G	0.27	-0.3293618	0.06362021	4.73E-07
T	A	0.27	-0.3293618	0.06362021	4.73E-07
A	T	0.27	-0.3273356	0.06367181	5.61E-07
G	A	0.26	-0.3417409	0.0639267	2.10E-07
C	T	0.27	-0.3210081	0.06346791	8.31E-07
C	T	0.02	-1.088309	0.2327014	4.73E-06
G	A	0.08	-0.5161342	0.1111604	5.49E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
A	T	0.02	-1.072171	0.2376025	9.72E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
A	G	0.02	-1.072171	0.2376025	9.72E-06
G	C	0.1	-0.4450202	0.09518797	4.77E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
A	G	0.02	-1.072171	0.2376025	9.72E-06
T	TCTC	0.02	-0.9457366	0.1872121	8.55E-07
G	C	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
CA	C	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
C	A	0.02	-1.072171	0.2376025	9.72E-06
T	A	0.1	-0.4487659	0.09264211	2.23E-06
T	C	0.02	-1.072171	0.2376025	9.72E-06

A	T	0.02	-1.072171	0.2376025	9.72E-06
A	G	0.02	-1.072171	0.2376025	9.72E-06
ACACACACACACAC	G	0.02	-1.138269	0.2440575	5.01E-06
AG	A	0.02	-1.072171	0.2376025	9.72E-06
G	T	0.02	-1.072171	0.2376025	9.72E-06
T	A	0.02	-1.072171	0.2376025	9.72E-06
TA	T	0.02	-1.072171	0.2376025	9.72E-06
C	A	0.02	-1.072171	0.2376025	9.72E-06
A	G	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.1	-0.4453634	0.09595442	5.53E-06
G	T	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
T	C	0.02	-1.072171	0.2376025	9.72E-06
C	A	0.02	-1.072171	0.2376025	9.72E-06
C	A	0.02	-1.072171	0.2376025	9.72E-06
A	G	0.02	-1.072171	0.2376025	9.72E-06
AAAAT	A	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
CTT	C	0.02	-1.072171	0.2376025	9.72E-06
AATAATT	A	0.02	-1.104603	0.2274586	2.11E-06
G	A	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
G	GT	0.02	-1.138269	0.2440575	5.01E-06
AC	A	0.01	-1.411311	0.2911931	2.21E-06
A	C	0.02	-1.072171	0.2376025	9.72E-06
T	C	0.02	-1.072171	0.2376025	9.72E-06
C	A	0.02	-1.072171	0.2376025	9.72E-06
GT	G	0.02	-1.072171	0.2376025	9.72E-06
C	T	0.02	-1.072171	0.2376025	9.72E-06
T	C	0.2	-0.3269305	0.07205124	8.72E-06
A	G	0.02	-1.125849	0.229277	1.65E-06
A	AGATAGACAGATAGA	0.02	-1.008769	0.2197009	6.89E-06
G	A	0.06	-0.5483252	0.1204171	8.13E-06
G	A	0.01	-1.266864	0.2787541	8.45E-06
G	GC	0.01	-1.280133	0.2782537	6.62E-06
T	C	0.01	-1.280133	0.2782537	6.62E-06
A	G	0.01	-1.280133	0.2782537	6.62E-06
G	A	0.01	-1.280133	0.2782537	6.62E-06
C	G	0.01	-1.280133	0.2782537	6.62E-06
C	T	0.01	-1.280133	0.2782537	6.62E-06
G	A	0.13	-0.4041265	0.08889157	8.39E-06
T	C	0.13	-0.4001246	0.08863937	9.65E-06
G	A	0.12	-0.4132877	0.09014266	7.10E-06
G	A	0.13	-0.4041265	0.08889157	8.39E-06
A	G	0.14	-0.4372479	0.08542941	6.25E-07
C	T	0.14	-0.4372479	0.08542941	6.25E-07
G	A	0.14	-0.4372479	0.08542941	6.25E-07
TCA	T	0.16	-0.3811706	0.08196516	5.32E-06
T	C	0.16	-0.4303501	0.08118157	2.60E-07

T	C	0.14	-0.4240714	0.08762499	2.28E-06
C	A	0.14	-0.4297433	0.0877563	1.75E-06
A	G	0.13	-0.4160664	0.08830244	4.05E-06
C	G	0.05	-0.6207068	0.1344988	6.22E-06
T	A	0.02	-1.405963	0.2343195	9.34E-09
T	A	0.02	-1.474043	0.2360415	2.07E-09
T	C	0.02	-1.30545	0.2171307	7.13E-09
A	AT	0.02	-1.470588	0.2422804	5.26E-09
T	G	0.05	-0.5899376	0.09713798	6.72E-09
C	A	0.01	-1.40221	0.22902	4.52E-09
GCGCGCGCACACACA	G	0.01	-1.110484	0.1865812	9.83E-09
T	C	0.02	-0.9605879	0.1586368	7.28E-09
A	AT	0.02	-1.081524	0.1736683	2.27E-09
A	AT	0.02	-1.115085	0.1775801	1.71E-09
G	A	0.12	-0.5233943	0.08194806	1.12E-09
T	C	0.12	-0.5286538	0.08154889	6.70E-10
G	A	0.12	-0.5280606	0.08318717	1.38E-09
G	A	0.12	-0.5233943	0.08194806	1.12E-09
C	T	0.12	-0.5056196	0.0812707	2.71E-09
G	C	0.12	-0.4899344	0.08046017	5.43E-09
C	T	0.12	-0.5061745	0.08065408	2.03E-09
T	C	0.12	-0.5207253	0.0814138	1.07E-09
A	G	0.12	-0.5256741	0.08141149	7.69E-10
A	G	0.12	-0.5194132	0.08142912	1.17E-09
T	C	0.02	-1.250844	0.2010467	2.38E-09
A	AT	0.02	-0.9873544	0.1629281	5.54E-09
GCGCGCGCACACACA	G	0.01	-1.19683	0.1974889	5.53E-09
C	CA	0.01	-1.277475	0.2131461	7.90E-09
C	CTTAT	0.46	-0.2917093	0.04846139	7.48E-09
C	A	0.01	-1.396069	0.2185717	1.14E-09
A	G	0.11	-0.2808195	0.04717243	8.68E-09
T	A	0.01	0.8220031	0.1317649	1.68E-09
A	G	0.02	-0.6757238	0.1108791	3.75E-09
C	T	0.35	-0.2397901	0.03994088	6.12E-09
GGTGTGTGTGTGT	G	0.01	-0.9377774	0.1496359	1.45E-09
A	C	0.04	-0.4033323	0.06658341	5.25E-09
G	A	0.02	0.7114076	0.115267	2.44E-09
A	G	0.03	0.6062086	0.09989375	4.30E-09
T	A	0.01	0.9133047	0.1327299	4.32E-11
C	T	0.03	-0.3307851	0.05451347	5.10E-09
C	CTG	0.02	-0.3514042	0.05728214	3.57E-09
C	T	0.03	-0.9430115	0.175682	1.82E-07
C	T	0.03	-0.8627878	0.1819861	3.48E-06
C	T	0.34	-0.276436	0.05824344	3.40E-06
CT	C	0.02	-0.923074	0.189555	1.94E-06
T	C	0.21	-0.3090356	0.06809625	8.54E-06
T	C	0.21	-0.3143264	0.06809974	6.08E-06
C	G	0.21	-0.3090356	0.06809625	8.54E-06
G	A	0.21	-0.3090356	0.06809625	8.54E-06
G	C	0.21	-0.3090356	0.06809625	8.54E-06

T	C	0.21	-0.3090356	0.06809625	8.54E-06
C	T	0.21	-0.3090356	0.06809625	8.54E-06
C	T	0.21	-0.3090356	0.06809625	8.54E-06
G	T	0.21	-0.3176291	0.06851811	5.56E-06
G	C	0.21	-0.3090356	0.06809625	8.54E-06
C	T	0.21	-0.3090356	0.06809625	8.54E-06
A	T	0.21	-0.3090356	0.06809625	8.54E-06
T	C	0.21	-0.3090356	0.06809625	8.54E-06
G	A	0.21	-0.3090356	0.06809625	8.54E-06
T	G	0.21	-0.3090356	0.06809625	8.54E-06
A	G	0.21	-0.3073059	0.06813621	9.65E-06
G	A	0.09	-0.4615798	0.1016215	8.39E-06
A	G	0.01	-1.477986	0.292655	8.37E-07
TTGTGTG	T	0.02	-0.8431054	0.181446	5.30E-06
G	A	0.01	-1.132642	0.2419755	4.55E-06
T	C	0.01	-1.108386	0.2422688	7.27E-06
G	A	0.01	-1.108386	0.2422688	7.27E-06
C	T	0.01	-1.108386	0.2422688	7.27E-06
G	A	0.01	-1.232264	0.2602967	3.59E-06
C	T	0.01	-1.108386	0.2422688	7.27E-06
G	A	0.01	-1.289795	0.2694255	2.82E-06
TCA	T	0.06	0.5542652	0.120608	6.64E-06
G	GTGTTT	0.01	-1.233083	0.2516615	1.69E-06
T	C	0.01	-1.172302	0.2400697	1.82E-06
G	A	0.01	-1.38702	0.2739029	7.85E-07
A	C	0.01	-1.224905	0.2651743	5.98E-06
GA	G	0.02	-1.089379	0.2348655	5.50E-06
GC	G	0.02	-1.089379	0.2348655	5.50E-06
C	T	0.02	-1.089379	0.2348655	5.50E-06
G	T	0.02	-1.089379	0.2348655	5.50E-06
C	CT	0.01	-1.171517	0.2596361	9.56E-06
G	A	0.44	-0.271094	0.05669259	2.89E-06
C	T	0.44	-0.2663359	0.05667492	4.19E-06
C	T	0.45	-0.2720274	0.05472147	1.21E-06
ATG	A	0.22	0.3447267	0.07250841	3.28E-06
AGAGAGAGACAGAG/	C	0.02	-0.8783767	0.1893059	5.46E-06
C	T	0.01	-1.284502	0.2830603	8.55E-06
T	G	0.33	-0.2796842	0.06026618	5.44E-06
G	C	0.21	-0.3123626	0.06922403	9.56E-06
G	C	0.2	-0.3368275	0.07049416	2.94E-06
A	C	0.2	-0.3227559	0.07140873	9.25E-06
T	TA	0.21	-0.3254614	0.06909246	3.99E-06
G	A	0.21	-0.3168199	0.06916487	7.09E-06
A	G	0.21	-0.32076	0.06912424	5.45E-06
T	G	0.2	-0.3108697	0.06871636	9.09E-06
T	G	0.2	-0.3160425	0.06928755	7.72E-06
T	C	0.21	-0.3185198	0.06922672	6.48E-06
C	CCTT	0.21	-0.3091133	0.06841701	9.32E-06
T	C	0.35	0.2658872	0.05802277	7.04E-06
A	T	0.32	0.277089	0.05881698	3.98E-06

C	T	0.34	0.2665257	0.05827115	7.31E-06
A	C	0.34	0.2767354	0.05875588	4.00E-06
T	TACAC	0.15	-0.415806	0.08720749	3.08E-06
G	A	0.01	-1.312714	0.2755084	3.13E-06
A	T	0.01	1.292861	0.2665093	2.11E-06
C	T	0.02	-0.9177978	0.1964502	4.74E-06
C	T	0.03	-0.8449906	0.1804307	4.51E-06
G	A	0.03	-0.9241135	0.191788	2.45E-06
T	C	0.03	-0.9294	0.1877523	1.34E-06
G	A	0.01	-1.219691	0.2569634	3.39E-06
G	C	0.01	-1.174102	0.2558731	6.85E-06
A	G	0.01	-1.174102	0.2558731	6.85E-06
G	A	0.01	-1.174102	0.2558731	6.85E-06
C	T	0.01	-1.29872	0.2785232	4.93E-06
G	GCTGCACCCTCTGGC/	0.02	-0.9907688	0.2119459	4.68E-06
G	A	0.11	-0.4078236	0.09016073	9.11E-06
T	TACACACAC	0.21	-0.3420035	0.07044147	2.07E-06
G	C	0.5	0.2616703	0.05773981	8.78E-06
A	AG	0.05	-0.6650275	0.1402295	3.46E-06
G	C	0.06	-0.6014687	0.1187735	7.85E-07
G	GT	0.04	-0.6590773	0.1426555	5.96E-06
G	T	0.44	-0.2625672	0.05739493	7.28E-06
G	C	0.44	-0.260492	0.05763681	9.26E-06
G	A	0.44	-0.260492	0.05763681	9.26E-06
T	C	0.06	0.5783464	0.1213758	3.12E-06
G	A	0.07	0.5185955	0.1132152	7.09E-06
C	T	0.29	0.2900203	0.06392562	8.59E-06
C	G	0.32	0.2969317	0.06325799	4.29E-06
G	T	0.14	-0.38961	0.08557587	8.01E-06
G	A	0.14	-0.38961	0.08557587	8.01E-06
G	A	0.39	-0.3069329	0.05873195	3.62E-07
C	G	0.39	-0.3069329	0.05873195	3.62E-07
G	A	0.22	-0.3225355	0.06977721	5.90E-06
G	T	0.18	-0.3736165	0.07666194	1.90E-06
G	A	0.18	-0.3657359	0.07664744	3.03E-06
C	G	0.24	-0.2992289	0.06634347	9.64E-06
C	T	0.18	-0.3677935	0.07660367	2.65E-06
A	G	0.18	-0.3737325	0.07648476	1.80E-06
G	A	0.17	-0.3530583	0.07830241	9.70E-06
C	T	0.16	-0.3604781	0.07939978	8.47E-06
A	T	0.17	-0.3437343	0.07540955	7.82E-06
C	A	0.19	0.3245269	0.06958949	4.92E-06
C	G	0.2	0.3329111	0.06972518	2.99E-06
C	T	0.29	0.3213205	0.06356866	8.20E-07
T	C	0.24	0.3087621	0.0667145	5.75E-06
G	A	0.03	0.7188238	0.1543418	5.06E-06
G	C	0.03	0.7188238	0.1543418	5.06E-06
T	A	0.15	-0.3772938	0.07821664	2.39E-06
G	T	0.42	0.2613859	0.05799362	9.77E-06
G	A	0.41	0.2663934	0.05842088	7.77E-06

A	G	0.42	0.2684539	0.05828964	6.36E-06
CGTTAT	C	0.21	-0.3242383	0.07049671	6.53E-06
G	A	0.02	-0.9428373	0.1865264	8.20E-07
C	CAA	0.03	-0.8341646	0.1841315	8.84E-06
G	A	0.03	-0.7845962	0.1613811	2.01E-06
C	T	0.02	-0.9072881	0.2003533	8.91E-06
G	A	0.02	-0.9662421	0.2140632	9.49E-06
C	T	0.01	-1.202539	0.2643232	8.13E-06
C	T	0.01	-0.9739017	0.1617111	7.36E-09
TTGTGTG	T	0.03	-0.7774442	0.1279886	5.75E-09
C	T	0.01	-1.309026	0.2056475	1.07E-09
A	T	0.01	0.8524456	0.1395387	4.10E-09
T	TA	0.21	-0.232993	0.03833651	4.79E-09
G	A	0.21	-0.2283185	0.03838442	9.50E-09
T	G	0.2	-0.2327434	0.03840812	5.26E-09
T	C	0.21	-0.2320114	0.03839039	5.74E-09
TTGTGTG	T	0.02	-0.6006713	0.1007214	8.72E-09
G	A	0.12	-0.3150431	0.04921856	1.08E-09
T	G	0.2	-0.3058346	0.05135335	9.16E-09
A	G	0.41	0.2590808	0.04354696	9.45E-09
TTGTGTG	T	0.03	-0.6006161	0.0975303	3.09E-09
C	T	0.43	0.1931713	0.03087118	2.30E-09
G	A	0.43	0.1862986	0.03095852	8.05E-09
TTATCTATC	T	0.01	1.208209	0.2646256	7.56E-06
T	G	0.05	0.5778067	0.1278764	9.29E-06
C	A	0.05	0.5778067	0.1278764	9.29E-06
A	T	0.05	0.5778067	0.1278764	9.29E-06
A	G	0.05	0.5778067	0.1278764	9.29E-06
C	G	0.03	-0.7985499	0.1682933	3.41E-06
T	G	0.41	0.2676197	0.05623166	3.20E-06
G	T	0.4	0.2574669	0.05679221	8.71E-06
C	T	0.4	0.2569581	0.0564147	7.93E-06
G	A	0.4	0.2574669	0.05679221	8.71E-06
G	A	0.4	0.2574669	0.05679221	8.71E-06
T	C	0.41	0.2579243	0.05656494	7.76E-06
TTCC	T	0.41	0.2560007	0.05669028	9.40E-06
AAAC	A	0.39	0.2659742	0.05658041	4.16E-06
G	T	0.4	0.2623821	0.05666558	5.69E-06
G	A	0.39	0.255759	0.05602264	7.58E-06
G	T	0.39	0.2593987	0.05593058	5.50E-06
G	A	0.02	0.8667223	0.1885326	6.59E-06
AATTTT	A	0.1	-0.3996049	0.08518449	4.34E-06
G	ATCTATCTATCTATCT,	0.01	1.194092	0.261014	7.27E-06
A	G	0.21	0.3147376	0.06973979	9.52E-06
T	A	0.04	0.657347	0.1445869	8.23E-06
\AGGAAGGGAGGAAAC	G	0.02	1.017237	0.2244421	8.75E-06
T	A	0.17	0.3575803	0.07735649	5.89E-06
T	C	0.17	0.3488319	0.0764028	7.56E-06
C	T	0.18	0.3462904	0.0760056	7.89E-06
C	T	0.18	0.3569093	0.07630638	4.62E-06

T	G	0.26	0.3011083	0.06394199	4.01E-06
G	T	0.02	1.135998	0.2194122	4.57E-07
C	G	0.02	1.143515	0.2194498	3.89E-07
AACAG	A	0.02	1.143515	0.2194498	3.89E-07
T	C	0.02	1.143515	0.2194498	3.89E-07
C	T	0.02	1.143515	0.2194498	3.89E-07
G	A	0.02	1.143515	0.2194498	3.89E-07
G	A	0.02	1.143515	0.2194498	3.89E-07
T	A	0.02	1.148487	0.2140501	1.83E-07
T	A	0.02	1.121918	0.2380831	3.95E-06
T	C	0.05	0.6417064	0.1298707	1.39E-06
A	AAAAC	0.06	0.5785465	0.1263643	7.15E-06
A	T	0.03	0.8148022	0.1647272	1.36E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
G	C	0.02	0.875866	0.1917988	7.53E-06
GA	G	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
T	C	0.02	0.875866	0.1917988	7.53E-06
C	T	0.02	0.875866	0.1917988	7.53E-06
T	C	0.02	0.875866	0.1917988	7.53E-06
TCTAA	T	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
C	T	0.02	0.875866	0.1917988	7.53E-06
C	A	0.02	0.875866	0.1917988	7.53E-06
G	T	0.02	0.9094959	0.2007159	8.79E-06
C	A	0.02	0.9257307	0.1949899	3.37E-06
C	T	0.02	0.9072555	0.195337	5.34E-06
G	T	0.02	0.875866	0.1917988	7.53E-06
G	GT	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
G	C	0.02	0.875866	0.1917988	7.53E-06
A	G	0.02	0.875866	0.1917988	7.53E-06
GAAAA	G	0.02	0.875866	0.1917988	7.53E-06
C	G	0.02	0.875866	0.1917988	7.53E-06
A	C	0.02	0.9072555	0.195337	5.34E-06
A	G	0.02	0.875866	0.1917988	7.53E-06
A	C	0.02	0.875866	0.1917988	7.53E-06
G	A	0.02	0.875866	0.1917988	7.53E-06
C	T	0.02	0.875866	0.1917988	7.53E-06
A	G	0.03	0.8033859	0.1761366	7.72E-06
A	C	0.03	0.8033859	0.1761366	7.72E-06
A	G	0.02	0.8214135	0.1809345	8.47E-06
C	A	0.03	0.8033859	0.1761366	7.72E-06
C	A	0.02	0.8503649	0.1807304	4.08E-06
TTCTG	T	0.02	0.8503649	0.1807304	4.08E-06
A	G	0.03	0.8033859	0.1761366	7.72E-06
C	G	0.02	0.8503649	0.1807304	4.08E-06
GA	G	0.03	0.8033859	0.1761366	7.72E-06

C	G	0.02	0.8645202	0.1802653	2.71E-06
A	G	0.02	0.8503649	0.1807304	4.08E-06
G	A	0.02	0.8503649	0.1807304	4.08E-06
T	C	0.03	0.8033859	0.1761366	7.72E-06
A	G	0.03	0.8033859	0.1761366	7.72E-06
A	G	0.02	0.8503649	0.1807304	4.08E-06
T	C	0.03	0.8033859	0.1761366	7.72E-06
T	C	0.03	0.8033859	0.1761366	7.72E-06
T	C	0.02	0.8503649	0.1807304	4.08E-06
C	G	0.03	0.8295753	0.1787656	5.44E-06
C	CT	0.03	0.8033859	0.1761366	7.72E-06
T	C	0.03	0.8033859	0.1761366	7.72E-06
C	T	0.02	0.8503649	0.1807304	4.08E-06
C	A	0.16	0.3488375	0.07565095	6.19E-06
G	A	0.18	0.3231382	0.07146186	9.16E-06
CGT	C	0.36	-0.3073003	0.06264638	1.64E-06
C	T	0.03	-0.8648436	0.1751294	1.41E-06
T	C	0.03	-0.8648436	0.1751294	1.41E-06
T	C	0.06	-0.5218959	0.1127652	5.75E-06
C	T	0.07	-0.4816857	0.1048765	6.71E-06
AAAAGAAT	A	0.07	-0.4816857	0.1048765	6.71E-06
T	C	0.04	0.6872008	0.1457839	3.92E-06
A	G	0.48	0.2762245	0.05747563	2.59E-06
C	A	0.03	0.7378629	0.1576871	4.58E-06
A	G	0.47	0.2577036	0.05685798	8.75E-06
C	T	0.25	0.2903494	0.06341892	7.16E-06
G	A	0.26	0.2959906	0.06275382	3.87E-06
G	C	0.26	0.2961486	0.06274819	3.82E-06
CT	C	0.26	0.295225	0.06276541	4.11E-06
T	C	0.26	0.2961486	0.06274819	3.82E-06
T	G	0.02	1.167669	0.2346838	1.19E-06
C	T	0.11	0.4228873	0.08716543	2.10E-06
T	G	0.02	-1.041952	0.2264746	6.48E-06
A	G	0.02	-1.041952	0.2264746	6.48E-06
T	G	0.02	-1.041952	0.2264746	6.48E-06
G	A	0.01	1.219297	0.2545156	2.78E-06
C	G	0.04	0.7060596	0.1530279	6.12E-06
T	C	0.02	0.9512174	0.2069954	6.64E-06
C	T	0.4	-0.2345764	0.05154422	8.07E-06
G	A	0.41	0.2634156	0.05818196	8.94E-06
C	G	0.41	0.2634156	0.05818196	8.94E-06
G	C	0.01	1.227453	0.2715578	9.23E-06
G	A	0.02	0.8522971	0.185955	7.00E-06
T	C	0.02	1.042201	0.2205554	3.73E-06
T	C	0.43	0.2616384	0.05652161	5.72E-06
T	C	0.43	0.2659399	0.05638302	3.87E-06
C	T	0.43	0.2616384	0.05652161	5.72E-06
A	G	0.43	0.2626167	0.05654903	5.36E-06
T	C	0.43	0.2556032	0.05653648	9.19E-06
C	A	0.36	0.2559286	0.05604273	7.53E-06

C	G	0.43	0.2549346	0.05660175	9.90E-06
C	T	0.01	1.179955	0.2523405	4.65E-06
A	G	0.01	1.303383	0.2596727	9.67E-07
G	T	0.01	1.303383	0.2596727	9.67E-07
G	A	0.19	-0.1431329	0.03160861	8.48E-06
GAAAC	G	0.19	-0.1446626	0.03167506	7.15E-06
T	C	0.27	-0.1295404	0.0276181	4.12E-06
A	G	0.27	-0.1366539	0.02751475	1.15E-06
T	C	0.26	-0.133695	0.02804559	2.91E-06
G	A	0.32	-0.1262793	0.02579934	1.61E-06
G	A	0.02	0.4282576	0.08916055	2.46E-06
C	G	0.02	0.4282576	0.08916055	2.46E-06
A	G	0.02	0.4282576	0.08916055	2.46E-06
T	A	0.02	0.4282576	0.08916055	2.46E-06
C	G	0.02	0.4176454	0.09061949	5.94E-06
C	A	0.02	0.4282576	0.08916055	2.46E-06
G	A	0.02	0.4282576	0.08916055	2.46E-06
C	A	0.02	0.4282576	0.08916055	2.46E-06
C	T	0.02	0.3952595	0.0807323	1.60E-06
G	A	0.02	0.3952595	0.0807323	1.60E-06
G	C	0.02	0.4190189	0.08479857	1.30E-06
G	C	0.38	0.1088264	0.0234708	5.24E-06
G	C	0.03	0.3403147	0.07563444	9.62E-06
T	A	0.01	0.5452961	0.1169631	4.68E-06
G	A	0.01	0.5452961	0.1169631	4.68E-06
T	C	0.01	0.5452961	0.1169631	4.68E-06
C	T	0.01	0.5452961	0.1169631	4.68E-06
A	G	0.02	0.3836387	0.08245358	4.88E-06
AT	A	0.02	0.412079	0.08235511	9.66E-07
A	C	0.02	0.412079	0.08235511	9.66E-07
A	G	0.02	0.4363075	0.08337139	3.20E-07
G	A	0.06	0.2584114	0.05602146	5.84E-06
C	.CCTTCCCTCCCTCCTT	0.18	-0.1567717	0.03259646	2.39E-06
A	AGTGTGTGTGTGT	0.05	-0.283154	0.06002976	3.65E-06
TACCTTACC	T	0.16	0.1617895	0.03442413	3.95E-06
T	A	0.16	0.1557191	0.03345478	4.84E-06
G	A	0.26	0.1331705	0.02832495	3.92E-06
C	G	0.28	0.1282853	0.0276995	5.37E-06
C	G	0.42	0.1210924	0.02592315	4.49E-06
A	G	0.42	0.1195791	0.02598682	6.13E-06
C	T	0.42	0.1180049	0.02593542	7.71E-06
A	C	0.42	0.1195791	0.02598682	6.13E-06
C	T	0.42	0.1187474	0.02602043	7.26E-06
G	A	0.43	0.1178442	0.02595513	8.04E-06
G	A	0.43	0.1192742	0.0258827	5.95E-06
C	A	0.43	0.1185127	0.02591738	6.97E-06
C	T	0.28	0.1260663	0.0277161	7.76E-06
CTCTT	C	0.27	0.1375407	0.02798666	1.47E-06
G	T	0.27	0.1373958	0.02791167	1.42E-06
G	T	0.26	0.1327485	0.02849588	4.75E-06

T	A	0.27	0.1352836	0.02793964	2.06E-06
C	A	0.27	0.1317305	0.02786791	3.49E-06
G	A	0.27	0.1342466	0.02802121	2.61E-06
C	A	0.27	0.1316501	0.0279238	3.69E-06
CTCTCTATCCCTGTCTT	G	0.12	-0.1877442	0.03938468	2.91E-06
T	C	0.06	0.242646	0.0529981	6.80E-06
C	T	0.06	0.243017	0.05348727	7.93E-06
C	CTTTTAT	0.06	0.2528067	0.05528923	6.98E-06
C	T	0.11	-0.1873228	0.04089428	6.73E-06
G	A	0.06	0.241994	0.0532457	7.88E-06
C	T	0.06	0.2424965	0.05115442	3.28E-06
C	T	0.45	-0.123307	0.0260067	3.27E-06
G	A	0.06	0.2386725	0.0525135	7.88E-06
T	TAAATA	0.05	0.2472897	0.05497055	9.66E-06
T	C	0.01	0.5052248	0.1119498	9.07E-06
G	A	0.02	0.4852007	0.1042915	4.89E-06
G	C	0.02	0.4852007	0.1042915	4.89E-06
G	T	0.02	0.4852007	0.1042915	4.89E-06
C	T	0.02	0.3904354	0.08287119	3.75E-06
A	G	0.01	0.585411	0.1249896	4.25E-06
CTGTGTGTG	C	0.11	-0.1988149	0.0429523	5.43E-06
T	TGCCCATCCCTCCATC	0.5	-0.1162825	0.02559464	7.94E-06
A	T	0.09	0.2063191	0.0443461	4.89E-06
C	G	0.02	0.4760454	0.1037981	6.56E-06
A	G	0.09	0.2044372	0.04519852	8.68E-06
C	T	0.08	0.2078932	0.0453355	6.58E-06
G	A	0.08	0.2130093	0.04666086	7.21E-06
C	A	0.09	0.2037477	0.04491357	8.18E-06
T	A	0.08	0.2272847	0.04673143	1.86E-06
A	C	0.09	0.2092897	0.04503827	5.01E-06
C	A	0.02	0.3848711	0.08163767	3.69E-06
G	A	0.06	0.2552065	0.0535983	2.98E-06
C	A	0.03	-0.2764826	0.05846773	3.46E-06
A	G	0.3	-0.1021604	0.02222436	6.27E-06
G	T	0.02	-0.3612552	0.07191469	8.80E-07
T	C	0.02	-0.3788199	0.07280158	3.70E-07
A	G	0.02	-0.359097	0.07631243	3.84E-06
C	T	0.01	-0.4693734	0.09567962	1.53E-06
A	G	0.02	-0.3848397	0.0805372	2.76E-06
C	T	0.02	-0.3848397	0.0805372	2.76E-06
T	C	0.02	-0.3848397	0.0805372	2.76E-06
C	A	0.26	-0.109119	0.02395632	7.54E-06
C	G	0.26	-0.109119	0.02395632	7.54E-06
T	C	0.26	-0.1077474	0.02388635	9.16E-06
C	T	0.01	-0.4627321	0.09847794	3.96E-06
A	T	0.01	-0.4548133	0.09902465	6.37E-06
G	A	0.01	-0.4427376	0.0936845	3.51E-06
T	C	0.01	-0.4560656	0.1013418	9.59E-06
C	T	0.01	-0.4400247	0.09550811	5.98E-06
A	G	0.01	-0.4400247	0.09550811	5.98E-06

T	C	0.02	-0.3509588	0.07724368	7.93E-06
G	A	0.01	-0.4748843	0.105012	8.71E-06
T	C	0.02	-0.3323781	0.07130832	4.70E-06
C	T	0.02	-0.3698074	0.07588585	1.78E-06
C	T	0.03	-0.2861479	0.06248247	6.76E-06
T	C	0.03	-0.2955383	0.06441613	6.52E-06
G	A	0.01	-0.4963691	0.1055775	3.92E-06
T	C	0.01	-0.4455859	0.09876432	9.13E-06
T	C	0.01	-0.4780912	0.1047496	7.24E-06
C	T	0.01	-0.4567992	0.09915115	5.98E-06
G	A	0.01	-0.4567992	0.09915115	5.98E-06
C	A	0.01	-0.4567992	0.09915115	5.98E-06
TTGTCACCTTTCTACCC	T	0.02	-0.3643833	0.0775094	3.92E-06
C	T	0.05	-0.2222045	0.04862951	7.08E-06
A	G	0.02	-0.4104746	0.08440504	1.87E-06
TTGTG	T	0.03	-0.2901597	0.06365503	7.43E-06
A	ATGTGTGTGTG	0.01	-0.4512666	0.09850627	6.72E-06
T	C	0.03	-0.3049504	0.06708546	7.86E-06
G	T	0.03	-0.3067678	0.06706809	6.93E-06
CTA	C	0.02	-0.307704	0.06799644	8.59E-06
C	T	0.01	-0.4959801	0.1063286	4.63E-06
T	C	0.24	-0.1140459	0.024411	4.48E-06
G	T	0.02	-0.4083396	0.0882325	5.45E-06
A	C	0.01	-0.4508379	0.09935274	8.14E-06
TG	T	0.01	-0.445457	0.0923248	2.23E-06
G	A	0.04	-0.2518346	0.05491116	6.57E-06
A	C	0.03	-0.2803869	0.06160114	7.65E-06
G	C	0.03	-0.2803869	0.06160114	7.65E-06
T	C	0.03	-0.2803869	0.06160114	7.65E-06
T	C	0.03	-0.2803869	0.06160114	7.65E-06
A	T	0.03	-0.2803869	0.06160114	7.65E-06
T	C	0.03	-0.2803869	0.06160114	7.65E-06
T	A	0.03	-0.2803869	0.06160114	7.65E-06
A	G	0.03	-0.2803869	0.06160114	7.65E-06
A	G	0.03	-0.2803869	0.06160114	7.65E-06
C	T	0.03	-0.2803869	0.06160114	7.65E-06
G	A	0.03	-0.2803869	0.06160114	7.65E-06
A	G	0.03	-0.2803869	0.06160114	7.65E-06
T	C	0.03	-0.2803869	0.06160114	7.65E-06
C	T	0.03	-0.2803869	0.06160114	7.65E-06
G	C	0.01	-0.4249589	0.08895487	2.77E-06
C	T	0.06	-0.2074909	0.0459452	8.95E-06
C	CACAGAGAG	0.01	-0.4717537	0.09840143	2.57E-06
G	A	0.26	-0.1207556	0.02471272	1.68E-06
C	T	0.2	-0.1327971	0.02678397	1.20E-06
CAG	C	0.2	-0.1260796	0.02715973	5.12E-06
C	T	0.2	-0.1327971	0.02678397	1.20E-06
G	A	0.2	-0.1327971	0.02678397	1.20E-06
G	A	0.2	-0.1315541	0.02678569	1.49E-06
A	G	0.2	-0.1282396	0.02680923	2.70E-06

A	C	0.2	-0.1315541	0.02678569	1.49E-06
T	C	0.2	-0.1315541	0.02678569	1.49E-06
G	C	0.2	-0.1324901	0.02678844	1.27E-06
G	C	0.2	-0.1325504	0.02678484	1.25E-06
T	C	0.2	-0.1315541	0.02678569	1.49E-06
A	T	0.2	-0.1281428	0.02681702	2.76E-06
G	A	0.2	-0.1315541	0.02678569	1.49E-06
A	G	0.21	-0.1307563	0.02686672	1.84E-06
A	G	0.24	-0.1283466	0.02487144	4.56E-07
C	T	0.19	-0.1380359	0.02697839	5.64E-07
C	T	0.24	-0.1202628	0.02477206	1.94E-06
A	T	0.24	-0.1202628	0.02477206	1.94E-06
T	G	0.24	-0.1209882	0.0247769	1.70E-06
C	G	0.24	-0.1202628	0.02477206	1.94E-06
G	A	0.24	-0.1202628	0.02477206	1.94E-06
C	T	0.24	-0.1211343	0.02476674	1.64E-06
T	C	0.24	-0.1170197	0.02478909	3.59E-06
T	C	0.24	-0.1202628	0.02477206	1.94E-06
C	T	0.24	-0.1220613	0.02484442	1.48E-06
C	T	0.23	-0.1201645	0.02492314	2.27E-06
G	A	0.23	-0.1185718	0.02490819	3.00E-06
T	C	0.24	-0.1202628	0.02477206	1.94E-06
C	A	0.43	-0.0980907	0.02167305	8.57E-06
C	G	0.44	-0.0977174	0.02167859	9.29E-06
G	A	0.24	-0.1242083	0.02490731	1.05E-06
G	C	0.24	-0.1176367	0.02496379	3.73E-06
A	G	0.24	-0.123543	0.0249144	1.20E-06
T	G	0.24	-0.118696	0.02502821	3.25E-06
G	C	0.23	-0.1178737	0.02517466	4.27E-06
A	G	0.23	-0.1178737	0.02517466	4.27E-06
C	T	0.41	-0.1003638	0.02119559	3.36E-06
T	C	0.02	-0.3791332	0.0831239	7.34E-06
C	T	0.01	-0.4424955	0.08833945	9.42E-07
CTTTG	C	0.01	-0.4424955	0.08833945	9.42E-07
G	A	0.01	-0.4424955	0.08833945	9.42E-07
G	A	0.01	-0.4424955	0.08833945	9.42E-07
T	C	0.01	-0.4424955	0.08833945	9.42E-07
G	C	0.01	-0.4424955	0.08833945	9.42E-07
T	C	0.01	-0.4929074	0.1054802	4.45E-06
A	G	0.01	-0.4929074	0.1054802	4.45E-06
GAAAGAA	G	0.02	-0.332	0.07140901	4.96E-06
T	A	0.03	-0.35439	0.06758164	3.03E-07
C	T	0.03	-0.2829519	0.06215222	7.62E-06
C	T	0.04	-0.2821208	0.05791187	1.80E-06
G	T	0.04	-0.2898045	0.05838131	1.17E-06
T	A	0.04	-0.2821208	0.05791187	1.80E-06
T	C	0.02	-0.3803295	0.08161883	4.73E-06
C	T	0.02	-0.3260862	0.07079896	6.02E-06
ATAG	A	0.04	-0.2539221	0.05195646	1.67E-06
C	T	0.03	-0.2985188	0.06221938	2.52E-06

T	C	0.03	-0.2856529	0.06169791	5.41E-06
A	G	0.03	-0.2878431	0.06163309	4.51E-06
A	T	0.03	-0.2878431	0.06163309	4.51E-06
G	C	0.01	-0.441759	0.09357706	3.59E-06
T	A	0.07	-0.1918842	0.0422331	7.93E-06
C	T	0.01	-0.452605	0.09871979	6.61E-06
C	T	0.01	-0.421035	0.08951716	3.88E-06
T	G	0.01	-0.421035	0.08951716	3.88E-06
A	C	0.01	-0.4473462	0.09947895	9.73E-06
AT	A	0.01	-0.4399003	0.09248661	3.05E-06
G	A	0.03	-0.2990689	0.0664912	9.69E-06
G	T	0.1	-0.159663	0.03345829	2.84E-06
C	T	0.15	-0.1476375	0.02867336	4.82E-07
T	C	0.02	-0.3997311	0.08740138	6.95E-06
C	A	0.02	-0.3997311	0.08740138	6.95E-06
T	A	0.02	-0.3997311	0.08740138	6.95E-06
A	T	0.02	-0.3997311	0.08740138	6.95E-06
G	A	0.02	-0.3997311	0.08740138	6.95E-06
T	C	0.02	-0.3997311	0.08740138	6.95E-06
C	A	0.02	-0.3997311	0.08740138	6.95E-06
A	C	0.02	-0.3997311	0.08740138	6.95E-06
G	A	0.02	-0.3997311	0.08740138	6.95E-06
A	G	0.02	-0.3997311	0.08740138	6.95E-06
G	C	0.02	-0.3997311	0.08740138	6.95E-06
TG	T	0.02	-0.3997311	0.08740138	6.95E-06
G	T	0.02	-0.3997311	0.08740138	6.95E-06
G	T	0.02	-0.3997311	0.08740138	6.95E-06
A	C	0.02	-0.3997311	0.08740138	6.95E-06
G	T	0.02	-0.3997311	0.08740138	6.95E-06
C	T	0.02	-0.3997311	0.08740138	6.95E-06
C	T	0.02	-0.3997311	0.08740138	6.95E-06
C	T	0.02	-0.3997311	0.08740138	6.95E-06
C	T	0.01	-0.4759733	0.1059653	9.95E-06
G	A	0.07	-0.1838646	0.04054442	8.24E-06
G	A	0.07	-0.1838646	0.04054442	8.24E-06
T	C	0.05	-0.2393141	0.05060073	3.45E-06
T	A	0.01	-0.4595748	0.09837081	4.48E-06
A	G	0.01	-0.4558107	0.09833053	5.27E-06
G	A	0.01	-0.4558107	0.09833053	5.27E-06
T	A	0.01	-0.4558107	0.09833053	5.27E-06
A	C	0.01	-0.4558107	0.09833053	5.27E-06
GCACA	G	0.01	-0.451035	0.09831382	6.52E-06
C	T	0.01	-0.4744501	0.1039729	7.27E-06
A	G	0.01	-0.4744501	0.1039729	7.27E-06
A	AAGGAAGGC	0.05	-0.2117773	0.04583009	5.63E-06
AT	A	0.12	-0.1493469	0.03274462	7.34E-06
A	T	0.38	-0.1008945	0.02211159	7.28E-06
CA	C	0.39	-0.1015942	0.02191185	5.25E-06
GTC	G	0.37	-0.1005507	0.02221982	8.59E-06
T	C	0.01	-0.4793063	0.1042854	6.28E-06

G	A	0.02	-0.3917235	0.08417905	4.86E-06
T	A	0.01	-0.484197	0.1053462	6.28E-06
G	A	0.01	-0.4702582	0.1040273	8.78E-06
C	T	0.03	-0.3422091	0.06676032	5.39E-07
C	T	0.01	-0.5567524	0.105015	2.28E-07
A	T	0.01	-0.5567524	0.105015	2.28E-07
T	C	0.33	-0.1012791	0.0224598	9.22E-06
G	A	0.02	-0.3357036	0.07354787	7.23E-06
G	T	0.03	-0.2923851	0.06214345	3.86E-06
A	C	0.05	-0.2137482	0.04678508	7.10E-06
G	T	0.03	-0.3016125	0.06599048	7.04E-06
TCACACACA	T	0.01	-0.4135101	0.08924835	5.32E-06
A	AATAAC	0.01	-0.4209506	0.09284908	8.28E-06
TCCTTCTTTCTTTCTTTT	T	0.02	-0.3982547	0.08614373	5.57E-06
CA	C	0.02	-0.3608779	0.06640207	1.18E-07
A	C	0.02	-0.4247456	0.08343716	6.38E-07
T	C	0.01	-0.4322549	0.09346418	5.53E-06
C	T	0.01	-0.4875485	0.101455	2.44E-06
T	C	0.01	-0.4348798	0.08828198	1.39E-06
GAGT	G	0.02	-0.4247493	0.08422918	8.02E-07
G	A	0.01	-0.5031773	0.09970483	7.88E-07
C	T	0.04	-0.2562502	0.05526079	5.23E-06
G	A	0.02	-0.3940553	0.07979313	1.31E-06
C	T	0.02	-0.3734203	0.07857963	3.11E-06
C	T	0.04	-0.2562502	0.05526079	5.23E-06
T	C	0.04	-0.2481854	0.05493998	8.90E-06
G	A	0.04	-0.2562502	0.05526079	5.23E-06
C	T	0.04	-0.2478968	0.05483732	8.77E-06
C	A	0.04	-0.2562502	0.05526079	5.23E-06
A	G	0.29	-0.0955824	0.02097585	7.48E-06
A	G	0.25	0.3154926	0.06335601	1.09E-06
G	A	0.43	0.2409579	0.05360712	9.85E-06
C	T	0.27	0.2889645	0.06139276	3.84E-06
G	A	0.27	0.2885616	0.0613241	3.86E-06
C	T	0.27	0.2794371	0.06149012	7.93E-06
G	A	0.27	0.2799913	0.06144855	7.51E-06
C	T	0.27	0.2901227	0.06141291	3.55E-06
T	G	0.27	0.3038137	0.06114832	1.15E-06
G	T	0.27	0.2889645	0.06139276	3.84E-06
C	T	0.28	0.2986773	0.06083682	1.51E-06
C	T	0.28	0.2911146	0.06120754	3.07E-06
T	C	0.28	0.2865766	0.06129217	4.42E-06
G	A	0.28	0.2865766	0.06129217	4.42E-06
C	G	0.28	0.2829854	0.06113416	5.45E-06
A	G	0.27	0.3015466	0.05935053	6.73E-07
G	T	0.28	0.2888464	0.06107527	3.47E-06
G	T	0.28	0.2991611	0.06096847	1.53E-06
GTTATT	G	0.28	0.2950474	0.06131071	2.37E-06
G	C	0.28	0.2940918	0.0611015	2.36E-06
T	A	0.27	0.3072908	0.06090075	7.95E-07

C	G	0.28	0.2788834	0.06128493	7.71E-06
G	A	0.27	0.301055	0.06085648	1.27E-06
G	A	0.28	0.2940918	0.0611015	2.36E-06
T	C	0.28	0.2994288	0.06086363	1.44E-06
TA	T	0.28	0.2911146	0.06120754	3.07E-06
C	T	0.28	0.2911146	0.06120754	3.07E-06
A	G	0.28	0.3048869	0.06102677	1.01E-06
G	A	0.28	0.2998056	0.0611595	1.57E-06
G	T	0.28	0.2963027	0.06138595	2.22E-06
G	A	0.28	0.2959131	0.06155137	2.42E-06
G	A	0.28	0.2933004	0.06149318	2.88E-06
C	T	0.28	0.2933004	0.06149318	2.88E-06
A	G	0.28	0.289867	0.06142361	3.63E-06
G	C	0.28	0.2991854	0.06165053	1.97E-06
T	G	0.28	0.297965	0.06134303	1.93E-06
TA	T	0.28	0.2950044	0.0616443	2.68E-06
G	A	0.28	0.2963027	0.06138595	2.22E-06
C	T	0.28	0.2963027	0.06138595	2.22E-06
C	T	0.28	0.2796892	0.06146213	7.71E-06
G	A	0.28	0.2963027	0.06138595	2.22E-06
C	T	0.28	0.3018289	0.06136536	1.45E-06
AC	A	0.28	0.3018289	0.06136536	1.45E-06
A	G	0.28	0.3094282	0.06197401	1.02E-06
G	A	0.28	0.2998967	0.06237695	2.42E-06
T	C	0.27	0.2990174	0.06210965	2.35E-06
G	T	0.27	0.3019106	0.06204688	1.85E-06
A	G	0.28	0.2932154	0.06232275	3.87E-06
C	G	0.28	0.2893355	0.06236757	5.20E-06
G	A	0.28	0.2893355	0.06236757	5.20E-06
G	A	0.26	0.300912	0.0629982	2.80E-06
G	A	0.26	0.300912	0.0629982	2.80E-06
G	A	0.26	0.300912	0.0629982	2.80E-06
AC	A	0.26	0.2999063	0.06324438	3.27E-06
T	C	0.26	0.3002283	0.06310095	3.04E-06
TGAAAA	T	0.26	0.2945645	0.06303687	4.47E-06
G	T	0.26	0.300912	0.0629982	2.80E-06
C	A	0.26	0.3063258	0.06313175	1.97E-06
C	T	0.26	0.300912	0.0629982	2.80E-06
C	T	0.26	0.2883899	0.06327146	7.47E-06
C	T	0.26	0.2884429	0.06329762	7.50E-06
C	T	0.26	0.3034157	0.06293441	2.28E-06
G	A	0.26	0.300912	0.0629982	2.80E-06
C	A	0.26	0.300912	0.0629982	2.80E-06
A	G	0.26	0.300912	0.0629982	2.80E-06
CAAATAAAT	C	0.01	-1.27232	0.255011	1.04E-06
C	T	0.01	-1.276604	0.2682471	3.03E-06
G	A	0.01	-1.276604	0.2682471	3.03E-06
CT	C	0.01	-1.009169	0.2165047	4.72E-06
A	C	0.01	-1.052783	0.2332797	9.10E-06
TA	T	0.02	-0.8439375	0.179751	4.05E-06

A	AAAGG	0.03	-0.8301477	0.1643126	7.71E-07
G	A	0.37	-0.2667345	0.05317805	9.17E-07
G	A	0.26	0.2903318	0.06042314	2.45E-06
G	A	0.24	0.2976922	0.06436412	5.54E-06
G	A	0.04	-0.6688592	0.141938	3.74E-06
A	AAT	0.04	0.6405424	0.1398623	6.78E-06
A	T	0.02	0.8610156	0.1872943	6.28E-06
A	AACACAC	0.02	-1.09699	0.2189355	9.40E-07
TC	T	0.01	-1.19148	0.2649484	9.76E-06
A	G	0.01	-1.158774	0.2514692	5.98E-06
G	A	0.01	-1.158774	0.2514692	5.98E-06
A	AACACACACACAC	0.03	-0.717488	0.158346	8.40E-06
C	T	0.04	0.646678	0.134057	2.25E-06
C	CA	0.04	0.6185495	0.133341	5.21E-06
G	A	0.04	0.6185495	0.133341	5.21E-06
T	C	0.06	0.5339407	0.1120779	2.96E-06
T	TC	0.02	-1.004109	0.2087953	2.41E-06
G	A	0.07	-0.4867883	0.1049193	5.19E-06
AT	A	0.02	-0.9525699	0.2086887	7.25E-06
T	C	0.02	-0.9525699	0.2086887	7.25E-06
C	CCACA	0.02	-1.009103	0.2229373	8.58E-06
CA	C	0.06	0.4875323	0.1057066	5.87E-06
GC	G	0.01	-1.15121	0.2496949	5.92E-06
C	G	0.02	0.9423174	0.196332	2.51E-06
GGT	G	0.09	-0.4484667	0.09476654	3.42E-06
C	T	0.01	-1.196146	0.2642651	8.58E-06
A	G	0.21	-0.3031494	0.06465367	4.16E-06
C	G	0.17	-0.3284351	0.07205217	7.46E-06
A	G	0.02	-0.9457691	0.2035824	5.06E-06
G	A	0.2	0.2971208	0.06550163	8.22E-06
G	T	0.2	0.3113666	0.06558687	3.19E-06
C	G	0.3	-0.3142847	0.06213348	7.49E-07
A	C	0.06	-0.5255468	0.1070766	1.52E-06
C	T	0.02	-1.038389	0.2161415	2.46E-06
C	G	0.01	-1.12347	0.2392449	4.03E-06
T	C	0.01	-1.138129	0.2498264	7.54E-06
G	A	0.02	-0.9073487	0.1929695	3.92E-06
GC	G	0.02	-1.021739	0.2023785	7.84E-07
T	A	0.04	-0.7179498	0.1409908	6.37E-07
T	C	0.19	-0.3345255	0.06975318	2.56E-06
G	A	0.19	-0.3416595	0.07049813	2.03E-06
T	C	0.19	-0.3345255	0.06975318	2.56E-06
T	G	0.2	-0.3497874	0.06780721	4.63E-07
C	CA	0.01	-0.9513439	0.1929597	1.37E-06
T	TA	0.02	-1.082079	0.2035433	2.14E-07
A	‡AGAACATTAGGACA‡	0.01	-1.060772	0.231123	6.49E-06
T	TA	0.02	-0.8483837	0.1837637	5.75E-06
G	A	0.06	-0.5459788	0.1164529	4.17E-06
C	CTG	0.02	-0.8014891	0.177733	9.24E-06
G	A	0.41	-0.2476217	0.05411724	6.90E-06

A	C	0.41	-0.250279	0.0547012	6.91E-06
T	A	0.4	-0.2464795	0.05447302	8.64E-06
C	G	0.4	-0.2583763	0.05432627	3.07E-06
T	G	0.13	0.3651546	0.07872629	5.22E-06
T	TA	0.47	-0.1350365	0.02080655	4.28E-10
C	CACCT	0.01	0.7271259	0.1227963	9.86E-09
TAATAA	T	0.01	0.8418857	0.14029	6.45E-09
T	C	0.2	0.214414	0.03621958	9.94E-09
G	A	0.18	0.2591554	0.03823751	8.46E-11
A	G	0.17	0.2437907	0.03858386	1.14E-09
T	A	0.17	-0.1267263	0.02106475	6.14E-09
A	C	0.01	-0.974436	0.1619614	5.77E-09
A	G	0.01	-0.974436	0.1619614	5.77E-09
C	A	0.01	-0.974436	0.1619614	5.77E-09
ACACACACACACACA	T	0.03	0.3568181	0.0580327	2.89E-09
GGTGTGTGTGTGT	G	0.01	-0.9373848	0.1573756	8.00E-09
A	G	0.03	0.5202633	0.08724458	8.09E-09
C	T	0.02	0.6344894	0.1033461	3.14E-09
A	G	0.02	0.6344894	0.1033461	3.14E-09
C	G	0.02	0.6344894	0.1033461	3.14E-09
AACACACAC	A	0.14	0.2591002	0.04289331	5.21E-09
C	G	0.03	0.4836846	0.08046552	6.11E-09
T	G	0.02	0.5405844	0.09105013	9.07E-09
GGTGTGTGTGTGT	G	0.01	-1.063303	0.1582949	1.12E-10
T	C	0.22	-0.1168069	0.01925488	5.21E-09
G	C	0.03	0.2922001	0.06450558	8.42E-06
A	AAAAC	0.37	-0.1216308	0.02322752	3.15E-07
A	AT	0.02	0.4113287	0.07545684	1.08E-07
G	T	0.01	0.4728562	0.09876434	2.64E-06
T	C	0.02	0.3329079	0.07049888	3.57E-06
A	G	0.04	0.277707	0.0574768	2.16E-06
G	A	0.02	0.3348764	0.07359947	7.71E-06
A	G	0.02	0.3348764	0.07359947	7.71E-06
T	C	0.02	0.3348764	0.07359947	7.71E-06
C	G	0.03	0.3173578	0.06516061	1.81E-06
ACT	A	0.01	0.4935458	0.1025632	2.36E-06
G	A	0.03	0.3643002	0.06679572	1.07E-07
A	G	0.02	0.4026716	0.07031951	2.64E-08
G	GGAGA	0.28	-0.1200538	0.02531961	3.27E-06
G	A	0.01	0.4728319	0.0996937	3.25E-06
G	A	0.21	0.1384345	0.02721552	6.51E-07
T	C	0.04	0.2732524	0.05735548	2.95E-06
GA	G	0.01	0.511535	0.1085469	3.73E-06
T	TA	0.25	0.1220526	0.02667053	6.86E-06
A	T	0.06	0.2224348	0.0482158	5.82E-06
C	T	0.02	0.3430656	0.07255683	3.47E-06
G	A	0.02	0.3582724	0.07334093	1.69E-06
G	A	0.02	0.3430656	0.07255683	3.47E-06
T	A	0.02	0.3430656	0.07255683	3.47E-06
C	G	0.02	0.3430656	0.07255683	3.47E-06

T	C	0.02	0.3735462	0.08282085	9.18E-06
C	T	0.34	0.1052723	0.02318129	8.01E-06
C	T	0.34	0.1082845	0.02316596	4.43E-06
T	C	0.34	0.1077535	0.02318134	4.98E-06
T	C	0.34	0.108376	0.0231614	4.33E-06
A	G	0.34	0.1089678	0.02304974	3.48E-06
T	G	0.34	0.1116091	0.02307296	2.11E-06
A	G	0.34	0.1089678	0.02304974	3.48E-06
C	T	0.34	0.1089678	0.02304974	3.48E-06
G	C	0.34	0.1089678	0.02304974	3.48E-06
A	G	0.34	0.1089678	0.02304974	3.48E-06
A	T	0.34	0.1096744	0.02302756	2.97E-06
A	G	0.34	0.1089678	0.02304974	3.48E-06
A	G	0.34	0.1093986	0.02304452	3.18E-06
C	T	0.34	0.1084188	0.0230636	3.93E-06
C	A	0.34	0.1084188	0.0230636	3.93E-06
C	T	0.32	0.1123463	0.02305473	1.78E-06
C	T	0.34	0.1057548	0.02306741	6.61E-06
C	T	0.34	0.1084188	0.0230636	3.93E-06
C	T	0.34	0.1084188	0.0230636	3.93E-06
A	G	0.34	0.1120258	0.02312274	2.03E-06
A	G	0.34	0.1115478	0.02313959	2.27E-06
C	T	0.34	0.1115478	0.02313959	2.27E-06
T	G	0.21	0.1201241	0.02673542	9.90E-06
T	C	0.33	0.1100118	0.02319815	3.26E-06
T	C	0.34	0.1095609	0.02321848	3.62E-06
A	G	0.34	0.1115478	0.02313959	2.27E-06
C	T	0.32	0.1071336	0.02347705	7.27E-06
G	T	0.32	0.1075117	0.02346487	6.70E-06
C	T	0.32	0.1071336	0.02347705	7.27E-06
A	G	0.05	0.2280538	0.04976103	6.66E-06
G	T	0.18	0.1357874	0.02836501	2.65E-06
T	C	0.02	0.3140922	0.06969144	9.32E-06
T	C	0.22	0.1222502	0.02692838	8.06E-06
C	T	0.33	0.1070527	0.02330204	6.34E-06
C	T	0.19	0.1295939	0.02839186	7.23E-06
G	A	0.01	0.5418196	0.1014968	1.90E-07
T	A	0.01	0.5057303	0.1083276	4.55E-06
GA	G	0.01	0.5226147	0.1047122	1.03E-06
G	A	0.01	0.5893796	0.1042192	3.82E-08
A	G	0.23	0.1234734	0.02653429	4.87E-06
AAG	A	0.23	0.1198745	0.02648192	8.54E-06
CGTGTGTGTGT	C	0.02	0.421415	0.08753294	2.34E-06
A	G	0.05	0.2323483	0.05151532	9.18E-06
A	T	0.04	0.2879387	0.05480518	2.89E-07
T	C	0.01	0.4813605	0.09335108	4.65E-07
G	A	0.01	0.5178755	0.09324033	6.41E-08
A	G	0.01	0.4777572	0.1014569	3.79E-06
AACACAC	A	0.09	-0.1763825	0.03816888	5.62E-06
A	AT	0.25	-0.1095281	0.02383568	6.31E-06

T	C	0.16	0.1386475	0.02906309	2.86E-06
A	G	0.16	0.1411987	0.02921536	2.15E-06
G	C	0.16	0.136493	0.02904826	3.96E-06
C	CT	0.17	0.1372026	0.02890037	3.18E-06
T	G	0.17	0.1349367	0.02874629	4.05E-06
A	G	0.17	0.1361243	0.02876722	3.41E-06
T	C	0.17	0.1361243	0.02876722	3.41E-06
A	T	0.17	0.1361243	0.02876722	3.41E-06
A	G	0.16	0.1362044	0.02888596	3.68E-06
A	AT	0.23	0.1190018	0.02618247	7.88E-06
G	C	0.15	0.1409391	0.03018239	4.52E-06
G	C	0.01	0.4918415	0.1060309	5.20E-06
CATT	C	0.01	0.4107337	0.0907754	8.62E-06
G	A	0.45	-0.1051393	0.02134065	1.39E-06
CCT	C	0.45	-0.1017651	0.02137087	2.98E-06
C	T	0.07	0.2088541	0.042956	1.88E-06
G	GGTGTGT	0.04	0.2570205	0.05630303	7.22E-06
A	ATTTAGATATTCAG	0.02	0.3717179	0.07462696	1.08E-06
G	A	0.03	0.3430898	0.068247	8.64E-07
C	T	0.01	0.4857652	0.1016069	2.73E-06
C	T	0.03	0.3292793	0.07040272	4.37E-06
C	T	0.03	0.3130386	0.06650564	3.82E-06
C	T	0.03	0.3223206	0.06404571	8.42E-07
G	GGTGTGT	0.02	0.3258972	0.07066984	5.87E-06
A	T	0.02	0.3811476	0.08312973	6.60E-06
G	C	0.04	0.2585031	0.05590521	5.55E-06
G	A	0.01	0.4919762	0.1078282	7.29E-06
A	G	0.01	0.4577876	0.09795978	4.45E-06
C	G	0.02	0.3196659	0.067173	3.02E-06
C	T	0.11	0.1575289	0.03385056	4.86E-06
C	G	0.1	0.166618	0.03603565	5.56E-06
G	A	0.02	0.3890431	0.0803586	2.07E-06
G	A	0.12	0.1546011	0.03357645	6.05E-06
T	C	0.03	0.2909727	0.06390483	7.60E-06
C	T	0.03	0.3090454	0.06870235	9.67E-06
CA	C	0.03	0.3090454	0.06870235	9.67E-06
AATAC	A	0.14	0.1419094	0.03103727	6.99E-06
T	C	0.02	0.3939055	0.08693018	8.37E-06
T	C	0.02	0.378478	0.08348571	8.29E-06
C	T	0.02	0.378478	0.08348571	8.29E-06
T	C	0.01	0.4420962	0.09491772	4.77E-06
A	ATG	0.04	0.2849091	0.05842665	1.76E-06
GACTA	G	0.02	0.3377216	0.07488942	9.21E-06
C	T	0.02	0.3377216	0.07488942	9.21E-06
A	C	0.02	0.3541903	0.07364841	2.40E-06
A	G	0.06	0.2338815	0.04744258	1.37E-06
A	G	0.05	0.2457776	0.04906366	9.41E-07
C	T	0.06	0.2380537	0.04815542	1.28E-06
C	CT	0.06	0.2460903	0.04782689	4.90E-07
C	G	0.06	0.2382499	0.04805483	1.20E-06

T	C	0.06	0.2401059	0.04759248	7.94E-07
C	T	0.06	0.2382499	0.04805483	1.20E-06
G	A	0.05	0.2488542	0.04844066	5.10E-07
T	C	0.03	0.2861005	0.06299602	8.00E-06
T	C	0.03	0.288228	0.06183547	4.70E-06
C	A	0.03	0.3156898	0.0647942	1.79E-06
CT	C	0.02	0.3567934	0.07643898	4.56E-06
T	C	0.06	0.203538	0.04451805	6.99E-06
G	GT	0.06	0.203538	0.04451805	6.99E-06
C	T	0.01	0.4973711	0.1074666	5.45E-06
C	T	0.03	0.3045759	0.06755319	9.24E-06
T	TCACACA	0.02	0.337293	0.07049416	2.68E-06
C	G	0.04	0.2413213	0.05260881	6.54E-06
TGTGTGTGTC	T	0.03	0.2803578	0.06158347	7.62E-06
C	A	0.01	0.4519453	0.09794124	5.79E-06
G	A	0.03	0.3004069	0.0640435	4.11E-06
C	T	0.01	0.4882686	0.1038364	3.90E-06
C	T	0.35	0.1098071	0.02239301	1.55E-06
G	A	0.35	0.1118276	0.02239147	1.01E-06
G	C	0.3	0.1158236	0.0237241	1.71E-06
G	A	0.3	0.1180874	0.02393387	1.34E-06
C	CT	0.06	0.2123971	0.04700358	8.84E-06
C	A	0.04	0.2923929	0.06072168	2.33E-06
A	G	0.04	0.2923929	0.06072168	2.33E-06
C	T	0.04	0.2923929	0.06072168	2.33E-06
A	G	0.01	0.4715464	0.1023327	5.96E-06
A	C	0.03	0.3032891	0.06254237	1.99E-06
T	TC	0.01	0.4850236	0.107053	8.39E-06
C	T	0.05	0.2329224	0.05129708	8.03E-06
G	T	0.02	0.3859189	0.08415018	6.57E-06
C	T	0.03	0.3210927	0.06512444	1.36E-06
G	A	0.04	0.2424189	0.05227586	5.23E-06
C	T	0.04	0.2386874	0.05297179	9.36E-06
C	T	0.01	0.4718617	0.1044916	8.96E-06
C	T	0.02	0.3733651	0.08069943	5.48E-06
CTGTGTG	C	0.11	0.1893572	0.0362505	3.35E-07
A	C	0.02	0.4253243	0.09119182	4.64E-06
C	A	0.02	0.4253243	0.09119182	4.64E-06
C	A	0.02	0.4253243	0.09119182	4.64E-06
A	AT	0.03	0.2814986	0.06167471	7.24E-06
C	T	0.01	0.4576455	0.09364886	1.67E-06
C	A	0.28	-0.1212562	0.02652908	7.03E-06
AACAC	A	0.03	-0.3600964	0.07828299	6.18E-06
C	T	0.04	-0.31235	0.06598149	3.38E-06
C	A	0.38	0.1191167	0.02632669	8.62E-06
C	A	0.38	0.1189975	0.02635348	8.97E-06
T	C	0.48	0.1246188	0.02598923	2.56E-06
A	G	0.48	0.1217947	0.02600301	4.24E-06
G	A	0.1	-0.1958699	0.04335447	8.88E-06
AGAAGGAAG	A	0.03	-0.3546697	0.07870865	9.35E-06

G	A	0.28	0.127407	0.02812359	8.41E-06
GACACACAC	G	0.07	0.2492768	0.05333985	4.45E-06
T	A	0.05	-0.2779992	0.05921892	4.04E-06
C	CA	0.11	0.2053306	0.04264282	2.33E-06
TATAG	T	0.12	0.1878271	0.03976384	3.54E-06
C	T	0.47	0.1175281	0.02588756	8.06E-06
TA	T	0.24	0.1415528	0.03009123	3.87E-06
T	TTCTTTCTTTCTTTCTT	0.02	0.4283754	0.08929205	2.53E-06
C	T	0.13	-0.1760859	0.03721788	3.42E-06
A	T	0.05	0.3107874	0.06262702	1.17E-06
G	A	0.47	-0.1217739	0.02605251	4.43E-06
G	A	0.28	-0.1242131	0.02659824	4.52E-06
G	A	0.08	0.2180162	0.04738245	6.14E-06
G	A	0.08	0.2118069	0.04667271	8.12E-06
A	G	0.08	0.2118069	0.04667271	8.12E-06
T	G	0.08	0.2118069	0.04667271	8.12E-06
C	T	0.08	0.2118069	0.04667271	8.12E-06
A	T	0.08	0.2118069	0.04667271	8.12E-06
T	A	0.1	0.2237419	0.04656879	2.45E-06
G	T	0.04	-0.325141	0.07108234	6.93E-06
T	GGGGCAGGGCGACC	0.24	0.1422949	0.03086554	5.90E-06
G	A	0.09	0.2041525	0.0446519	6.99E-06
A	ATCTCTCTC	0.08	0.1948448	0.04295723	8.21E-06
CA	C	0.26	0.1011054	0.02201493	6.38E-06
T	C	0.04	0.2637734	0.0538974	1.62E-06
T	G	0.04	0.2637734	0.0538974	1.62E-06
GA	G	0.02	0.418754	0.08972339	4.57E-06
TA	T	0.08	0.1769553	0.03915651	8.83E-06
C	T	0.01	0.5544314	0.09321603	8.17E-09
C	T	0.02	0.4225273	0.08592904	1.45E-06
T	C	0.02	0.4225273	0.08592904	1.45E-06
A	G	0.01	0.4142719	0.09188141	9.24E-06
C	T	0.07	0.1987799	0.04103094	2.03E-06
C	A	0.04	0.3136138	0.06037457	3.86E-07
C	A	0.03	0.2903193	0.06164755	3.78E-06
G	A	0.03	0.2903193	0.06164755	3.78E-06
C	T	0.03	0.2882219	0.06294465	6.78E-06
C	T	0.02	0.3568541	0.07768062	6.35E-06
CCCTACCATCGGCCG	C	0.02	0.3662605	0.08000342	6.81E-06
T	A	0.04	0.2844654	0.06039472	3.77E-06
GA	G	0.11	0.1622259	0.03584418	8.57E-06
G	C	0.02	0.3902301	0.08485579	6.21E-06
G	C	0.02	0.3825461	0.08160267	4.16E-06
G	A	0.03	0.2866563	0.06284072	7.32E-06
G	A	0.01	0.4789749	0.09693063	1.30E-06
C	G	0.21	0.1189734	0.02614686	7.70E-06
T	G	0.24	0.1132722	0.02466815	6.40E-06
CA	C	0.24	0.1127946	0.02485604	8.13E-06
G	C	0.02	0.4016727	0.088557	8.21E-06
TC	T	0.28	0.1087418	0.02376258	6.87E-06

G	A	0.2	0.1336875	0.0275787	2.01E-06
A	T	0.4	0.09765075	0.02173446	9.90E-06
T	C	0.18	0.1283768	0.02850317	9.44E-06
A	G	0.18	0.1282775	0.02831214	8.39E-06
A	G	0.01	0.4512995	0.09374657	2.34E-06
C	TGAATGAATGAATGA	0.03	0.3010077	0.0652307	5.79E-06
A	ATGTG	0.01	0.480677	0.1051156	6.97E-06
A	AAGAGAG	0.01	0.4560746	0.0987789	5.72E-06
T	C	0.02	0.3873601	0.07889356	1.50E-06
T	A	0.01	0.4810056	0.1050705	6.81E-06
G	A	0.07	0.1969813	0.04066355	2.04E-06
G	T	0.03	0.2841015	0.06160557	5.86E-06
A	G	0.41	-0.1049709	0.02228435	3.76E-06
T	C	0.41	-0.1087856	0.02225357	1.66E-06
C	T	0.3	0.1210466	0.02326312	3.70E-07
C	CTG	0.03	0.315281	0.0693601	7.86E-06
G	A	0.02	0.3822027	0.08158412	4.22E-06
T	G	0.02	0.4033699	0.08305183	1.92E-06
G	A	0.02	0.4033699	0.08305183	1.92E-06
TA	T	0.09	0.183064	0.03704055	1.29E-06
T	G	0.03	0.2750795	0.06096904	9.12E-06
C	T	0.02	0.3566811	0.07598565	4.05E-06
T	C	0.02	0.3566811	0.07598565	4.05E-06
T	C	0.02	0.3827204	0.08193209	4.49E-06
C	T	0.02	0.4074591	0.08343103	1.70E-06
C	T	0.02	0.4074591	0.08343103	1.70E-06
C	T	0.02	0.4051527	0.08341334	1.92E-06
G	A	0.02	0.4051527	0.08341334	1.92E-06
T	TGTGTGTGTGC	0.01	0.5057292	0.09218363	9.07E-08
C	T	0.02	0.3802353	0.08197578	5.20E-06
T	C	0.02	0.430663	0.08495155	7.06E-07
G	GA	0.22	0.1233973	0.02720699	8.22E-06
T	G	0.02	0.3934331	0.08745828	9.66E-06
C	T	0.01	0.5137086	0.09931132	4.29E-07
A	G	0.48	-0.0998986	0.02206632	8.52E-06
T	TACAC	0.01	0.5571664	0.1010015	7.78E-08
G	A	0.01	0.5270682	0.1072183	1.46E-06
CTT	C	0.01	0.5270682	0.1072183	1.46E-06
T	C	0.01	0.5270682	0.1072183	1.46E-06
C	CGT	0.02	0.3666807	0.07160145	5.51E-07
C	T	0.02	0.405481	0.08269561	1.55E-06
A	G	0.01	0.5168459	0.1079613	2.65E-06
T	C	0.03	0.2899077	0.0637924	7.90E-06
A	C	0.43	0.1200027	0.02240352	1.74E-07
T	C	0.44	0.1188865	0.02232365	2.03E-07
TC	T	0.08	0.1909023	0.04136876	5.79E-06
G	GTA	0.1	0.2044816	0.03887577	2.81E-07
A	C	0.08	0.1822136	0.04003728	7.67E-06
G	A	0.08	0.1822136	0.04003728	7.67E-06
CTGTCTATCTATCTAT	G	0.11	0.1546122	0.03432035	9.39E-06

C	T	0.01	0.492577	0.1028073	2.60E-06
A	G	0.01	0.492577	0.1028073	2.60E-06
T	G	0.05	0.2219564	0.04758022	4.62E-06
A	ACCTTCCTTCCTTCCTT	0.13	0.1462582	0.03233563	8.68E-06
G	A	0.2	0.1254305	0.02714365	5.62E-06
C	T	0.01	0.434661	0.09474815	6.53E-06
G	A	0.04	0.2478167	0.05397204	6.41E-06
G	A	0.01	0.4720723	0.1050991	9.96E-06
T	C	0.01	0.4720723	0.1050991	9.96E-06
C	A	0.02	0.3476549	0.07069253	1.45E-06
C	G	0.37	0.09928212	0.02096122	3.34E-06
A	G	0.23	0.1124838	0.02493425	9.14E-06
C	T	0.11	0.1517917	0.03352472	8.50E-06
G	A	0.02	0.3951072	0.08503	5.01E-06
A	ACTTACTTCCTTC	0.07	0.2058428	0.04332614	3.13E-06
G	A	0.13	0.1489388	0.03297981	8.95E-06
C	A	0.02	-0.4250476	0.09204586	5.71E-06
C	CACATACAT	0.38	-0.1084117	0.02388095	8.07E-06
G	GA	0.29	-0.1336219	0.02736212	1.70E-06
A	T	0.28	-0.1326503	0.02750967	2.26E-06
T	A	0.26	0.134794	0.02926601	6.02E-06
T	C	0.5	0.1164841	0.02492605	4.45E-06
T	G	0.47	-0.1179401	0.02566321	6.30E-06
G	C	0.48	0.1203815	0.02473468	1.84E-06
G	C	0.49	-0.116238	0.02517484	5.72E-06
A	C	0.5	-0.1129428	0.02491024	8.27E-06
TA	T	0.16	0.1539565	0.03298586	4.57E-06
CACACACAG	C	0.33	-0.1218107	0.02663869	6.97E-06
C	A	0.11	-0.1887002	0.03961393	2.96E-06
C	T	0.11	-0.1828471	0.04009383	7.36E-06
C	T	0.11	-0.1887002	0.03961393	2.96E-06
A	G	0.11	-0.1864181	0.03908076	2.87E-06
G	A	0.11	-0.1869801	0.0388486	2.35E-06
C	G	0.11	-0.1921571	0.03919324	1.55E-06
G	A	0.11	-0.1856286	0.03908091	3.14E-06
A	G	0.11	-0.1840505	0.03915474	3.93E-06
A	G	0.11	-0.1796747	0.0392532	6.83E-06
T	C	0.11	-0.1805001	0.03909826	5.74E-06
G	A	0.12	-0.1827642	0.03879312	3.75E-06
T	C	0.11	-0.1769838	0.03923844	9.17E-06
T	C	0.12	-0.1827642	0.03879312	3.75E-06
T	C	0.12	-0.1827642	0.03879312	3.75E-06
G	A	0.12	-0.1827642	0.03879312	3.75E-06
A	G	0.11	-0.1867392	0.03883937	2.41E-06
G	A	0.16	-0.1509946	0.03360295	9.88E-06
G	A	0.11	-0.1884314	0.0389373	2.09E-06
C	T	0.11	-0.1789506	0.03951137	8.45E-06
C	T	0.14	0.1586961	0.03511162	8.80E-06
C	A	0.14	0.15987	0.03527658	8.35E-06
G	A	0.14	0.1606528	0.03537105	7.99E-06

C	T	0.14	0.1619374	0.03549223	7.29E-06
G	A	0.14	0.1617153	0.03521948	6.41E-06
GT	G	0.14	0.1648828	0.03533102	4.58E-06
T	C	0.44	-0.1135369	0.02495641	7.73E-06
A	AGTGTGT	0.11	0.2004108	0.04127406	1.93E-06
A	T	0.24	-0.1318692	0.02751252	2.58E-06
A	G	0.34	0.1094141	0.02409584	8.03E-06
G	A	0.02	-0.4413903	0.09562495	5.75E-06
CAAACA	C	0.23	-0.1400221	0.03032727	5.72E-06
A	G	0.23	-0.1374682	0.03018707	7.58E-06
T	C	0.23	-0.1374682	0.03018707	7.58E-06
C	A	0.22	-0.1388087	0.03058663	8.12E-06
C	T	0.22	-0.1388087	0.03058663	8.12E-06
G	A	0.03	-0.3369266	0.07295434	5.69E-06
G	A	0.02	-0.3782791	0.07722736	1.59E-06
G	C	0.01	-0.5592097	0.1164251	2.46E-06
T	C	0.02	-0.4268153	0.09097456	4.10E-06
C	T	0.02	-0.4268153	0.09097456	4.10E-06
C	T	0.01	-0.5513817	0.1215878	8.24E-06
C	T	0.21	-0.1408216	0.03026043	4.86E-06
C	CTAAGTAAGTAAG	0.01	-0.50407	0.1099817	6.65E-06
C	T	0.09	-0.1934655	0.042751	8.59E-06
C	T	0.03	-0.3180072	0.06898858	5.92E-06
AAAT	A	0.08	-0.2136637	0.04628986	5.76E-06
T	A	0.48	0.1052824	0.02276421	5.53E-06
G	A	0.4	-0.1144519	0.02537037	9.14E-06
C	A	0.02	-0.4099203	0.08043957	6.22E-07
G	T	0.16	-0.1510999	0.03324356	7.87E-06
C	T	0.34	0.1176026	0.02609291	9.31E-06
G	A	0.01	-0.5957746	0.1142846	3.53E-07
T	A	0.01	-0.5957746	0.1142846	3.53E-07
G	A	0.01	-0.5891701	0.1180586	1.03E-06
G	A	0.18	-0.1432238	0.03146851	7.66E-06
A	G	0.24	0.1348904	0.02897806	4.83E-06
C	T	0.24	0.1314642	0.02910557	8.92E-06
G	T	0.24	0.1326987	0.0289868	6.81E-06
C	T	0.24	0.1301901	0.02898835	9.98E-06
C	T	0.24	0.1301901	0.02898835	9.98E-06
C	T	0.24	0.1301901	0.02898835	9.98E-06
G	A	0.25	0.1332423	0.02859585	4.73E-06
T	A	0.25	0.1303149	0.028454	6.75E-06
A	T	0.1	0.2003669	0.04268972	4.06E-06
G	A	0.14	0.1817619	0.03784514	2.47E-06
G	C	0.12	0.1798649	0.04003139	9.90E-06
A	G	0.13	0.1911534	0.03886386	1.44E-06
T	C	0.12	-0.172571	0.03744894	5.96E-06
TTAAATAAATAAATAA	C	0.12	-0.1736231	0.03831238	8.35E-06
A	ATGTGTG	0.02	-0.4372664	0.09469753	5.71E-06
CA	C	0.21	-0.1537791	0.02995858	5.20E-07
G	A	0.22	-0.1311933	0.02906402	9.03E-06

A	G	0.06	-0.2442754	0.05131458	3.00E-06
T	G	0.05	0.2746313	0.06093643	9.32E-06
C	T	0.15	0.1645658	0.03481292	3.49E-06
C	T	0.15	0.1617881	0.03477534	4.89E-06
T	C	0.12	0.1857452	0.03873969	2.56E-06
T	A	0.12	0.1835001	0.03889067	3.63E-06
ATG	A	0.12	0.184653	0.03981514	5.22E-06
C	A	0.12	0.184653	0.03981514	5.22E-06
G	T	0.13	0.1820213	0.03910017	4.82E-06
G	T	0.12	0.1773988	0.03899549	7.73E-06
C	T	0.12	0.1773988	0.03899549	7.73E-06
G	A	0.12	0.1773988	0.03899549	7.73E-06
A	AT	0.12	0.1773988	0.03899549	7.73E-06
A	T	0.13	0.1856098	0.03846648	2.23E-06
G	C	0.13	0.1756248	0.03857521	7.61E-06
G	C	0.13	0.1845133	0.03861891	2.77E-06
T	C	0.13	0.1810034	0.03889438	4.86E-06
C	T	0.13	0.1735961	0.03832802	8.45E-06
G	A	0.13	0.1833088	0.0389948	3.93E-06
T	C	0.13	0.1754848	0.0387112	8.30E-06
TACAC	T	0.11	-0.1959544	0.04144504	3.47E-06
A	AT	0.32	0.1241134	0.02689318	5.78E-06
T	G	0.24	0.1369541	0.0286325	2.70E-06
A	G	0.46	-0.113628	0.02520079	9.23E-06
T	C	0.01	0.490939	0.1077991	7.57E-06
C	CAA	0.3	0.1223913	0.02663678	6.32E-06
G	A	0.44	0.1192936	0.02562123	4.81E-06
T	C	0.43	0.1170191	0.02568008	7.48E-06
T	C	0.21	0.1397728	0.03107533	9.69E-06
C	T	0.33	0.1175282	0.02566793	6.79E-06
T	C	0.33	0.1198042	0.0256791	4.61E-06
G	A	0.33	0.1198042	0.0256791	4.61E-06
T	G	0.33	0.1198042	0.0256791	4.61E-06
C	T	0.34	0.1173667	0.02579845	7.73E-06
G	C	0.34	0.1173667	0.02579845	7.73E-06
C	G	0.34	0.1164569	0.02582336	9.20E-06
C	A	0.33	0.116371	0.02568062	8.36E-06
G	C	0.34	0.1173667	0.02579845	7.73E-06
A	G	0.34	0.1173667	0.02579845	7.73E-06
G	C	0.34	0.1173667	0.02579845	7.73E-06
T	C	0.45	0.1141214	0.02509126	7.77E-06
T	C	0.35	0.115629	0.0252956	7.02E-06
T	G	0.44	0.1125504	0.02495792	9.21E-06
T	A	0.49	0.1071367	0.02346054	7.16E-06
TCA	T	0.45	0.1135424	0.02503078	8.19E-06
C	A	0.45	0.1163682	0.02499225	4.80E-06
G	T	0.45	0.1126026	0.02502143	9.59E-06
G	C	0.45	0.1130326	0.02503328	8.98E-06
C	T	0.45	0.1140134	0.02500651	7.40E-06
CTCCCTCTCTTCT	C	0.09	-0.2192042	0.04594068	2.85E-06

T	G	0.33	0.1162645	0.02580602	9.38E-06
C	A	0.45	0.1091547	0.02366142	5.82E-06
C	A	0.05	0.2969569	0.05717433	3.87E-07
G	A	0.05	0.2969569	0.05717433	3.87E-07
C	T	0.05	0.2969569	0.05717433	3.87E-07
C	T	0.05	0.2969569	0.05717433	3.87E-07
CTA	C	0.05	0.2969569	0.05717433	3.87E-07
AGAT	A	0.05	0.2969569	0.05717433	3.87E-07
G	A	0.05	0.2969569	0.05717433	3.87E-07
T	G	0.05	0.3053501	0.05743696	2.12E-07
C	T	0.05	0.3019741	0.05840092	4.34E-07
C	G	0.05	0.2969569	0.05717433	3.87E-07
G	C	0.05	0.2969569	0.05717433	3.87E-07
G	A	0.05	0.2969569	0.05717433	3.87E-07
G	GA	0.05	0.2969569	0.05717433	3.87E-07
CATTTT	C	0.05	0.2969569	0.05717433	3.87E-07
A	C	0.05	0.2969569	0.05717433	3.87E-07
T	C	0.05	0.2908179	0.05755841	7.66E-07
C	T	0.06	0.2566043	0.05546095	5.48E-06
T	C	0.04	0.3080348	0.06199649	1.14E-06
G	C	0.05	0.2849363	0.05864678	1.91E-06
A	G	0.05	0.2849363	0.05864678	1.91E-06
AAAAAAAC	A	0.05	0.2849363	0.05864678	1.91E-06
TCTC	T	0.05	0.2849363	0.05864678	1.91E-06
G	C	0.05	0.2849363	0.05864678	1.91E-06
G	A	0.05	0.2849363	0.05864678	1.91E-06
A	G	0.05	0.2849363	0.05864678	1.91E-06
C	T	0.05	0.2785314	0.05908135	3.70E-06
G	A	0.01	0.4935425	0.1095972	9.47E-06
C	CATCT	0.06	0.2519401	0.05369186	4.08E-06
A	G	0.42	-0.1134713	0.02522799	9.69E-06
A	G	0.21	-0.1540031	0.03205443	2.45E-06
CAA	C	0.03	0.3150933	0.06957466	8.46E-06
G	A	0.02	0.4506281	0.09721303	5.27E-06
C	T	0.02	0.4506281	0.09721303	5.27E-06
A	C	0.2	0.1437428	0.03158709	7.68E-06
A	C	0.02	0.3838009	0.08545463	9.97E-06
C	T	0.02	0.3838009	0.08545463	9.97E-06
C	G	0.02	0.4070735	0.08666675	4.00E-06
C	T	0.02	0.4070735	0.08666675	4.00E-06
G	T	0.02	0.4070735	0.08666675	4.00E-06
C	T	0.02	0.4070735	0.08666675	4.00E-06
G	A	0.02	0.4070735	0.08666675	4.00E-06
A	G	0.02	0.4070735	0.08666675	4.00E-06
G	A	0.02	0.4070735	0.08666675	4.00E-06
A	C	0.02	0.4070735	0.08666675	4.00E-06
T	C	0.02	0.4070735	0.08666675	4.00E-06
G	A	0.02	0.4418816	0.09226552	2.63E-06
G	A	0.04	0.293505	0.05970885	1.46E-06
G	C	0.02	0.4176675	0.08660098	2.25E-06

G	A	0.04	0.3604573	0.06921915	3.63E-07
T	C	0.46	0.1213345	0.02527428	2.49E-06
A	G	0.08	0.2134675	0.04712271	8.42E-06
A	G	0.02	0.3803362	0.08444712	9.44E-06
G	A	0.2	-0.1504363	0.03242194	5.17E-06
GA	G	0.29	0.1278217	0.02775341	6.02E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
T	C	0.05	0.2637919	0.05621658	4.08E-06
T	C	0.05	0.2543445	0.0559347	7.80E-06
T	C	0.05	0.2543445	0.0559347	7.80E-06
T	TGTA	0.06	0.2392891	0.05237515	7.09E-06
T	C	0.06	0.251862	0.05538848	7.80E-06
C	T	0.05	0.2543445	0.0559347	7.80E-06
T	C	0.05	0.2543445	0.0559347	7.80E-06
T	C	0.05	0.2543445	0.0559347	7.80E-06
T	TCTACA	0.05	0.3025179	0.05893433	5.20E-07
G	A	0.05	0.2637919	0.05621658	4.08E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
C	A	0.05	0.2637919	0.05621658	4.08E-06
A	G	0.05	0.2543445	0.0559347	7.80E-06
A	G	0.05	0.2543445	0.0559347	7.80E-06
C	T	0.05	0.2543445	0.0559347	7.80E-06
A	C	0.05	0.2543445	0.0559347	7.80E-06
A	G	0.05	0.2637919	0.05621658	4.08E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
T	C	0.05	0.2637919	0.05621658	4.08E-06
T	C	0.05	0.2637919	0.05621658	4.08E-06
T	G	0.05	0.2543445	0.0559347	7.80E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
C	A	0.05	0.2561818	0.05647934	8.20E-06
T	C	0.05	0.2637919	0.05621658	4.08E-06
TA	T	0.05	0.2637919	0.05621658	4.08E-06
AAAAT	A	0.05	0.2929811	0.0575295	6.32E-07
T	C	0.05	0.2738561	0.05694207	2.39E-06
G	A	0.05	0.2637919	0.05621658	4.08E-06
T	G	0.05	0.2543445	0.0559347	7.80E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
A	G	0.05	0.2772318	0.05855716	3.37E-06
A	G	0.05	0.2543445	0.0559347	7.80E-06
T	C	0.05	0.2637919	0.05621658	4.08E-06
A	C	0.05	0.2637919	0.05621658	4.08E-06
C	T	0.05	0.2637919	0.05621658	4.08E-06
A	G	0.05	0.2838998	0.05723521	1.19E-06
T	TCTG	0.05	0.2734746	0.05856539	4.52E-06
T	A	0.05	0.2637919	0.05621658	4.08E-06
A	T	0.05	0.2637919	0.05621658	4.08E-06
CGT	C	0.05	0.302244	0.06298406	2.51E-06
C	G	0.28	0.1254004	0.02717004	5.77E-06
T	C	0.02	0.4078531	0.08572297	3.03E-06
G	A	0.02	0.4078531	0.08572297	3.03E-06

G	A	0.01	0.5567576	0.1200179	5.19E-06
A	C	0.03	-0.3436172	0.07517116	7.02E-06
G	A	0.24	0.1350247	0.0298332	8.57E-06
C	T	0.47	-0.1125872	0.02483514	8.29E-06
T	C	0.01	0.5722615	0.1189169	2.36E-06
C	T	0.01	0.576162	0.1186743	1.94E-06
A	G	0.01	0.5286919	0.115471	6.79E-06
C	A	0.22	0.1410316	0.0307495	6.56E-06
C	T	0.18	0.1503998	0.0334058	9.51E-06
C	T	0.18	0.1538312	0.03317891	5.25E-06
CA	C	0.18	0.1524498	0.03289214	5.29E-06
AAAG	A	0.18	0.1538312	0.03317891	5.25E-06
T	TAAAGCC	0.18	0.1519196	0.03308306	6.40E-06
AACACACACACAC	A	0.12	0.2134756	0.0419043	6.27E-07
C	T	0.18	0.1545929	0.03289522	3.95E-06
G	T	0.18	0.1512378	0.03311819	7.16E-06
T	C	0.03	0.3736305	0.07918678	3.63E-06
A	G	0.22	-0.1522897	0.03204888	3.12E-06
G	A	0.21	-0.1476656	0.03211528	6.23E-06
G	A	0.23	-0.1512734	0.03154654	2.56E-06
TTTTG	T	0.41	0.1106214	0.02421056	7.08E-06
C	T	0.03	0.3339944	0.07270257	6.34E-06
A	T	0.04	0.2903591	0.06353188	7.05E-06
T	TTTTG	0.1	0.1897677	0.04185642	8.28E-06
C	T	0.11	0.1838165	0.04085518	9.63E-06
C	T	0.25	-0.1355	0.02941714	6.01E-06
A	G	0.27	-0.1330688	0.02856726	4.76E-06
A	C	0.49	-0.1205741	0.02671486	9.06E-06
GA	G	0.03	0.3769197	0.07923559	3.04E-06
A	G	0.44	0.1216818	0.0264782	6.30E-06
A	AT	0.09	0.2157244	0.04609296	4.31E-06
C	T	0.25	-0.1443723	0.03030901	2.96E-06
3CCTATAATCCCAGCA	A	0.05	0.2806465	0.06010476	4.53E-06
T	TAATAAATA	0.01	0.5277361	0.110818	2.97E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
A	G	0.06	0.2277064	0.04916073	5.36E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06
C	A	0.06	0.2277064	0.04916073	5.36E-06
T	G	0.06	0.2277064	0.04916073	5.36E-06
C	A	0.06	0.2400068	0.04952285	2.02E-06
A	G	0.05	0.2544368	0.05405298	3.82E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06
C	T	0.06	0.2336818	0.04934168	3.35E-06
G	C	0.06	0.2683635	0.0513006	3.23E-07
T	TTTATTA	0.04	0.2978899	0.06248442	2.90E-06
G	C	0.06	0.2277064	0.04916073	5.36E-06
T	G	0.06	0.2277064	0.04916073	5.36E-06
T	A	0.06	0.2277064	0.04916073	5.36E-06
G	T	0.06	0.2277064	0.04916073	5.36E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06

C	T	0.06	0.2277064	0.04916073	5.36E-06
T	C	0.06	0.2277064	0.04916073	5.36E-06
T	C	0.06	0.2277064	0.04916073	5.36E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06
T	C	0.06	0.2277064	0.04916073	5.36E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
CA	C	0.06	0.2338049	0.04933958	3.31E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
C	G	0.06	0.2277064	0.04916073	5.36E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
AC	A	0.06	0.2338049	0.04933958	3.31E-06
C	A	0.06	0.233076	0.04932032	3.51E-06
AC	A	0.06	0.2338049	0.04933958	3.31E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06
G	A	0.05	0.2544368	0.05405298	3.82E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
T	C	0.06	0.2277064	0.04916073	5.36E-06
C	G	0.06	0.2277064	0.04916073	5.36E-06
C	A	0.06	0.2277064	0.04916073	5.36E-06
G	T	0.06	0.2277064	0.04916073	5.36E-06
C	T	0.06	0.2277064	0.04916073	5.36E-06
A	G	0.06	0.2277064	0.04916073	5.36E-06
A	C	0.06	0.2277064	0.04916073	5.36E-06
G	A	0.06	0.2277064	0.04916073	5.36E-06
TCTC	T	0.06	0.2299002	0.04917689	4.42E-06
A	AAAAAG	0.06	0.250847	0.05264513	2.94E-06
CTT	C	0.05	0.2580108	0.05563572	5.22E-06
A	G	0.14	-0.1599783	0.03495637	6.85E-06
G	A	0.16	-0.1524633	0.03296673	5.53E-06
A	G	0.5	-0.1215241	0.02384251	6.19E-07
C	G	0.4	-0.1175042	0.02438853	2.30E-06
T	C	0.13	-0.1641101	0.03585138	6.82E-06
G	A	0.44	-0.1222445	0.02454267	1.08E-06
T	C	0.25	-0.1293999	0.02736005	3.45E-06
A	T	0.25	-0.1274159	0.02758643	5.68E-06
A	G	0.27	-0.1191171	0.02635332	8.80E-06
T	G	0.27	-0.12016	0.02667775	9.43E-06
T	A	0.27	-0.1189823	0.02627328	8.47E-06
C	A	0.09	-0.1891261	0.04197392	9.36E-06
TGTG	T	0.08	-0.1997941	0.04431327	9.24E-06
A	G	0.18	0.149161	0.0323765	5.98E-06
T	C	0.01	0.5350185	0.118568	9.10E-06
C	T	0.01	0.5350185	0.118568	9.10E-06
C	G	0.01	0.5350185	0.118568	9.10E-06
C	T	0.01	0.5350185	0.118568	9.10E-06
C	G	0.01	0.5350185	0.118568	9.10E-06
C	T	0.01	0.5350185	0.118568	9.10E-06
C	T	0.01	0.5350185	0.118568	9.10E-06
T	A	0.01	0.5350185	0.118568	9.10E-06

A	G	0.01	0.5350185	0.118568	9.10E-06
A	C	0.01	0.5350185	0.118568	9.10E-06
C	G	0.38	-0.12283	0.02583317	3.08E-06
TAC	T	0.01	0.5089937	0.1133229	9.96E-06
G	T	0.02	0.4251908	0.09313083	7.20E-06
ACAGACAGACACACA	G	0.15	0.1561902	0.03338471	4.35E-06
C	T	0.11	0.1815681	0.03912136	5.14E-06
AC	A	0.02	0.3709271	0.08166252	7.98E-06
G	C	0.02	0.4342074	0.09603921	8.75E-06
C	T	0.03	0.3106088	0.0688418	9.11E-06
A	T	0.03	0.3319749	0.07167542	5.36E-06
G	A	0.03	0.3319749	0.07167542	5.36E-06
G	A	0.03	0.3369341	0.07474818	9.29E-06
C	T	0.01	0.5527548	0.1211834	7.33E-06
G	GT	0.01	0.5122732	0.1084266	3.53E-06
C	CTTAT	0.16	0.1528688	0.03317846	5.97E-06
T	A	0.08	0.2142893	0.04314	1.15E-06
A	G	0.1	0.1921079	0.04257443	9.10E-06
G	A	0.02	0.35233	0.07582426	5.01E-06
A	C	0.02	0.35233	0.07582426	5.01E-06
TC	T	0.02	0.35233	0.07582426	5.01E-06
T	C	0.44	0.1136137	0.02518861	9.17E-06
C	A	0.33	0.1243963	0.02745765	8.40E-06
C	A	0.47	0.1156852	0.02519693	6.42E-06
C	T	0.48	0.1216158	0.02511053	2.05E-06
G	C	0.37	0.1300392	0.02659471	1.65E-06
C	T	0.47	0.118642	0.02514182	3.62E-06
A	G	0.47	0.1227238	0.02512179	1.69E-06
C	A	0.47	0.1170452	0.02522816	5.18E-06
A	T	0.47	0.1170452	0.02522816	5.18E-06
C	T	0.47	0.1144982	0.0251638	7.70E-06
T	G	0.48	0.1138182	0.02517687	8.77E-06
T	A	0.47	0.1159567	0.02524161	6.35E-06
T	A	0.47	0.1170452	0.02522816	5.18E-06
G	C	0.37	0.1230316	0.02651299	5.16E-06
C	T	0.47	0.1170452	0.02522816	5.18E-06
T	C	0.48	0.1154032	0.02497684	5.64E-06
A	G	0.48	0.1167269	0.0250059	4.56E-06
A	T	0.47	0.1163837	0.02529101	6.13E-06
T	C	0.47	0.1165827	0.02524775	5.71E-06
T	C	0.38	0.1220534	0.02662637	6.63E-06
C	CA	0.36	0.1329581	0.0268141	1.20E-06
G	A	0.47	0.1162003	0.02519679	5.86E-06
T	G	0.37	0.1234148	0.02677153	5.91E-06
T	C	0.47	0.1136685	0.02530849	9.97E-06
A	G	0.47	0.1143376	0.02532868	9.02E-06
T	C	0.01	0.5201944	0.1112874	4.43E-06
AAAAGAAAGAAAG	A	0.01	0.5777905	0.1065889	1.26E-07
A	ATT	0.01	0.5666206	0.1208586	4.16E-06
G	A	0.01	0.5803707	0.1142796	6.76E-07

C	T	0.4	-0.110718	0.02415505	6.64E-06
C	G	0.03	0.3632543	0.07300453	1.10E-06
G	A	0.03	0.3632543	0.07300453	1.10E-06
T	C	0.03	0.3473461	0.07228777	2.44E-06
T	C	0.03	0.3473461	0.07228777	2.44E-06
G	A	0.03	0.367578	0.07753563	3.28E-06
G	A	0.03	0.3473461	0.07228777	2.44E-06
C	T	0.03	0.3812452	0.07635505	1.02E-06
C	T	0.03	0.3812452	0.07635505	1.02E-06
C	T	0.03	0.3812452	0.07635505	1.02E-06
A	G	0.03	0.3812452	0.07635505	1.02E-06
C	T	0.03	0.3812452	0.07635505	1.02E-06
A	G	0.03	0.3812452	0.07635505	1.02E-06
T	C	0.03	0.3612305	0.0783308	5.86E-06
T	C	0.03	0.3812452	0.07635505	1.02E-06
TGAAAA	T	0.03	0.3812452	0.07635505	1.02E-06
G	GA	0.03	0.3812452	0.07635505	1.02E-06
C	A	0.03	0.3812452	0.07635505	1.02E-06
C	A	0.03	0.3812452	0.07635505	1.02E-06
C	A	0.03	0.3812452	0.07635505	1.02E-06
G	T	0.03	0.3812452	0.07635505	1.02E-06
T	C	0.03	0.3812452	0.07635505	1.02E-06
G	C	0.03	0.3812452	0.07635505	1.02E-06
C	CT	0.03	0.3812452	0.07635505	1.02E-06
C	T	0.04	-0.2834556	0.06217526	7.41E-06
C	T	0.01	0.5742546	0.1212765	3.36E-06
CATTATTATCT	C	0.49	-0.1098151	0.02436659	9.32E-06
G	C	0.5	-0.1147256	0.02432904	3.67E-06
A	G	0.5	-0.1151603	0.02441352	3.65E-06
G	A	0.5	-0.1142385	0.02439471	4.26E-06
G	A	0.5	-0.1128897	0.02442831	5.62E-06
CAATA	C	0.32	0.1192819	0.02457876	1.96E-06
C	T	0.06	0.2471319	0.05457022	8.47E-06
C	T	0.01	0.5478295	0.1148838	2.89E-06
G	A	0.05	0.2537755	0.05557255	7.16E-06
A	C	0.03	0.3141499	0.06735437	4.64E-06
G	A	0.03	0.3058574	0.06804808	9.83E-06
A	T	0.03	0.3300779	0.06797302	1.93E-06
G	A	0.02	0.4213575	0.09293275	8.27E-06
A	T	0.02	0.4213575	0.09293275	8.27E-06
G	A	0.15	0.1550489	0.03450402	9.87E-06
AT	A	0.2	-0.1394682	0.02963833	3.84E-06
G	A	0.02	0.4450787	0.08636478	4.71E-07
C	T	0.03	0.3993302	0.07780192	5.21E-07
C	T	0.04	0.3010539	0.06189085	1.86E-06
C	A	0.01	0.5786819	0.1176827	1.45E-06
C	T	0.04	0.2785027	0.06130913	7.96E-06
A	G	0.04	0.2816076	0.06212744	8.32E-06
C	T	0.04	0.2785027	0.06130913	7.96E-06
C	T	0.04	0.2816076	0.06212744	8.32E-06

G	A	0.04	0.2785027	0.06130913	7.96E-06
A	C	0.04	0.2816076	0.06212744	8.32E-06
G	A	0.04	0.2785027	0.06130913	7.96E-06
T	C	0.04	0.2816076	0.06212744	8.32E-06
G	A	0.04	0.2785027	0.06130913	7.96E-06
G	A	0.04	0.2816076	0.06212744	8.32E-06
A	G	0.04	0.2816076	0.06212744	8.32E-06
CA	C	0.04	0.2816076	0.06212744	8.32E-06
C	T	0.04	0.2816076	0.06212744	8.32E-06
C	T	0.04	0.2816076	0.06212744	8.32E-06
A	G	0.04	0.2816076	0.06212744	8.32E-06
C	T	0.04	0.2766486	0.06040551	6.75E-06
T	C	0.04	0.2796226	0.06118927	7.06E-06
T	C	0.04	0.2796226	0.06118927	7.06E-06
T	A	0.04	0.2796226	0.06118927	7.06E-06
GTATA	G	0.04	0.2957163	0.06423029	6.07E-06
C	T	0.04	0.2796226	0.06118927	7.06E-06
A	G	0.04	0.2796226	0.06118927	7.06E-06
G	A	0.04	0.2796226	0.06118927	7.06E-06
T	G	0.04	0.2796226	0.06118927	7.06E-06
A	T	0.04	0.2796226	0.06118927	7.06E-06
C	G	0.04	0.2796226	0.06118927	7.06E-06
TTATC	T	0.04	0.2796226	0.06118927	7.06E-06
T	C	0.04	0.2796226	0.06118927	7.06E-06
T	C	0.04	0.2796226	0.06118927	7.06E-06
C	T	0.04	0.2823996	0.0620644	7.70E-06
G	GA	0.04	0.2796226	0.06118927	7.06E-06
T	C	0.04	0.2766486	0.06040551	6.75E-06
A	G	0.04	0.2796226	0.06118927	7.06E-06
G	A	0.04	0.2796226	0.06118927	7.06E-06
G	A	0.04	0.2796226	0.06118927	7.06E-06
T	C	0.04	0.2999495	0.06197699	2.08E-06
G	A	0.04	0.2841	0.06200582	6.70E-06
G	T	0.05	0.2637988	0.05781112	7.27E-06
G	C	0.05	0.2655008	0.05854484	8.23E-06
T	A	0.37	-0.2471254	0.05139787	2.41E-06
G	A	0.02	-0.8213873	0.1828509	9.95E-06
CAGAA	C	0.02	-0.8657454	0.1872471	5.57E-06
C	T	0.02	-0.8152683	0.1813772	9.83E-06
C	T	0.02	-0.8152683	0.1813772	9.83E-06
TACACAC	T	0.24	-0.2888943	0.06392471	8.83E-06
C	G	0.03	-0.7399116	0.1436318	4.77E-07
T	C	0.01	-1.004408	0.2187213	6.40E-06
T	C	0.01	-1.004408	0.2187213	6.40E-06
ATG	A	0.01	-0.9973781	0.2131631	4.34E-06
AG	A	0.01	-1.004408	0.2187213	6.40E-06
A	G	0.01	-1.004408	0.2187213	6.40E-06
C	T	0.01	-1.004408	0.2187213	6.40E-06
C	T	0.35	0.2704211	0.05410374	9.93E-07
A	C	0.36	0.260998	0.05307824	1.45E-06

T	A	0.35	0.2554142	0.05416674	3.68E-06
C	T	0.35	0.2535579	0.05464837	5.18E-06
A	G	0.36	0.2523191	0.0536097	3.83E-06
T	TAC	0.09	-0.4272343	0.09393031	7.77E-06
C	G	0.19	-0.3194923	0.06789075	3.84E-06
CT	C	0.19	-0.3276703	0.06825874	2.50E-06
A	G	0.02	-1.015614	0.2005294	7.24E-07
C	T	0.01	-1.023465	0.2198964	4.85E-06
A	C	0.07	-0.5150801	0.1091364	3.61E-06
GT	G	0.17	0.3363123	0.07225059	4.84E-06
T	G	0.44	0.2398466	0.05174599	5.29E-06
T	C	0.25	0.2885694	0.06229951	5.36E-06
C	CG	0.1	-0.4117548	0.08958193	6.28E-06
C	T	0.08	-0.4596115	0.09728015	3.53E-06
T	A	0.04	-0.6353792	0.1385818	6.61E-06
C	A	0.04	-0.6636163	0.1373519	2.16E-06
AACACACACAC	A	0.15	-0.3541254	0.07584187	4.53E-06
C	CT	0.04	0.634893	0.140159	8.43E-06
C	T	0.04	-0.7372588	0.1477107	1.03E-06
C	A	0.02	0.8829841	0.1840843	2.54E-06
A	G	0.02	0.8479891	0.181119	4.28E-06
A	T	0.14	-0.3552444	0.0770766	5.94E-06
C	G	0.15	-0.3485905	0.07612498	6.78E-06
A	ATGTT	0.27	-0.2558652	0.05659531	8.77E-06
A	G	0.29	0.2565454	0.05694404	9.39E-06
C	T	0.17	0.3164975	0.06646806	2.98E-06
A	T	0.18	0.3042418	0.06530296	4.75E-06
G	GGGAA	0.16	0.3715477	0.07233844	5.13E-07
T	C	0.15	-0.3538855	0.07095226	1.04E-06
A	G	0.15	-0.3625067	0.07217356	8.84E-07
T	C	0.15	-0.3269023	0.07140229	6.81E-06
A	G	0.24	-0.278736	0.0612216	7.62E-06
G	A	0.15	-0.3437642	0.07090937	2.01E-06
T	G	0.25	-0.2777266	0.06114619	7.99E-06
A	G	0.24	-0.2828141	0.06107272	5.39E-06
G	C	0.25	-0.2777266	0.06114619	7.99E-06
A	G	0.15	-0.3269023	0.07140229	6.81E-06
G	T	0.12	-0.3948683	0.0816726	2.13E-06
TAC	T	0.02	0.7756097	0.1648766	3.87E-06
A	G	0.01	-1.099864	0.2332289	3.68E-06
CT	C	0.11	0.3693016	0.08120693	7.79E-06
GA	G	0.01	-1.010957	0.2149923	3.91E-06
A	ATT	0.01	-1.038964	0.2203634	3.69E-06
C	T	0.03	-0.7036965	0.1561308	9.32E-06
T	G	0.34	0.2724088	0.05623613	2.04E-06
C	A	0.35	0.2819206	0.05655294	1.06E-06
T	C	0.34	0.2859999	0.05655312	7.50E-07
T	C	0.35	0.2809874	0.05661137	1.17E-06
A	T	0.34	0.2780008	0.05631379	1.33E-06
T	C	0.35	0.2765209	0.0566008	1.69E-06

T	C	0.35	0.2805174	0.0566285	1.23E-06
C	T	0.35	0.2805174	0.0566285	1.23E-06
CAG	C	0.35	0.2778461	0.05660699	1.52E-06
C	T	0.35	0.2805174	0.0566285	1.23E-06
G	A	0.35	0.2805174	0.0566285	1.23E-06
C	T	0.35	0.273193	0.05664288	2.25E-06
T	C	0.35	0.2805174	0.0566285	1.23E-06
G	A	0.25	0.3035635	0.06229335	1.79E-06
T	C	0.36	0.2887693	0.05608605	4.83E-07
G	A	0.36	0.2844476	0.05645674	8.21E-07
G	C	0.36	0.2669543	0.05699329	4.24E-06
G	T	0.36	0.2923077	0.05645337	4.20E-07
T	C	0.36	0.3013007	0.05645827	1.92E-07
G	A	0.36	0.2932418	0.05667109	4.27E-07
A	G	0.36	0.2826459	0.05685768	1.13E-06
C	G	0.03	-0.8074326	0.1313288	2.86E-09
C	T	0.34	0.266638	0.04389992	5.07E-09
C	A	0.02	0.8734929	0.1443306	5.05E-09
C	G	0.03	-0.7990956	0.1305396	3.35E-09
TTG	T	0.13	-0.2127474	0.04080195	3.51E-07
T	C	0.26	0.1315556	0.02906102	8.53E-06
C	T	0.24	0.1363871	0.02920594	4.52E-06
G	A	0.45	0.1217015	0.02572777	3.44E-06
C	T	0.04	0.3198237	0.07027549	7.67E-06
A	G	0.04	0.3192833	0.0695848	6.50E-06
G	C	0.04	-0.3248742	0.06953535	4.47E-06
C	G	0.01	0.5790889	0.1222721	3.35E-06
A	G	0.01	0.5790889	0.1222721	3.35E-06
ATC	A	0.05	0.2755956	0.06120562	9.49E-06
A	T	0.49	-0.1148125	0.02475103	5.20E-06
G	A	0.27	-0.1368901	0.03038026	9.36E-06
T	C	0.24	-0.1462533	0.02959406	1.29E-06
C	T	0.17	-0.15448	0.03386367	7.32E-06
T	C	0.13	-0.1642542	0.03572209	6.23E-06
G	A	0.2	0.1500594	0.03331984	9.45E-06
T	C	0.2	0.1549317	0.03326809	4.79E-06
G	C	0.2	0.1546393	0.0332735	4.99E-06
A	C	0.2	0.1530424	0.03327775	6.21E-06
A	G	0.2	0.1544778	0.03330607	5.21E-06
T	A	0.2	0.1526418	0.03330499	6.66E-06
C	T	0.2	0.1526418	0.03330499	6.66E-06
A	G	0.19	0.156728	0.03335371	3.96E-06
C	T	0.2	0.155515	0.03283848	3.35E-06
G	A	0.2	0.155515	0.03283848	3.35E-06
C	CATAG	0.2	0.155515	0.03283848	3.35E-06
C	A	0.2	0.1568856	0.03289014	2.87E-06
T	A	0.21	0.1513131	0.03275002	5.64E-06
TG	T	0.14	0.1897815	0.0387343	1.58E-06
C	T	0.08	0.1994339	0.04376436	7.47E-06
C	CAA	0.03	0.3770551	0.07938288	3.15E-06

A	T	0.03	0.3308142	0.07312894	8.65E-06
C	T	0.21	0.1486842	0.03057755	1.87E-06
A	G	0.21	0.1486842	0.03057755	1.87E-06
A	G	0.21	0.1486842	0.03057755	1.87E-06
G	A	0.21	0.1474425	0.03072421	2.51E-06
AG	A	0.21	0.1451883	0.03075208	3.58E-06
G	A	0.21	0.1474425	0.03072421	2.51E-06
T	G	0.21	0.1474425	0.03072421	2.51E-06
C	A	0.02	0.4078626	0.08404909	1.96E-06
G	A	0.13	0.1872447	0.03724924	8.66E-07
G	A	0.13	0.1691443	0.03635921	4.89E-06
A	G	0.14	0.17298	0.0358928	2.29E-06
CGT	C	0.06	0.2616937	0.05608044	4.59E-06
T	C	0.18	-0.3579064	0.07015574	6.13E-07
C	T	0.18	-0.3333185	0.0705283	3.53E-06
GATT	G	0.18	-0.3327567	0.07031498	3.43E-06
C	T	0.18	-0.3327567	0.07031498	3.43E-06
C	T	0.18	-0.3466445	0.07013496	1.30E-06
G	T	0.18	-0.3290849	0.06942903	3.32E-06
C	T	0.18	-0.331694	0.07034534	3.71E-06
G	A	0.18	-0.322326	0.06993914	5.99E-06
C	T	0.18	-0.3283704	0.06991093	4.03E-06
A	G	0.18	-0.331694	0.07034534	3.71E-06
C	A	0.19	-0.3630248	0.0672318	1.42E-07
C	T	0.19	-0.3523124	0.06786145	3.97E-07
C	T	0.18	-0.3336064	0.07037859	3.32E-06
G	A	0.03	-0.7674506	0.1692056	8.27E-06
C	T	0.42	0.2502765	0.05367219	4.70E-06
T	TAGAGAGAG	0.01	-1.061172	0.2323354	7.19E-06
G	C	0.1	0.3903497	0.08558098	7.39E-06
G	A	0.14	-0.3565825	0.07636963	4.57E-06
C	CGTGTGTGTGT	0.01	-1.220478	0.2693364	8.42E-06
G	A	0.46	-0.2440257	0.053577	7.61E-06
C	G	0.46	-0.2441632	0.05349114	7.28E-06
CA	C	0.47	-0.2394405	0.05326225	9.86E-06
A	C	0.46	-0.2440257	0.053577	7.61E-06
C	T	0.46	-0.2434557	0.05347364	7.67E-06
T	TA	0.46	-0.2461914	0.05321891	5.54E-06
C	T	0.46	-0.2440257	0.053577	7.61E-06
T	A	0.46	-0.244273	0.05354803	7.37E-06
T	A	0.46	-0.244273	0.05354803	7.37E-06
G	T	0.46	-0.2440257	0.053577	7.61E-06
C	T	0.46	-0.2440257	0.053577	7.61E-06
C	A	0.46	-0.2466003	0.05353226	6.04E-06
C	T	0.46	-0.2460216	0.05360609	6.52E-06
T	TACCC	0.08	-0.5121805	0.1034418	1.25E-06
T	.GATATAGATATAGAT.	0.02	-0.9265836	0.2048637	8.75E-06
ATAGT	A	0.03	0.6991356	0.146673	2.94E-06
C	T	0.01	1.210122	0.2584327	4.30E-06
A	G	0.01	1.339002	0.2720127	1.43E-06

G	A	0.01	1.210122	0.2584327	4.30E-06
G	A	0.01	1.179782	0.2374934	1.16E-06
C	T	0.01	1.286789	0.2586106	1.11E-06
G	A	0.02	-0.8650035	0.1897274	7.46E-06
C	T	0.02	-0.884152	0.1865436	3.32E-06
G	GAGAGAGAGAGAC	0.01	-1.103019	0.2419462	7.46E-06
T	C	0.31	-0.2683384	0.05971213	9.93E-06
C	G	0.31	-0.284226	0.05951033	2.81E-06
T	C	0.3	-0.2811302	0.05969475	3.81E-06
T	C	0.31	-0.2874262	0.05966436	2.33E-06
G	A	0.31	-0.2916732	0.0595473	1.60E-06
TTGTG	T	0.06	0.5191007	0.1115569	4.91E-06
A	G	0.04	-0.6707237	0.1455761	6.02E-06
A	C	0.03	-0.7372485	0.1578731	4.55E-06
G	C	0.01	-1.097171	0.2424028	8.62E-06
C	T	0.05	0.6262359	0.1283797	1.76E-06
A	T	0.39	-0.2573546	0.05451703	3.62E-06
A	G	0.47	-0.2638607	0.05518322	2.75E-06
G	A	0.38	-0.2472611	0.0550209	9.93E-06
C	T	0.38	-0.2565045	0.05473881	4.24E-06
T	A	0.43	-0.2721014	0.05443739	1.00E-06
T	A	0.43	-0.2718323	0.05444978	1.03E-06
G	T	0.43	-0.2722494	0.05442859	9.85E-07
G	A	0.38	-0.2565045	0.05473881	4.24E-06
A	AAATC	0.41	-0.2501937	0.05516162	8.27E-06
C	T	0.43	-0.2673629	0.05431867	1.43E-06
T	A	0.43	-0.2720597	0.05439627	9.87E-07
C	A	0.43	-0.2719356	0.05437244	9.88E-07
C	T	0.43	-0.2694367	0.05429028	1.18E-06
C	T	0.43	-0.2730308	0.0544969	9.48E-07
C	T	0.43	-0.2686765	0.05433083	1.29E-06
G	T	0.38	-0.2565045	0.05473881	4.24E-06
C	A	0.43	-0.263772	0.05450786	2.11E-06
A	T	0.43	-0.2730308	0.0544969	9.48E-07
C	A	0.45	-0.2660223	0.05386566	1.33E-06
C	A	0.43	-0.2720597	0.05439627	9.87E-07
A	T	0.43	-0.2730308	0.0544969	9.48E-07
G	A	0.43	-0.2730308	0.0544969	9.48E-07
A	G	0.43	-0.2604486	0.05456805	2.86E-06
T	G	0.38	-0.2513258	0.054541	6.01E-06
G	A	0.42	-0.2693968	0.0544219	1.26E-06
T	C	0.38	-0.2571293	0.05479587	4.11E-06
G	A	0.45	-0.2668274	0.05393738	1.28E-06
T	G	0.43	-0.2706882	0.05437348	1.10E-06
G	GA	0.43	-0.2738797	0.0546495	9.41E-07
C	A	0.45	-0.2660223	0.05386566	1.33E-06
T	A	0.43	-0.2730308	0.0544969	9.48E-07
C	T	0.43	-0.2729392	0.05435724	8.99E-07
C	T	0.43	-0.2722494	0.05442859	9.85E-07
G	A	0.43	-0.2720597	0.05439627	9.87E-07

TTTC	T	0.43	-0.2689985	0.05446138	1.32E-06
G	T	0.45	-0.2643338	0.05378675	1.49E-06
G	A	0.43	-0.2722494	0.05442859	9.85E-07
G	C	0.43	-0.2730308	0.0544969	9.48E-07
T	C	0.43	-0.2690644	0.05447039	1.32E-06
A	C	0.43	-0.260462	0.05436639	2.63E-06
C	T	0.43	-0.2682628	0.05460475	1.50E-06
G	A	0.41	-0.2705741	0.05396225	9.30E-07
A	G	0.43	-0.2688198	0.05441654	1.32E-06
G	A	0.45	-0.2626208	0.05384866	1.77E-06
T	G	0.43	-0.2425888	0.05351571	8.37E-06
G	A	0.43	-0.2688198	0.05441654	1.32E-06
G	T	0.43	-0.2695856	0.05448427	1.27E-06
T	C	0.42	-0.2532614	0.05348184	3.39E-06
T	C	0.42	-0.2507128	0.05341604	4.09E-06
G	A	0.43	-0.2688198	0.05441654	1.32E-06
A	G	0.38	-0.2532109	0.05473972	5.55E-06
T	C	0.43	-0.2695856	0.05448427	1.27E-06
T	G	0.45	-0.266296	0.05382225	1.27E-06
A	G	0.35	-0.2610273	0.05177964	8.18E-07
G	A	0.44	-0.2665131	0.05359256	1.13E-06
T	C	0.43	-0.2560953	0.05431967	3.72E-06
T	G	0.43	-0.2637511	0.05417475	1.84E-06
TATA	T	0.43	-0.2618224	0.05421264	2.20E-06
T	C	0.43	-0.2637511	0.05417475	1.84E-06
A	G	0.43	-0.2539902	0.05431181	4.42E-06
A	G	0.43	-0.2637511	0.05417475	1.84E-06
TC	T	0.43	-0.2639301	0.05422001	1.85E-06
T	C	0.45	-0.2577177	0.05361404	2.44E-06
T	A	0.38	-0.2483047	0.05449739	7.55E-06
A	G	0.43	-0.2637511	0.05417475	1.84E-06
C	T	0.43	-0.2540048	0.05399676	3.90E-06
G	T	0.43	-0.2637511	0.05417475	1.84E-06
T	A	0.45	-0.2584895	0.05368462	2.36E-06
A	G	0.38	-0.2489038	0.05455355	7.35E-06
A	G	0.45	-0.2576551	0.05359366	2.44E-06
A	T	0.43	-0.2635702	0.05414258	1.84E-06
A	G	0.45	-0.2552181	0.05359009	3.00E-06
G	A	0.43	-0.2649804	0.0541163	1.62E-06
T	C	0.43	-0.2649804	0.0541163	1.62E-06
C	G	0.34	-0.2528823	0.05577327	8.33E-06
G	A	0.42	-0.2674147	0.05402072	1.26E-06
C	CT	0.09	0.4445915	0.08778404	7.31E-07
T	C	0.49	0.2400192	0.05177677	5.31E-06
ATAG	A	0.5	0.2347017	0.05203794	9.25E-06
GT	G	0.01	-1.28485	0.2678641	2.56E-06
T	TAC	0.08	-0.4695418	0.104158	9.34E-06
G	T	0.31	0.2771543	0.05991843	5.55E-06
G	A	0.3	0.2797516	0.06002368	4.75E-06
C	G	0.33	0.2579333	0.05629924	6.76E-06

A	C	0.31	0.2854933	0.06062424	3.81E-06
C	T	0.31	0.2807417	0.06008627	4.50E-06
AAC	A	0.31	0.3054102	0.06104153	9.78E-07
T	C	0.42	0.2511229	0.05559466	8.97E-06
T	G	0.23	0.2690932	0.05942745	8.55E-06
GT	G	0.05	-0.5993069	0.1286481	4.79E-06
GC	G	0.01	-1.150464	0.24232	3.20E-06
CTGAA	C	0.07	0.5076277	0.111434	7.58E-06
A	G	0.07	0.5382996	0.1117877	2.35E-06
T	TCA	0.08	0.4736638	0.1046406	8.61E-06
T	C	0.01	-1.192463	0.25578	4.72E-06
T	C	0.02	-0.8268105	0.1766586	4.35E-06
G	A	0.02	-0.8326619	0.1546526	1.54E-07
A	ACACACACACACACA	0.02	-0.8906046	0.1930312	5.85E-06
T	A	0.04	-0.7136031	0.1424137	9.44E-07
GGTGTGTGT	G	0.04	-0.6138334	0.1321948	5.13E-06
A	AC	0.31	0.2773635	0.06011774	5.86E-06
C	G	0.31	0.2720894	0.06021302	8.91E-06
GGTGGATGGACAGAT	T	0.02	0.9609091	0.2072042	5.27E-06
G	A	0.11	-0.3937853	0.08541836	5.95E-06
C	A	0.11	-0.4195497	0.08695562	2.25E-06
A	G	0.1	-0.4787493	0.09241008	4.18E-07
C	A	0.02	0.9877601	0.212272	4.91E-06
G	C	0.04	-0.3856146	0.06468463	8.52E-09
G	A	0.01	-0.711474	0.1064941	1.76E-10
C	T	0.02	-0.3515374	0.05877958	7.60E-09
T	C	0.01	0.4463913	0.07244664	2.63E-09
G	A	0.02	0.810477	0.1350246	6.22E-09
CG	C	0.02	0.810477	0.1350246	6.22E-09
T	C	0.02	0.810477	0.1350246	6.22E-09
G	A	0.02	0.810477	0.1350246	6.22E-09
G	A	0.02	0.810477	0.1350246	6.22E-09
C	A	0.02	0.4369545	0.06348814	5.71E-11
T	A	0.01	-0.8939963	0.1454998	3.35E-09
T	C	0.01	-1.000251	0.1498117	1.78E-10
T	TA	0.14	-0.1475658	0.02435289	5.56E-09
T	C	0.01	-0.7964696	0.1285242	2.39E-09
ATTT	A	0.01	0.8824004	0.1439429	4.16E-09
T	C	0.03	0.384419	0.07893729	1.81E-06
C	T	0.1	0.1908267	0.04229307	9.11E-06
C	T	0.01	0.5029591	0.1097701	6.69E-06
G	A	0.21	0.1627072	0.03262467	1.04E-06
A	G	0.25	-0.1412989	0.02990629	3.53E-06
C	G	0.28	-0.1311051	0.02918085	9.91E-06
A	AT	0.48	0.1195443	0.02560191	4.53E-06
T	G	0.48	0.1152376	0.02531539	7.64E-06
CACAAT	C	0.3	0.1286336	0.02732732	3.82E-06
G	T	0.32	-0.1391103	0.02796594	1.11E-06
G	A	0.31	0.1306058	0.02692627	1.98E-06
G	A	0.31	0.1319334	0.02676569	1.37E-06

T	C	0.16	0.1720597	0.03621417	3.13E-06
C	T	0.04	0.3056558	0.06544277	4.50E-06
T	TTGTGTGTGTGTG	0.04	0.2914933	0.0641471	7.91E-06
G	A	0.02	0.4695723	0.09649913	1.84E-06
C	T	0.04	0.3206716	0.06783957	3.49E-06
A	T	0.34	0.1217897	0.02661555	6.87E-06
G	T	0.26	-0.1411732	0.03021837	4.48E-06
T	A	0.11	-0.188577	0.04136216	7.40E-06
C	A	0.11	-0.1907381	0.04144636	6.12E-06
C	T	0.11	-0.188577	0.04136216	7.40E-06
A	G	0.11	-0.185108	0.04079394	8.14E-06
G	A	0.02	0.9123202	0.199269	6.80E-06
C	CA	0.03	0.7613245	0.1521789	9.71E-07
C	T	0.22	0.3008522	0.06553929	6.45E-06
T	TCACACA	0.01	1.061636	0.2271385	4.44E-06
T	C	0.02	0.8628318	0.1917478	9.61E-06
A	T	0.02	0.8628318	0.1917478	9.61E-06
G	T	0.02	0.8628318	0.1917478	9.61E-06
G	T	0.02	1.066541	0.219145	1.84E-06
T	C	0.02	1.066541	0.219145	1.84E-06
C	CA	0.02	0.8183544	0.1588592	4.76E-07
T	C	0.03	0.5970548	0.1306757	7.09E-06
G	T	0.02	0.9379569	0.2008398	4.51E-06
C	G	0.02	0.970447	0.2039098	3.02E-06
AACAG	A	0.02	0.970447	0.2039098	3.02E-06
T	C	0.02	0.970447	0.2039098	3.02E-06
C	T	0.02	0.970447	0.2039098	3.02E-06
G	A	0.02	0.970447	0.2039098	3.02E-06
G	A	0.02	0.970447	0.2039098	3.02E-06
T	A	0.02	1.02441	0.1993011	5.04E-07
G	GA	0.02	0.8363642	0.1850945	8.85E-06
A	G	0.02	0.8363642	0.1850945	8.85E-06
C	T	0.02	0.8363642	0.1850945	8.85E-06
C	G	0.02	0.8363642	0.1850945	8.85E-06
G	A	0.02	0.8363642	0.1850945	8.85E-06
T	G	0.02	0.8363642	0.1850945	8.85E-06
T	C	0.02	0.8363642	0.1850945	8.85E-06
G	C	0.02	0.8363642	0.1850945	8.85E-06
G	A	0.02	0.8363642	0.1850945	8.85E-06
A	G	0.02	0.8363642	0.1850945	8.85E-06
T	C	0.02	0.842423	0.1842532	6.99E-06
G	A	0.01	1.166519	0.2586165	9.17E-06
TCACACACA	T	0.03	0.6932703	0.1516838	7.04E-06
T	C	0.01	1.185502	0.2237224	2.32E-07
T	C	0.01	1.13422	0.2302437	1.39E-06
C	A	0.02	0.8243858	0.1805342	7.17E-06
C	A	0.06	0.531742	0.1132175	4.01E-06
A	G	0.08	0.4534534	0.09610746	3.63E-06
G	C	0.06	0.5273438	0.1128626	4.47E-06
T	C	0.06	0.5209017	0.1115341	4.51E-06

G	A	0.15	0.3445856	0.07286105	3.45E-06
A	G	0.17	0.3335692	0.07095951	3.93E-06
C	T	0.06	0.5505695	0.1155299	2.93E-06
G	C	0.01	1.030212	0.2286366	9.36E-06
T	TTTC	0.05	0.5485533	0.1219814	9.73E-06
G	A	0.01	1.011317	0.2123475	2.97E-06
C	T	0.02	1.003887	0.2149331	4.50E-06
G	A	0.01	1.109643	0.2242123	1.25E-06
AAAAAAAAAAGAG	A	0.01	1.050651	0.2253646	4.68E-06
A	G	0.01	1.262163	0.2763677	7.15E-06
G	A	0.01	1.055229	0.2266522	4.82E-06
C	CA	0.01	1.050347	0.2170792	2.09E-06
G	A	0.02	0.8714458	0.1864088	4.42E-06
C	T	0.01	1.169369	0.2560203	7.14E-06
GGTGTGTGTGTGT	G	0.01	1.348291	0.2436624	7.14E-08
A	C	0.08	0.4383756	0.09730719	9.40E-06
T	A	0.01	1.181633	0.2572917	6.39E-06
C	T	0.01	1.181633	0.2572917	6.39E-06
G	T	0.01	1.181633	0.2572917	6.39E-06
C	T	0.02	0.9963385	0.2081941	2.67E-06
A	G	0.03	0.6650576	0.1457338	7.26E-06
CT	C	0.06	0.5336902	0.1046999	6.19E-07
ATAGT	A	0.02	0.9101049	0.2013408	8.79E-06
C	A	0.05	0.5919459	0.127959	5.50E-06
.CAAAAAGCCTTTTCT	T	0.02	0.9442406	0.2034663	5.15E-06
C	T	0.05	0.571082	0.1210019	3.61E-06
C	T	0.01	1.172434	0.2575746	7.65E-06
G	A	0.01	1.172434	0.2575746	7.65E-06
C	G	0.01	1.172434	0.2575746	7.65E-06
T	C	0.01	1.213218	0.224649	1.40E-07
A	G	0.27	0.2658366	0.05694853	4.56E-06
C	CCACACACA	0.08	-0.4556725	0.09734158	4.30E-06
G	GA	0.01	1.141919	0.2538274	9.66E-06
G	GAAGA	0.08	0.5088423	0.09467223	1.59E-07
T	C	0.02	0.7912376	0.175186	8.93E-06
C	T	0.35	0.2928113	0.05331478	8.81E-08
C	T	0.36	0.2674484	0.05286062	7.41E-07
C	T	0.35	0.2735634	0.05351413	5.76E-07
G	A	0.35	0.2711996	0.0535891	7.37E-07
T	G	0.38	0.2409181	0.05252544	6.56E-06
G	C	0.35	0.2691808	0.05259542	5.60E-07
A	G	0.34	0.2430914	0.05320644	7.10E-06
C	A	0.02	0.74847	0.1530356	1.64E-06
A	AT	0.01	1.216201	0.2661134	7.05E-06
A	T	0.04	0.6936405	0.132956	3.46E-07
G	A	0.04	0.6936405	0.132956	3.46E-07
C	T	0.04	0.6936405	0.132956	3.46E-07
AT	A	0.03	0.7116604	0.1486356	2.64E-06
G	A	0.04	0.6936405	0.132956	3.46E-07
A	G	0.04	0.6936405	0.132956	3.46E-07

C	G	0.04	0.6936405	0.132956	3.46E-07
G	A	0.04	0.6936405	0.132956	3.46E-07
T	C	0.04	0.7063201	0.1334393	2.38E-07
A	G	0.04	0.6936405	0.132956	3.46E-07
G	C	0.04	0.6936405	0.132956	3.46E-07
T	C	0.04	0.6936405	0.132956	3.46E-07
G	A	0.04	0.6936405	0.132956	3.46E-07
G	A	0.05	0.6679878	0.1160081	2.23E-08
T	A	0.05	0.6098473	0.1195148	6.03E-07
T	TCACACACACA	0.02	0.7949266	0.1714914	5.28E-06
G	A	0.06	0.5301642	0.1124007	3.66E-06
A	G	0.05	0.5996567	0.1236224	1.98E-06
T	G	0.03	0.7488127	0.160647	4.70E-06
ATG	A	0.01	1.185947	0.2522857	3.93E-06
A	T	0.01	1.220171	0.2612135	4.49E-06
A	C	0.09	0.4260287	0.09225821	5.71E-06
T	C	0.09	0.4144237	0.09097662	7.53E-06
A	T	0.04	0.6162887	0.135593	7.88E-06
A	G	0.01	1.269118	0.2288012	6.67E-08
A	G	0.02	1.065838	0.2173747	1.55E-06
T	C	0.02	1.077591	0.2072684	3.78E-07
A	G	0.02	1.077591	0.2072684	3.78E-07
C	T	0.02	1.077591	0.2072684	3.78E-07
GT	G	0.01	0.9884777	0.2158867	6.79E-06
G	C	0.13	0.4188986	0.07821457	1.75E-07
G	GCCTCC	0.18	0.2997379	0.06599043	7.98E-06
C	T	0.13	0.4188986	0.07821457	1.75E-07
AAGGTAATTAT	A	0.09	0.4314803	0.09515197	8.25E-06
G	A	0.03	0.7003932	0.1536004	7.38E-06
T	G	0.01	-1.038231	0.2301832	9.18E-06
T	C	0.03	0.7620757	0.165218	5.84E-06
TTAGA	T	0.25	0.3079045	0.06249943	1.39E-06
ATC	A	0.01	1.187047	0.2421368	1.56E-06
A	G	0.16	0.3353143	0.07250512	5.53E-06
A	G	0.23	0.2994168	0.0627013	2.80E-06
C	T	0.16	0.3366885	0.07260197	5.23E-06
T	C	0.23	0.3069437	0.06270278	1.61E-06
A	G	0.16	0.3366885	0.07260197	5.23E-06
T	A	0.16	0.3391757	0.07122258	2.97E-06
C	CA	0.17	0.3119249	0.06868777	8.02E-06
G	T	0.16	0.3407006	0.07245071	3.90E-06
G	A	0.16	0.3350072	0.07322429	6.90E-06
C	CT	0.16	0.335631	0.07273579	5.80E-06
G	A	0.16	0.3393365	0.07285345	4.77E-06
C	A	0.15	0.3437848	0.07480511	6.30E-06
T	C	0.16	0.3311061	0.07267906	7.52E-06
G	GCACACA	0.01	1.23413	0.2646048	4.64E-06
C	T	0.02	0.9294991	0.1916754	1.99E-06
T	C	0.12	-0.3604869	0.07851626	6.42E-06
G	T	0.22	0.3149993	0.06540129	2.32E-06

A	G	0.49	-0.2583677	0.05463314	3.46E-06
G	A	0.22	0.3121408	0.06485365	2.36E-06
G	A	0.22	0.3149993	0.06540129	2.32E-06
C	T	0.4	0.2545195	0.05358118	3.14E-06
C	T	0.43	0.239906	0.05014897	2.69E-06
A	G	0.22	0.3155636	0.06483604	1.83E-06
C	T	0.22	0.3121408	0.06485365	2.36E-06
C	T	0.22	0.3091092	0.06483659	2.90E-06
G	C	0.4	0.254994	0.05350947	2.93E-06
TGTA	T	0.49	-0.2471044	0.05452356	8.35E-06
C	CTG	0.4	0.2470872	0.05347763	5.64E-06
T	C	0.22	0.3121408	0.06485365	2.36E-06
G	GATAT	0.31	0.261719	0.05794987	8.94E-06
T	G	0.4	0.2420751	0.05358322	8.89E-06
T	TAC	0.39	0.2449934	0.05355456	6.92E-06
C	T	0.4	0.2545195	0.05358118	3.14E-06
C	T	0.4	0.2502486	0.05356086	4.47E-06
C	T	0.22	0.3121408	0.06485365	2.36E-06
C	T	0.23	0.3022288	0.06440757	4.08E-06
G	A	0.5	-0.251533	0.05369111	4.23E-06
C	T	0.22	0.3121408	0.06485365	2.36E-06
A	G	0.22	0.3076728	0.06492064	3.30E-06
C	T	0.49	-0.2492772	0.05477722	7.69E-06
G	A	0.49	-0.2492772	0.05477722	7.69E-06
G	A	0.49	-0.2526773	0.05461895	5.50E-06
G	A	0.49	-0.2526773	0.05461895	5.50E-06
A	G	0.22	0.3261846	0.06553812	1.10E-06
C	T	0.49	-0.2492772	0.05477722	7.69E-06
C	A	0.31	0.2686435	0.05909045	7.84E-06
T	A	0.31	0.2686435	0.05909045	7.84E-06
G	A	0.31	0.2686435	0.05909045	7.84E-06
G	A	0.31	0.2686435	0.05909045	7.84E-06
G	C	0.49	-0.2453455	0.05400465	7.95E-06
A	G	0.48	-0.2494911	0.05412612	5.92E-06
G	A	0.22	0.3133666	0.06454629	1.94E-06
G	A	0.48	-0.2502697	0.05427934	5.89E-06
G	A	0.22	0.3133666	0.06454629	1.94E-06
C	T	0.48	-0.2439091	0.05414597	9.41E-06
A	G	0.31	0.2696672	0.05904999	7.16E-06
G	T	0.49	0.2463931	0.05428644	8.10E-06
G	A	0.48	-0.2485841	0.05428053	6.76E-06
C	T	0.48	-0.2433343	0.05407414	9.61E-06
A	G	0.22	0.3133666	0.06454629	1.94E-06
T	C	0.22	0.3133666	0.06454629	1.94E-06
T	C	0.49	0.2545076	0.05442544	4.39E-06
G	C	0.3	0.2680086	0.05888812	7.67E-06
C	A	0.22	0.3178573	0.0645163	1.39E-06
A	G	0.48	-0.2558848	0.0541318	3.49E-06
A	C	0.49	0.2586604	0.05426971	2.92E-06
T	G	0.21	0.3463281	0.06487144	1.90E-07

C	T	0.22	0.3133666	0.06454629	1.94E-06
A	G	0.22	0.3133666	0.06454629	1.94E-06
G	GTCA	0.48	0.2535832	0.05437527	4.65E-06
G	A	0.31	0.2718742	0.05905864	6.08E-06
G	A	0.4	0.2654673	0.05326202	1.06E-06
C	G	0.41	0.2478762	0.05352717	5.38E-06
G	A	0.4	0.243789	0.05349206	7.46E-06
A	G	0.4	0.2643978	0.05348709	1.29E-06
C	T	0.41	0.2442074	0.05361615	7.55E-06
A	C	0.43	0.24303	0.0532468	7.24E-06
CT	C	0.49	-0.253348	0.05419771	4.43E-06
T	C	0.41	0.2681419	0.05329842	8.50E-07
T	G	0.41	0.2680023	0.05325908	8.45E-07
T	G	0.41	0.2681419	0.05329842	8.50E-07
C	T	0.4	0.2459905	0.05348622	6.20E-06
A	G	0.43	0.24303	0.0532468	7.24E-06
G	A	0.4	0.2504918	0.05340038	4.11E-06
G	A	0.46	0.2789801	0.05305373	2.83E-07
A	G	0.45	0.2588514	0.05313975	1.80E-06
T	A	0.04	0.6273362	0.1380116	7.86E-06
G	GAGAAAGAA	0.02	0.6427435	0.1424129	9.06E-06
A	G	0.04	0.6295516	0.1394929	9.07E-06
A	C	0.06	0.5315323	0.1156804	6.32E-06
A	C	0.06	0.5219141	0.1124963	5.18E-06
A	G	0.08	0.4727091	0.09923651	2.96E-06
TA	T	0.08	0.4493594	0.09716497	5.53E-06
A	G	0.07	0.4719187	0.1037568	7.77E-06
A	G	0.08	0.4447367	0.09763934	7.55E-06
A	T	0.08	0.4473983	0.09841668	7.85E-06
T	C	0.08	0.4383244	0.09616254	7.44E-06
A	G	0.08	0.441231	0.09807661	9.65E-06
G	A	0.08	0.4447367	0.09763934	7.55E-06
G	A	0.08	0.4648725	0.09876889	3.83E-06
T	GATAGATAGATAGAT	0.02	0.9300836	0.1893106	1.48E-06
AC	A	0.15	0.3785001	0.08093603	4.39E-06
G	T	0.15	0.3586016	0.07685889	4.61E-06
T	C	0.15	0.352099	0.07815569	9.39E-06
ATTTATTTT	A	0.14	0.3976737	0.08141734	1.69E-06
CT	C	0.15	0.3621922	0.07994825	8.41E-06
AG	A	0.06	0.5316657	0.1167562	7.59E-06
T	C	0.05	0.5643711	0.1207253	4.42E-06
CAT	C	0.06	0.5316657	0.1167562	7.59E-06
CT	C	0.06	0.5316657	0.1167562	7.59E-06
G	A	0.05	0.5651801	0.120614	4.21E-06
C	T	0.06	0.541203	0.1185856	7.25E-06
G	A	0.05	0.591333	0.122922	2.38E-06
GGTGTGTGTGTGT	G	0.01	1.134001	0.1879566	5.21E-09
A	G	0.01	0.7363454	0.1202035	3.12E-09
G	A	0.01	1.188764	0.1985646	7.30E-09
G	GAAGA	0.08	0.4524544	0.07624334	9.32E-09

T	A	0.03	0.5618908	0.0925546	4.80E-09
GGTGTGTGTGTGT	G	0.01	1.157912	0.1928263	6.14E-09
TTAGA	T	0.25	0.3060549	0.05114457	6.87E-09
ATTTATTTT	A	0.14	0.3926915	0.06596556	8.11E-09
G	A	0.05	0.5441659	0.08926412	4.57E-09
GGTGTGTGTGTGT	G	0.01	1.095924	0.1606464	6.11E-11
GGTGTGTGTGTGT	G	0.01	1.115895	0.1784005	1.56E-09
C	T	0.01	0.8293836	0.1390805	7.58E-09
GGTGTGTGTGTGT	G	0.01	1.00414	0.1515624	1.91E-10
GGTGTGTGTGTGT	G	0.01	1.178588	0.1921286	2.99E-09
GGTGTGTGTGTGT	G	0.01	1.100309	0.1714176	6.15E-10
G	GAAGA	0.08	0.3859664	0.06387802	4.93E-09
GGTGTGTGTGTGT	G	0.01	1.285708	0.1938742	1.88E-10
GGTGTGTGTGTGT	G	0.01	1.206058	0.1965861	2.96E-09
GGTGTGTGTGTGT	G	0.01	1.076298	0.1756046	3.15E-09
C	A	0.02	0.7824931	0.1246906	1.51E-09
GGTGTGTGTGTGT	G	0.01	1.051808	0.1596549	2.65E-10
GGTGTGTGTGTGT	G	0.01	1.118778	0.1702512	2.65E-10
G	GAAGA	0.08	0.412043	0.06596801	1.65E-09
G	GAAGA	0.08	0.4015135	0.06429284	2.06E-09
G	GAAGA	0.08	0.4309305	0.07271035	9.46E-09
G	GAAGA	0.08	0.455713	0.07424715	2.93E-09
T	G	0.21	0.3157413	0.05099458	2.18E-09
T	C	0.41	0.2478783	0.04178018	8.87E-09
T	G	0.41	0.2475666	0.04174954	9.02E-09
T	G	0.41	0.2478783	0.04178018	8.87E-09
G	A	0.46	0.263904	0.04151432	8.70E-10
A	G	0.46	0.2492542	0.04158833	6.41E-09
T	G	0.21	0.2249253	0.03753705	6.44E-09
A	G	0.01	0.9677666	0.1626711	8.72E-09
G	A	0.46	0.2263668	0.03778273	6.54E-09
GGTGTGTGTGTGT	G	0.01	1.123201	0.1723343	4.46E-10
A	G	0.07	0.451722	0.07478526	5.86E-09
T	C	0.02	1.018387	0.1638445	2.02E-09
G	GAAGA	0.08	0.4596734	0.07696747	7.17E-09
A	G	0.47	-0.213008	0.03584794	8.52E-09
C	T	0.01	0.8846471	0.1489302	8.53E-09
GGTGTGTGTGTGT	G	0.01	1.036642	0.1629293	8.41E-10
G	A	0.05	0.4790263	0.07963014	5.68E-09
A	AT	0.01	0.9526908	0.1514648	1.26E-09
ATTTATTTT	A	0.14	0.3829764	0.06460013	9.06E-09
GGTGTGTGTGTGT	G	0.01	1.005951	0.1641114	3.09E-09
C	T	0.01	0.813406	0.1375848	9.94E-09
GGTGTGTGTGTGT	G	0.01	0.9449801	0.1565044	5.05E-09
GGTGTGTGTGTGT	G	0.01	0.8988792	0.1432294	1.37E-09
G	A	0.05	0.4783454	0.07992757	6.74E-09
C	A	0.02	0.718919	0.1155391	2.39E-09
G	GCACACA	0.01	0.9737058	0.1578347	2.69E-09
C	T	0.01	0.788769	0.1324252	8.44E-09
C	A	0.02	0.8516067	0.1420347	7.27E-09

C	T	0.01	1.094666	0.172882	1.19E-09
C	T	0.35	0.2187235	0.03562533	2.89E-09
GGTGTGTGTGTGT	G	0.01	0.9459555	0.1590187	8.23E-09
T	GATAGATAGATAGAT	0.02	0.7183071	0.1189458	5.07E-09
C	A	0.01	-0.936339	0.1567767	8.34E-09
A	C	0.01	-0.936339	0.1567767	8.34E-09
G	A	0.01	-0.936339	0.1567767	8.34E-09
A	ATATC	0.03	-0.3947076	0.06610178	7.32E-09
A	G	0.26	-0.1660834	0.0278896	9.05E-09
C	A	0.01	-1.065259	0.1662345	7.95E-10
A	C	0.01	-1.065259	0.1662345	7.95E-10
G	A	0.01	-1.065259	0.1662345	7.95E-10
C	CA	0.03	-0.4858045	0.08048028	5.50E-09
C	T	0.29	0.1622337	0.02664334	3.85E-09
T	C	0.05	-0.5298434	0.08603888	2.70E-09
T	C	0.01	-0.9847699	0.1585953	2.52E-09
A	G	0.06	-0.2280058	0.04976297	6.69E-06
C	A	0.01	-0.4697188	0.09884689	3.11E-06
C	T	0.01	-0.5005292	0.09874274	7.08E-07
T	TAA	0.11	-0.1796688	0.03927454	6.91E-06
C	T	0.23	-0.1285942	0.02633362	1.70E-06
C	T	0.08	-0.2019863	0.04428959	7.36E-06
G	A	0.05	-0.2364164	0.05235524	8.97E-06
G	A	0.01	-0.5248331	0.1165947	9.55E-06
A	G	0.01	-0.5248331	0.1165947	9.55E-06
C	G	0.01	-0.5251609	0.1129331	4.94E-06
A	G	0.01	-0.5026352	0.1100095	7.09E-06
C	T	0.06	-0.2148998	0.04735469	8.12E-06
C	A	0.03	-0.3116973	0.06629296	3.91E-06
G	T	0.1	-0.1695159	0.03764865	9.49E-06
T	A	0.09	-0.1803024	0.03971806	8.07E-06
C	T	0.08	-0.1861136	0.0413351	9.49E-06
T	C	0.1	-0.177363	0.03832291	5.45E-06
CATAG	C	0.1	-0.1868798	0.03935233	3.16E-06
G	A	0.03	-0.323498	0.0653032	1.22E-06
TTC	T	0.03	-0.3023654	0.06531999	5.43E-06
A	C	0.01	-0.5005773	0.1075293	4.82E-06
G	A	0.39	0.1096538	0.02395046	6.80E-06
T	C	0.37	0.1081576	0.02402394	9.51E-06
G	T	0.01	-0.5185236	0.113467	7.06E-06
T	C	0.01	-0.5185236	0.113467	7.06E-06
T	TTGTG	0.08	0.2067864	0.04467837	5.44E-06
A	G	0.4	-0.1077303	0.02395504	9.72E-06
AAAAAT	A	0.02	-0.4526301	0.09274522	1.72E-06
G	A	0.02	-0.4242074	0.09110261	4.80E-06
C	A	0.02	-0.4242074	0.09110261	4.80E-06
A	AAAAACAAAAC	0.03	-0.3136412	0.06750976	5.03E-06
A	G	0.02	-0.4198144	0.09163414	6.71E-06
C	G	0.08	-0.1916504	0.04263831	9.82E-06
A	T	0.04	-0.29576	0.06266749	3.61E-06

A	G	0.09	-0.1832931	0.04008479	6.97E-06
T	TGATAGATAGATA	0.06	-0.2405142	0.05050547	2.97E-06
A	AAC	0.02	-0.3814635	0.08476227	9.59E-06
G	A	0.01	-0.5076838	0.110282	6.08E-06
G	A	0.19	-0.1431453	0.02976843	2.40E-06
G	A	0.02	-0.3900727	0.08633622	8.87E-06
C	T	0.11	-0.1763099	0.03825557	5.94E-06
G	C	0.07	-0.2246928	0.04644108	2.10E-06
G	A	0.05	-0.2577198	0.05216725	1.30E-06
A	G	0.05	-0.2514642	0.05256834	2.70E-06
G	A	0.06	-0.2600764	0.05116172	6.61E-07
A	ACCAT	0.23	-0.1318903	0.02787735	3.43E-06
A	G	0.01	-0.5120862	0.0986241	3.90E-07
G	A	0.01	-0.5573002	0.1007256	7.15E-08
G	A	0.01	-0.5120862	0.0986241	3.90E-07
C	A	0.01	-0.5066968	0.1010681	9.23E-07
C	CTGTG	0.08	-0.214049	0.04413063	1.98E-06
T	C	0.07	-0.1945612	0.04313881	9.19E-06
C	CTA	0.03	-0.3212617	0.06662684	2.26E-06
A	C	0.21	-0.1347087	0.02932472	6.35E-06
G	A	0.05	-0.2525346	0.05597189	9.12E-06
T	C	0.02	-0.3500706	0.07755239	9.03E-06
G	A	0.01	-0.5176722	0.1133132	7.10E-06
C	T	0.01	-0.4782327	0.09896674	2.15E-06
T	C	0.02	-0.3743829	0.08093747	5.51E-06
G	A	0.02	-0.4011244	0.08619221	4.86E-06
A	G	0.02	-0.4011244	0.08619221	4.86E-06
A	G	0.02	-0.4011244	0.08619221	4.86E-06
C	A	0.02	-0.4011244	0.08619221	4.86E-06
G	A	0.02	-0.4011244	0.08619221	4.86E-06
C	T	0.02	-0.4011244	0.08619221	4.86E-06
A	G	0.02	-0.4011244	0.08619221	4.86E-06
G	T	0.02	-0.4011244	0.08619221	4.86E-06
T	A	0.02	-0.4011244	0.08619221	4.86E-06
C	T	0.02	-0.4011244	0.08619221	4.86E-06
GC	G	0.02	-0.4011244	0.08619221	4.86E-06
T	G	0.02	-0.4011244	0.08619221	4.86E-06
T	A	0.02	-0.4011244	0.08619221	4.86E-06
C	T	0.02	-0.4011244	0.08619221	4.86E-06
A	C	0.02	-0.4011244	0.08619221	4.86E-06
C	T	0.01	-0.5378716	0.1172285	6.51E-06
G	C	0.01	-0.5378716	0.1172285	6.51E-06
A	T	0.04	-0.2868062	0.06140625	4.50E-06
G	A	0.04	-0.2868062	0.06140625	4.50E-06
G	GTCAA	0.04	-0.2868062	0.06140625	4.50E-06
A	G	0.04	-0.2868062	0.06140625	4.50E-06
G	A	0.23	0.1291515	0.02770879	4.70E-06
CAGAGAGAGAGAG	C	0.16	0.1564141	0.03453195	8.43E-06
A	AC	0.01	-0.5635393	0.1060705	2.16E-07
GGTGT	G	0.3	0.2948453	0.05692691	4.24E-07

G	A	0.34	0.2443132	0.0543195	9.81E-06
AAGAGAG	A	0.06	0.5481191	0.1172939	4.51E-06
C	CT	0.2	0.3154541	0.06628731	3.06E-06
G	A	0.39	0.2624399	0.05571776	3.82E-06
G	A	0.1	-0.439435	0.09269648	3.33E-06
CAGAG	C	0.15	0.359897	0.07710988	4.63E-06
C	T	0.07	0.4702887	0.1023331	6.37E-06
C	T	0.11	0.4322089	0.08999511	2.51E-06
G	T	0.11	0.4347413	0.08964103	2.02E-06
T	C	0.05	0.6058506	0.1253444	2.18E-06
AGTGTGT	A	0.03	0.6766617	0.1505381	9.93E-06
T	C	0.02	0.9309716	0.1917509	1.97E-06
A	C	0.17	-0.317398	0.06771034	4.23E-06
G	A	0.01	1.096765	0.2315618	3.39E-06
C	T	0.35	0.2552909	0.0564925	8.94E-06
G	C	0.09	-0.4360376	0.09530766	6.98E-06
G	A	0.19	-0.3597626	0.06994495	5.04E-07
G	A	0.19	-0.3481508	0.06990986	1.10E-06
C	T	0.21	-0.2979298	0.06583378	8.69E-06
T	G	0.39	-0.2506748	0.05380955	4.82E-06
C	A	0.01	1.072842	0.2343363	6.89E-06
G	A	0.14	0.367988	0.07722529	2.98E-06
T	A	0.14	0.362807	0.07726172	4.07E-06
G	A	0.14	0.362807	0.07726172	4.07E-06
T	G	0.14	0.3701756	0.07709253	2.52E-06
T	C	0.14	0.3701756	0.07709253	2.52E-06
A	G	0.14	0.362807	0.07726172	4.07E-06
A	G	0.14	0.3554701	0.07746147	6.57E-06
T	C	0.14	0.3548868	0.07761423	7.06E-06
AAAG	A	0.02	0.933445	0.2050487	7.72E-06
C	T	0.03	0.7365947	0.1631273	9.08E-06
C	T	0.14	-0.3467915	0.07707179	9.73E-06
G	A	0.12	0.4084882	0.08612028	3.29E-06
C	T	0.29	0.2689052	0.05946652	8.82E-06
A	G	0.02	0.9181363	0.201027	7.23E-06
A	ATATATGTGTGTG	0.02	0.8825569	0.1646595	1.75E-07
T	TTTATG	0.11	-0.4388343	0.08811318	1.10E-06
T	C	0.13	0.3553911	0.07860119	8.84E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
A	G	0.01	1.195159	0.2608608	6.78E-06
T	C	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
T	C	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06

C	T	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
C	A	0.01	1.195159	0.2608608	6.78E-06
A	G	0.01	1.195159	0.2608608	6.78E-06
G	C	0.01	1.195159	0.2608608	6.78E-06
A	C	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
CGTCT	C	0.01	1.195159	0.2608608	6.78E-06
G	A	0.01	1.195159	0.2608608	6.78E-06
C	T	0.01	1.195159	0.2608608	6.78E-06
A	T	0.02	-0.9640452	0.206938	4.81E-06
T	C	0.01	1.404007	0.2795319	8.99E-07
C	T	0.01	1.118368	0.2474313	8.90E-06
G	C	0.13	0.3826114	0.08008775	2.81E-06
C	T	0.13	0.3826114	0.08008775	2.81E-06
G	C	0.02	0.8444641	0.1813985	4.89E-06
C	T	0.01	1.292487	0.2597255	1.12E-06
C	A	0.04	0.5985648	0.1280825	4.51E-06
C	G	0.04	0.5985648	0.1280825	4.51E-06
A	T	0.04	0.5985648	0.1280825	4.51E-06
C	A	0.04	0.5985648	0.1280825	4.51E-06
G	C	0.04	0.5985648	0.1280825	4.51E-06
C	G	0.04	0.5985648	0.1280825	4.51E-06
A	G	0.04	0.5884897	0.1302079	8.91E-06
AAAAGAAAG	A	0.02	0.9420992	0.1919745	1.54E-06
T	C	0.02	1.03586	0.2186911	3.39E-06
C	T	0.02	1.03586	0.2186911	3.39E-06
CTTT	C	0.09	-0.4229055	0.08865905	2.91E-06
C	T	0.1	-0.4362534	0.0850822	5.45E-07
G	GA	0.02	-0.8404428	0.1368203	3.10E-09
G	A	0.01	0.9782735	0.1647152	8.96E-09
A	ATATATGTGTGTG	0.02	0.6184557	0.1016967	4.12E-09
T	A	0.04	0.2798375	0.05715683	1.60E-06
A	iTGTGTGTGTGTGTG	0.01	0.4876894	0.1010424	2.21E-06
TA	T	0.02	0.4308205	0.09439254	7.24E-06
C	T	0.01	0.4684418	0.09716464	2.27E-06
G	T	0.05	0.2428327	0.05110389	3.12E-06
A	G	0.23	0.1197854	0.02648599	8.70E-06
G	A	0.01	0.4704148	0.1047504	9.99E-06
T	C	0.01	0.4492335	0.09934491	8.72E-06
T	A	0.02	0.4319126	0.0946231	7.23E-06
G	A	0.21	0.1257582	0.02789137	9.24E-06
T	C	0.02	0.371968	0.0810206	6.43E-06
T	C	0.04	0.2797939	0.06210591	9.39E-06
C	T	0.07	0.2043185	0.04503114	8.15E-06
T	G	0.07	0.2043185	0.04503114	8.15E-06
A	T	0.07	0.2110269	0.04413323	2.72E-06

C	A	0.07	0.198468	0.04344039	7.09E-06
G	C	0.07	0.198468	0.04344039	7.09E-06
G	A	0.07	0.2043185	0.04503114	8.15E-06
T	C	0.04	0.2553677	0.05625764	8.08E-06
G	A	0.04	0.2553677	0.05625764	8.08E-06
C	G	0.04	0.2553677	0.05625764	8.08E-06
G	A	0.05	0.2500491	0.051624	2.04E-06
G	A	0.04	0.2553677	0.05625764	8.08E-06
G	T	0.05	0.2644355	0.05454219	2.00E-06
G	A	0.05	0.2447895	0.05245496	4.58E-06
C	G	0.46	0.1052929	0.02293007	6.40E-06
A	C	0.46	0.1033596	0.02291488	9.17E-06
A	T	0.46	0.1032742	0.02295113	9.61E-06
T	G	0.46	0.1037943	0.02292888	8.54E-06
C	T	0.46	0.1037943	0.02292888	8.54E-06
G	C	0.46	0.1051155	0.02278976	5.84E-06
T	C	0.46	0.1029377	0.02285855	9.47E-06
A	G	0.47	0.1051716	0.02285595	6.13E-06
G	A	0.47	0.1041739	0.02282608	7.25E-06
C	T	0.46	0.1054906	0.0228947	5.97E-06
A	G	0.49	0.10105	0.0223983	9.13E-06
A	G	0.46	0.1042884	0.02300599	8.30E-06
T	G	0.47	0.1029827	0.02284694	9.29E-06
T	TTCTC	0.11	0.1802253	0.0385771	4.48E-06
C	T	0.02	0.3478336	0.07689646	8.67E-06
G	A	0.02	0.3860402	0.08562036	9.24E-06
C	T	0.01	0.5456287	0.1135038	2.42E-06
T	G	0.02	0.4258698	0.09044761	3.80E-06
G	A	0.02	0.4306079	0.08660062	1.12E-06
G	GGT	0.15	0.1596384	0.03503813	7.50E-06
G	A	0.02	0.3748084	0.07641918	1.54E-06
G	A	0.08	0.1905304	0.04108811	5.23E-06
T	G	0.09	0.1812943	0.0400234	8.43E-06
A	G	0.09	0.1812943	0.0400234	8.43E-06
G	A	0.09	0.1812943	0.0400234	8.43E-06
GTGGAATGGAA	G	0.05	0.23968	0.05292398	8.46E-06
G	C	0.04	0.2579142	0.05643226	7.05E-06
C	CA	0.02	0.400703	0.08032861	1.04E-06
GA	G	0.5	-0.1074608	0.02331256	5.92E-06
A	G	0.5	0.1063431	0.02332514	7.40E-06
T	A	0.13	0.1687249	0.03648729	5.54E-06
G	A	0.02	0.4037998	0.08001932	7.89E-07
A	G	0.02	0.3885932	0.08126116	2.71E-06
A	G	0.02	0.4483253	0.09247667	2.00E-06
A	T	0.26	-0.1181082	0.0262992	9.99E-06
A	AT	0.21	0.1375682	0.0300711	6.91E-06
C	T	0.1	0.1952198	0.03854002	7.20E-07
G	A	0.1	0.1888348	0.0379337	1.09E-06
C	G	0.1	0.1902528	0.03970652	2.60E-06
TC	T	0.1	0.1963787	0.03881865	7.43E-07

G	A	0.1	0.1914785	0.0392375	1.73E-06
G	A	0.1	0.1952198	0.03854002	7.20E-07
CTGTGTGTG	C	0.03	0.3108631	0.06563528	3.35E-06
G	C	0.07	0.2025128	0.04504527	9.78E-06
G	A	0.08	0.1915204	0.04255643	9.59E-06
A	G	0.08	0.2051271	0.04166052	1.41E-06
G	A	0.08	0.2051271	0.04166052	1.41E-06
G	C	0.12	0.1774344	0.03443274	4.72E-07
G	A	0.11	0.1624112	0.03610756	9.69E-06
C	T	0.11	0.1624112	0.03610756	9.69E-06
GA	G	0.1	0.1720921	0.036758	4.28E-06
T	C	0.12	0.1585785	0.03457601	6.56E-06
G	T	0.02	0.4123375	0.0909651	8.31E-06
T	G	0.09	0.2001694	0.04050018	1.29E-06
G	C	0.05	0.2500671	0.05141982	1.87E-06
T	C	0.03	0.3489667	0.07351426	3.19E-06
C	T	0.03	0.302512	0.06180091	1.61E-06
T	C	0.03	0.2930234	0.06238472	4.00E-06
C	T	0.06	0.2687051	0.04918555	1.02E-07
A	G	0.35	-0.1056828	0.0230347	6.51E-06
T	C	0.01	-0.5960172	0.09903233	5.62E-09
TG	T	0.01	0.8326883	0.1382188	5.43E-09
G	A	0.02	-0.8493914	0.1352976	1.72E-09
C	T	0.25	0.3077146	0.06397902	2.64E-06
A	AC	0.02	0.9526053	0.1999864	3.25E-06
G	A	0.02	0.8798955	0.1901579	5.95E-06
C	A	0.05	0.6921043	0.129014	1.95E-07
AGTGTGTGT	A	0.02	1.10784	0.2421813	7.49E-06
T	C	0.02	1.022843	0.2268923	9.99E-06
T	C	0.02	1.022843	0.2268923	9.99E-06
C	T	0.22	-0.3071142	0.06727319	7.80E-06
C	T	0.11	0.4330661	0.09057498	3.00E-06
A	T	0.12	0.4101579	0.08781876	4.91E-06
A	G	0.12	0.4030845	0.08625923	4.86E-06
A	T	0.02	1.1306	0.2493099	8.90E-06
G	A	0.03	0.7361334	0.1619282	8.48E-06
T	C	0.17	-0.3279456	0.07250753	9.37E-06
G	A	0.07	-0.5298288	0.1159035	7.60E-06
C	G	0.02	0.9881452	0.2029062	2.01E-06
A	C	0.03	0.8143414	0.168325	2.32E-06
G	A	0.02	1.147343	0.1985643	2.46E-08
T	C	0.02	1.038898	0.1971653	3.09E-07
T	C	0.03	0.7842757	0.1659304	3.83E-06
C	CGT	0.02	0.9314382	0.2058148	9.26E-06
C	T	0.24	0.3035594	0.06664402	8.16E-06
A	G	0.25	0.2975301	0.06597197	9.91E-06
A	T	0.43	-0.2614668	0.05706957	7.26E-06
T	TA	0.41	-0.2703327	0.05854094	6.20E-06
G	A	0.41	-0.2753782	0.05860951	4.34E-06
G	A	0.4	-0.2700732	0.05946422	8.64E-06

C	T	0.4	-0.273954	0.05937858	6.31E-06
A	T	0.39	-0.2738962	0.0595791	6.78E-06
G	A	0.4	-0.2861033	0.05891882	2.14E-06
CT	C	0.44	-0.2627337	0.05818555	9.68E-06
C	T	0.4	-0.2863318	0.05936023	2.48E-06
C	T	0.4	-0.2727576	0.05933674	6.80E-06
C	G	0.39	-0.2758776	0.05957695	5.86E-06
C	T	0.4	-0.286305	0.05916076	2.30E-06
A	C	0.39	-0.2758776	0.05957695	5.86E-06
T	C	0.39	-0.2758776	0.05957695	5.86E-06
C	A	0.39	-0.2758776	0.05957695	5.86E-06
G	C	0.39	-0.2758776	0.05957695	5.86E-06
C	G	0.4	-0.2710198	0.05950105	8.16E-06
C	T	0.39	-0.2746169	0.05966204	6.62E-06
G	A	0.39	-0.2758776	0.05957695	5.86E-06
TA	T	0.4	-0.2824378	0.05908665	3.01E-06
G	A	0.39	-0.2758776	0.05957695	5.86E-06
T	A	0.39	-0.2758776	0.05957695	5.86E-06
C	T	0.4	-0.2710198	0.05950105	8.16E-06
T	C	0.39	-0.2758776	0.05957695	5.86E-06
T	G	0.08	0.4685479	0.1007671	5.38E-06
TA	T	0.05	0.6105092	0.1277012	3.00E-06
T	C	0.08	0.4697582	0.1008191	5.16E-06
G	C	0.08	0.4833483	0.102981	4.44E-06
G	C	0.08	0.4754406	0.102266	5.40E-06
C	T	0.08	0.468769	0.1027556	7.91E-06
C	T	0.07	0.4799606	0.1044568	6.85E-06
T	C	0.08	0.4713551	0.1033929	8.02E-06
A	C	0.2	-0.3329899	0.0713544	5.00E-06
A	G	0.02	-0.961662	0.2101674	7.45E-06
T	TTC	0.35	0.2706264	0.05890574	6.87E-06
A	G	0.35	0.2843274	0.0591082	2.63E-06
A	G	0.34	0.2871659	0.05897992	2.02E-06
T	G	0.35	0.2843274	0.0591082	2.63E-06
A	T	0.35	0.2843274	0.0591082	2.63E-06
G	A	0.35	0.2663947	0.05906091	9.89E-06
T	C	0.35	0.2684308	0.05892233	8.13E-06
T	G	0.35	0.2740352	0.05890658	5.33E-06
C	T	0.42	0.2409162	0.05218735	6.24E-06
A	T	0.35	0.2886685	0.05806098	1.26E-06
A	T	0.35	0.2740352	0.05890658	5.33E-06
A	G	0.35	0.2718004	0.05848957	5.45E-06
C	G	0.35	0.2670444	0.0586942	8.34E-06
G	A	0.35	0.2740352	0.05890658	5.33E-06
G	C	0.35	0.2741787	0.05894234	5.34E-06
A	T	0.35	0.2741787	0.05894234	5.34E-06
G	A	0.35	0.2740352	0.05890658	5.33E-06
T	A	0.45	0.2705903	0.05641487	2.80E-06
T	C	0.45	0.2705903	0.05641487	2.80E-06
T	A	0.45	0.2705903	0.05641487	2.80E-06

GA	G	0.45	0.2705903	0.05641487	2.80E-06
G	A	0.44	0.2541834	0.05586544	8.34E-06
T	TTC	0.02	0.9708862	0.1887371	5.61E-07
T	TACAC	0.02	0.9938514	0.2034127	1.87E-06
A	G	0.02	0.9493922	0.2021751	4.39E-06
C	T	0.02	-0.7969621	0.1332443	8.98E-09
G	A	0.02	-0.7804663	0.126922	3.72E-09
C	T	0.01	0.7689254	0.1272815	6.43E-09
A	G	0.06	-0.3066042	0.05126761	8.67E-09
G	A	0.02	0.521013	0.08227477	1.33E-09
T	C	0.02	0.4927252	0.08229866	8.38E-09
C	T	0.17	0.2370984	0.03976995	9.52E-09
A	C	0.01	-1.120502	0.1784413	1.78E-09
A	G	0.01	-1.120502	0.1784413	1.78E-09
C	A	0.01	-1.120502	0.1784413	1.78E-09
G	A	0.01	-1.052083	0.1730692	5.19E-09
G	T	0.01	1.156704	0.2513742	6.13E-06
G	A	0.01	1.161	0.2453597	3.41E-06
C	G	0.04	0.6293934	0.1355638	5.10E-06
C	T	0.08	0.4541071	0.09982424	7.74E-06
G	A	0.08	0.4541071	0.09982424	7.74E-06
C	T	0.08	0.4581699	0.09996867	6.66E-06
G	A	0.07	0.4551808	0.09864011	5.79E-06
A	C	0.06	0.5464886	0.1151481	3.20E-06
T	C	0.07	0.4877121	0.1056733	5.77E-06
A	G	0.06	0.4949559	0.1093241	8.51E-06
G	C	0.01	1.165534	0.2574476	8.52E-06
C	T	0.36	-0.2550622	0.0552394	5.72E-06
A	AG	0.01	1.024296	0.2165071	3.43E-06
G	A	0.04	0.6400427	0.1416214	8.82E-06
C	G	0.12	0.3716581	0.0803474	5.51E-06
A	G	0.12	0.3664836	0.08044735	7.52E-06
G	A	0.08	0.4456822	0.0962898	5.44E-06
G	A	0.11	-0.3739551	0.08219821	7.73E-06
A	G	0.11	-0.3742283	0.08240592	8.01E-06
C	G	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.4183574	0.08354474	9.49E-07
A	G	0.11	-0.3872321	0.08258558	4.15E-06
C	T	0.1	-0.3962655	0.08350766	3.21E-06
A	G	0.09	-0.4393097	0.0894465	1.49E-06
C	G	0.11	-0.3742283	0.08240592	8.01E-06
A	T	0.11	-0.3742283	0.08240592	8.01E-06
T	G	0.11	-0.3742283	0.08240592	8.01E-06
T	C	0.11	-0.3742283	0.08240592	8.01E-06
TCTGAGAGA	T	0.11	-0.3715298	0.08261376	9.72E-06
T	C	0.11	-0.3815281	0.08248914	5.52E-06
G	C	0.11	-0.3742283	0.08240592	8.01E-06
T	C	0.11	-0.3742283	0.08240592	8.01E-06
G	C	0.11	-0.3742283	0.08240592	8.01E-06

T	C	0.11	-0.3742283	0.08240592	8.01E-06
T	C	0.11	-0.3742283	0.08240592	8.01E-06
C	T	0.11	-0.3752679	0.08254934	7.85E-06
T	C	0.11	-0.3742283	0.08240592	8.01E-06
A	G	0.11	-0.3742283	0.08240592	8.01E-06
T	G	0.11	-0.3739551	0.08219821	7.73E-06
A	G	0.11	-0.3727653	0.08254411	8.95E-06
T	C	0.11	-0.3742283	0.08240592	8.01E-06
G	T	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3843904	0.08297211	5.34E-06
T	G	0.11	-0.3843904	0.08297211	5.34E-06
C	T	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3742283	0.08240592	8.01E-06
C	T	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3742283	0.08240592	8.01E-06
C	G	0.1	-0.3919204	0.08343276	3.99E-06
G	A	0.11	-0.3827317	0.08283661	5.64E-06
G	T	0.11	-0.3742283	0.08240592	8.01E-06
G	A	0.11	-0.3804128	0.08254685	5.95E-06
A	G	0.11	-0.3742283	0.08240592	8.01E-06
C	A	0.11	-0.3742283	0.08240592	8.01E-06
C	A	0.11	-0.3752679	0.08254934	7.85E-06
A	G	0.11	-0.3742283	0.08240592	8.01E-06
G	C	0.11	-0.3695914	0.08209513	9.52E-06
C	G	0.11	-0.3695914	0.08209513	9.52E-06
C	G	0.11	-0.3695914	0.08209513	9.52E-06
T	A	0.11	-0.3695914	0.08209513	9.52E-06
G	C	0.11	-0.3695914	0.08209513	9.52E-06
C	T	0.11	-0.3754819	0.08259157	7.84E-06
A	C	0.11	-0.3791217	0.08275137	6.71E-06
G	A	0.11	-0.3765482	0.08273782	7.67E-06
A	G	0.11	-0.383184	0.08236371	4.89E-06
G	A	0.11	-0.383184	0.08236371	4.89E-06
T	A	0.11	-0.383184	0.08236371	4.89E-06
T	TAC	0.11	-0.4126894	0.09009257	6.73E-06
T	C	0.11	-0.3842659	0.082508	4.78E-06
C	T	0.11	-0.3785758	0.0822854	6.15E-06
C	A	0.11	-0.3828373	0.08215304	4.72E-06
G	GA	0.11	-0.3805356	0.08257304	5.95E-06
G	A	0.11	-0.383184	0.08236371	4.89E-06
C	T	0.11	-0.3842659	0.082508	4.78E-06
G	A	0.11	-0.383184	0.08236371	4.89E-06
C	T	0.11	-0.3828373	0.08215304	4.72E-06
G	A	0.11	-0.3842659	0.082508	4.78E-06
C	G	0.11	-0.3810471	0.08248302	5.66E-06
T	C	0.11	-0.383184	0.08236371	4.89E-06
A	T	0.04	0.6291042	0.1370062	6.41E-06
C	T	0.11	0.4027541	0.08935197	9.29E-06
A	T	0.07	-0.4556913	0.0985207	5.52E-06

G	T	0.29	-0.260074	0.05653408	6.17E-06
T	C	0.01	1.11045	0.2453854	8.59E-06
G	A	0.09	-0.4340606	0.09262251	4.19E-06
T	G	0.26	-0.2577884	0.05678086	8.05E-06
G	A	0.02	-0.9706608	0.20512	3.41E-06
G	A	0.07	0.4771721	0.1035353	5.94E-06
C	T	0.09	0.4663004	0.09252718	8.15E-07
A	G	0.04	0.6556636	0.1451556	8.91E-06
G	A	0.05	-0.5563461	0.1222714	7.70E-06
G	A	0.05	-0.5563461	0.1222714	7.70E-06
G	A	0.05	-0.5541685	0.1211447	6.92E-06
G	A	0.03	-0.6396823	0.1013987	1.28E-09
A	G	0.09	0.3989475	0.06512346	3.84E-09
A	G	0.09	0.3921627	0.06416817	4.15E-09
A	G	0.1	0.3814635	0.06326368	6.41E-09
G	A	0.1	-0.4237094	0.07081221	6.87E-09
A	T	0.02	0.9845005	0.1953052	8.11E-07
ATCTG	A	0.01	1.210822	0.2514524	2.33E-06
G	C	0.03	0.864127	0.1583897	1.06E-07
AAGAGAG	A	0.06	0.5709146	0.1165787	1.59E-06
C	T	0.18	0.2988685	0.06654997	1.00E-05
T	G	0.41	-0.2554359	0.05374328	3.10E-06
C	T	0.11	0.3906655	0.08308921	3.91E-06
T	C	0.09	0.4731087	0.09220382	5.26E-07
C	T	0.11	0.3960393	0.08326249	3.05E-06
C	T	0.01	1.245058	0.2563869	1.93E-06
G	A	0.01	1.104659	0.23851	5.37E-06
G	T	0.02	0.8030698	0.1769168	8.09E-06
A	T	0.02	0.9305152	0.1972444	3.64E-06
C	T	0.02	0.9183491	0.1868971	1.48E-06
A	G	0.02	0.9183491	0.1868971	1.48E-06
T	A	0.03	0.7806469	0.1638251	2.93E-06
C	T	0.03	0.7904283	0.1625348	1.87E-06
G	C	0.03	0.7904283	0.1625348	1.87E-06
C	T	0.03	0.7904283	0.1625348	1.87E-06
G	C	0.03	0.7904283	0.1625348	1.87E-06
T	A	0.43	0.2593785	0.0539221	2.39E-06
TAC	T	0.02	0.9026042	0.1934647	4.61E-06
T	C	0.01	1.141801	0.2539619	9.78E-06
T	C	0.39	-0.2453376	0.05313231	5.72E-06
C	T	0.39	-0.2430607	0.0531828	7.05E-06
C	T	0.38	-0.2403661	0.0532976	9.20E-06
C	T	0.38	-0.2403661	0.0532976	9.20E-06
T	C	0.39	-0.2391666	0.05322896	9.90E-06
G	T	0.27	0.2872481	0.05780171	1.14E-06
G	A	0.02	0.9451968	0.2011454	3.96E-06
A	G	0.02	1.017069	0.2263893	9.92E-06
G	C	0.02	1.005572	0.22327	9.45E-06
A	G	0.01	1.116147	0.2358084	3.39E-06
CAGAG	C	0.15	0.352137	0.07699548	6.95E-06

A	G	0.02	0.791412	0.1747731	8.49E-06
A	C	0.02	0.8275416	0.1772884	4.56E-06
C	T	0.02	0.7975024	0.1719648	5.22E-06
G	T	0.06	0.5506261	0.1111726	1.23E-06
G	C	0.03	0.720435	0.1602028	9.73E-06
C	T	0.12	0.3961832	0.08376964	3.45E-06
T	C	0.22	0.3000911	0.06562741	6.98E-06
C	T	0.17	0.362045	0.06929527	3.34E-07
C	T	0.12	0.3672511	0.07603912	2.18E-06
G	A	0.16	0.3470882	0.07090312	1.61E-06
C	T	0.16	0.3436239	0.07123157	2.24E-06
C	T	0.16	0.3478271	0.07100676	1.59E-06
C	T	0.16	0.3436239	0.07123157	2.24E-06
C	T	0.16	0.3450977	0.07085052	1.80E-06
G	A	0.18	0.3098791	0.0677223	6.88E-06
A	T	0.15	0.3280447	0.07173801	6.97E-06
A	G	0.15	0.3280447	0.07173801	6.97E-06
G	C	0.16	0.3251406	0.07179276	8.46E-06
T	TTTTG	0.09	-0.4418361	0.09651804	6.82E-06
A	G	0.01	1.051303	0.2166031	1.95E-06
G	A	0.04	0.6501734	0.1311334	1.20E-06
G	A	0.04	0.6501734	0.1311334	1.20E-06
C	T	0.04	0.6501734	0.1311334	1.20E-06
T	TTTG	0.01	1.170768	0.2536731	5.77E-06
TTC	T	0.25	0.28015	0.06129596	7.04E-06
A	T	0.23	-0.2775881	0.06154088	9.17E-06
G	A	0.12	0.3987473	0.08546224	4.60E-06
AG	A	0.01	1.252468	0.2589981	2.12E-06
G	GT	0.15	0.3234817	0.07105755	7.63E-06
C	T	0.25	0.2780139	0.06110584	7.72E-06
GTGCTATA	G	0.01	1.150761	0.2375546	2.04E-06
C	T	0.11	0.4205196	0.08678221	2.03E-06
C	A	0.01	1.202108	0.2547658	3.63E-06
G	T	0.01	1.269932	0.2555956	1.14E-06
C	A	0.01	1.295449	0.2626223	1.35E-06
AG	A	0.02	0.8285394	0.1820091	7.64E-06
T	C	0.01	1.203819	0.2648177	7.85E-06
G	C	0.13	0.3839448	0.07916678	1.99E-06
C	T	0.13	0.3839448	0.07916678	1.99E-06
T	A	0.02	0.9243789	0.205383	9.57E-06
T	C	0.01	1.304884	0.2618601	1.07E-06
G	A	0.03	0.7807849	0.1570947	1.13E-06
C	A	0.03	0.7788905	0.1542716	7.80E-07
C	T	0.03	0.7807849	0.1570947	1.13E-06
T	TAAGGAAGGAAGGA	0.04	0.6161005	0.133603	5.87E-06
G	A	0.19	0.3144475	0.06507428	2.16E-06
C	T	0.18	-0.3243273	0.06976562	4.97E-06
C	T	0.05	0.5719555	0.1236408	5.50E-06
G	A	0.06	0.543213	0.1182794	6.38E-06
C	T	0.24	0.2962429	0.06306346	3.99E-06

G	GAA	0.02	0.8156786	0.1643536	1.17E-06
AAAAGAAAG	A	0.02	0.8977557	0.1906675	3.80E-06
CGTGTGTGTGTGT	C	0.03	0.7329939	0.1599422	6.67E-06
T	A	0.04	0.3918013	0.06550321	6.83E-09
G	A	0.04	0.4160191	0.06823915	3.66E-09
A	G	0.01	0.8134865	0.1369086	8.78E-09
T	G	0.1	-0.3128954	0.05213345	6.30E-09
A	G	0.45	-0.1153919	0.0235386	1.56E-06
ATGT	A	0.46	0.1139692	0.02392462	2.95E-06
C	T	0.01	0.5350338	0.118719	9.32E-06
C	A	0.02	0.375483	0.08346241	9.65E-06
T	A	0.02	0.4278528	0.09053678	3.51E-06
T	G	0.02	0.3913366	0.08440864	5.25E-06
G	C	0.02	0.3913366	0.08440864	5.25E-06
G	A	0.03	0.3408706	0.07100957	2.50E-06
C	A	0.03	0.3408706	0.07100957	2.50E-06
A	G	0.46	-0.1144841	0.02380316	2.39E-06
CGT	C	0.01	0.5072114	0.1044689	1.94E-06
G	A	0.23	0.1372627	0.02893387	3.23E-06
C	T	0.06	0.2280115	0.04934619	5.63E-06
C	T	0.02	0.4285038	0.09538007	9.92E-06
A	C	0.41	0.1111707	0.02478817	9.33E-06
C	T	0.39	0.1145012	0.02529726	8.56E-06
C	A	0.4	0.1192217	0.02515369	3.29E-06
G	T	0.39	0.119339	0.02504064	2.92E-06
C	T	0.38	0.1189656	0.0254771	4.52E-06
C	A	0.39	0.1172061	0.02536393	5.62E-06
G	C	0.37	0.1224769	0.02559169	2.67E-06
A	ATGTGTG	0.08	0.2370903	0.04575412	4.11E-07
T	A	0.02	0.4589779	0.09664767	3.16E-06
TC	T	0.02	0.446539	0.09902867	9.22E-06
TGAGA	T	0.4	-0.1168676	0.0258224	8.57E-06
G	A	0.1	0.183067	0.03926766	4.68E-06
C	T	0.4	-0.1176324	0.02369063	1.16E-06
G	A	0.41	-0.1089366	0.0238581	7.18E-06
T	C	0.42	-0.1064678	0.02356219	8.85E-06
A	G	0.1	0.1799769	0.04004632	9.85E-06
T	C	0.48	0.1133629	0.02415343	4.06E-06
A	C	0.01	0.5330772	0.1142159	4.57E-06
G	A	0.4	0.1123039	0.02437807	5.99E-06
G	GACACACACACACAC	0.04	0.2768452	0.06162537	9.93E-06
A	T	0.01	0.4805453	0.1030718	4.68E-06
T	G	0.42	0.1099418	0.02448106	9.99E-06
G	A	0.04	0.2881234	0.06362934	8.49E-06
G	A	0.04	0.2896536	0.06387888	8.26E-06
A	C	0.01	0.4770794	0.1038901	6.40E-06
T	G	0.05	0.2428688	0.05256224	5.63E-06
C	A	0.45	0.1148904	0.02421863	3.23E-06
A	G	0.02	0.4902731	0.09464814	4.15E-07
A	G	0.02	0.4902731	0.09464814	4.15E-07

T	TGG	0.03	0.385393	0.07504458	5.14E-07
G	A	0.02	0.3559692	0.07878763	8.87E-06
G	T	0.01	0.5046342	0.1080043	4.47E-06
C	T	0.33	0.1131155	0.02497337	8.44E-06
ATT	A	0.02	0.3800418	0.08125114	4.37E-06
A	T	0.18	-0.139761	0.03091293	8.75E-06
AT	A	0.17	-0.1443493	0.03122266	5.57E-06
G	A	0.17	-0.1486143	0.03257092	7.28E-06
A	G	0.18	-0.1395027	0.03106391	9.99E-06
T	C	0.16	-0.1458358	0.03162759	5.88E-06
T	C	0.2	-0.1422332	0.03014138	3.62E-06
G	A	0.2	-0.1422332	0.03014138	3.62E-06
G	T	0.2	-0.1422332	0.03014138	3.62E-06
C	T	0.2	-0.1459925	0.03013248	2.03E-06
ACTGTATC	A	0.2	-0.1449616	0.03015546	2.42E-06
T	C	0.2	-0.1459925	0.03013248	2.03E-06
A	T	0.2	-0.1459925	0.03013248	2.03E-06
T	C	0.2	-0.1420749	0.03013869	3.70E-06
T	C	0.2	-0.1459925	0.03013248	2.03E-06
T	C	0.2	-0.1420749	0.03013869	3.70E-06
G	C	0.2	-0.1390163	0.03014473	5.86E-06
G	A	0.22	-0.1427097	0.02918495	1.65E-06
T	C	0.22	-0.1439419	0.02917111	1.34E-06
C	T	0.01	0.5070894	0.1121699	8.77E-06
T	C	0.21	-0.1420602	0.02912542	1.75E-06
A	G	0.21	-0.141469	0.02895573	1.68E-06
A	G	0.21	-0.14185	0.02885493	1.46E-06
C	T	0.21	-0.1408023	0.02925817	2.36E-06
C	T	0.43	0.09718484	0.02152262	8.97E-06
G	A	0.01	0.4540477	0.0999173	7.91E-06
CT	C	0.15	0.1529316	0.03191899	2.60E-06
A	G	0.01	0.5608607	0.1130377	1.18E-06
T	G	0.21	0.1267802	0.02801169	8.57E-06
T	TA	0.24	0.1431733	0.02964561	2.18E-06
A	T	0.04	0.2955087	0.06217649	3.10E-06
C	T	0.5	-0.1058679	0.02309694	6.64E-06
A	G	0.5	-0.1045907	0.02306693	8.26E-06
G	A	0.49	0.1026245	0.02284553	9.94E-06
G	C	0.14	0.1551987	0.03376829	6.29E-06
A	G	0.16	0.1626586	0.03165783	5.08E-07
A	T	0.03	0.3284217	0.07045844	4.70E-06
G	A	0.14	0.1514523	0.03369665	9.83E-06
G	A	0.03	0.3099424	0.06646247	4.65E-06
C	T	0.03	0.3235198	0.06708563	2.25E-06
A	C	0.03	0.3099424	0.06646247	4.65E-06
AG	A	0.03	0.3099424	0.06646247	4.65E-06
C	G	0.03	0.3215386	0.06699017	2.50E-06
G	A	0.03	0.3099424	0.06646247	4.65E-06
T	C	0.03	0.3099424	0.06646247	4.65E-06
C	G	0.03	0.3099424	0.06646247	4.65E-06

C	CA	0.03	0.2970618	0.06583827	9.11E-06
A	G	0.03	0.2970618	0.06583827	9.11E-06
T	TA	0.03	0.307833	0.0663549	5.18E-06
C	T	0.02	0.3932775	0.08601704	6.99E-06
T	C	0.05	0.2303601	0.0512916	9.98E-06
T	C	0.5	0.113225	0.02305244	1.49E-06
G	GACACACACAC	0.04	0.2653216	0.05714516	5.10E-06
T	TTTCTTTTCTTTCTTTC	0.01	0.515775	0.1075394	2.54E-06
A	T	0.06	0.2208861	0.04857499	7.80E-06
C	A	0.06	0.2259742	0.04873708	5.25E-06
C	T	0.06	0.2206212	0.04857404	7.99E-06
C	CTT	0.05	0.2411096	0.05205271	5.35E-06
T	C	0.02	0.3305776	0.07194875	6.33E-06
T	TG	0.27	-0.1205858	0.02520914	2.70E-06
G	C	0.46	-0.1060999	0.02337238	8.07E-06
G	A	0.46	-0.1075929	0.02335677	6.00E-06
A	G	0.46	-0.1066862	0.02332268	6.92E-06
C	T	0.46	-0.1051823	0.02334909	9.40E-06
G	A	0.46	-0.1066664	0.02333436	7.02E-06
TACACAC	T	0.02	0.3682614	0.07940027	5.21E-06
T	TTGTG	0.02	0.4445985	0.08797586	7.62E-07
CTG	C	0.1	0.1980116	0.04052677	1.68E-06
C	G	0.01	0.4992279	0.1111215	9.92E-06
T	C	0.02	0.358364	0.07797653	6.29E-06
C	T	0.02	0.358364	0.07797653	6.29E-06
G	A	0.28	0.1181519	0.02609814	8.52E-06
G	A	0.02	0.4392628	0.09534639	5.99E-06
A	G	0.04	0.2837378	0.06186437	6.56E-06
T	TCTCACA	0.01	0.4807383	0.1026598	4.26E-06
C	T	0.02	0.4067166	0.08563371	3.15E-06
T	A	0.02	0.3669492	0.07991282	6.40E-06
C	T	0.06	0.2249315	0.04830489	4.80E-06
G	A	0.07	0.2043325	0.04479009	7.31E-06
A	T	0.13	0.1599773	0.03511123	7.50E-06
C	A	0.31	0.1236628	0.02557417	2.12E-06
G	GTCTC	0.02	0.4219017	0.09037764	4.55E-06
A	G	0.06	0.230873	0.04985832	5.39E-06
A	G	0.06	0.2364465	0.05007657	3.57E-06
T	C	0.06	0.2364969	0.05160993	6.68E-06
A	C	0.09	0.1978588	0.04278661	5.54E-06
T	TGTGTGTGTGTGTGTG	0.03	0.3109046	0.06464425	2.39E-06
GGTTT	G	0.05	0.2566732	0.05449011	3.76E-06
A	ATT	0.02	0.4255962	0.0943533	9.16E-06
A	ATGTG	0.01	0.4670288	0.1009081	5.44E-06
G	A	0.28	0.1102731	0.02360066	4.47E-06
G	A	0.26	0.1165772	0.02468558	3.56E-06
C	G	0.27	0.1133833	0.02354356	2.32E-06
G	C	0.24	0.1125181	0.02504881	9.95E-06
G	T	0.26	0.1160165	0.02463148	3.77E-06
C	T	0.28	0.1082408	0.023458	5.80E-06

C	A	0.02	0.3900461	0.08306153	4.02E-06
C	T	0.02	0.3990493	0.08591378	5.06E-06
T	C	0.02	0.4316517	0.083958	5.00E-07
T	A	0.02	0.4230541	0.09051095	4.43E-06
A	T	0.01	0.5013492	0.09959463	8.37E-07
G	A	0.07	0.2011392	0.04406633	7.23E-06
AT	A	0.02	0.3415136	0.07588828	9.59E-06
G	C	0.32	-0.1031777	0.02236849	5.84E-06
C	A	0.02	0.4318635	0.09527729	8.32E-06
C	T	0.12	0.3726943	0.0818538	7.86E-06
G	A	0.13	0.3934732	0.07979238	1.42E-06
G	A	0.14	0.3744627	0.07898659	3.41E-06
C	T	0.1	0.4043611	0.08648402	4.57E-06
TA	T	0.01	1.065457	0.2304831	5.78E-06
ATTATTTTATT	A	0.02	1.039435	0.2033354	6.08E-07
A	C	0.19	0.3289419	0.06739661	1.80E-06
A	G	0.19	0.3027009	0.06653199	7.98E-06
A	G	0.19	0.3027009	0.06653199	7.98E-06
C	T	0.19	0.3133003	0.06690235	4.42E-06
C	T	0.19	0.3027009	0.06653199	7.98E-06
G	A	0.19	0.3050294	0.06759792	9.39E-06
C	T	0.08	0.4634062	0.1011728	6.97E-06
C	T	0.01	1.234159	0.2568793	2.55E-06
A	AGTGT	0.07	0.5387272	0.1115434	2.27E-06
C	G	0.01	1.215943	0.2528078	2.49E-06
C	T	0.07	0.5032014	0.1073205	4.31E-06
G	A	0.01	1.114625	0.2429526	6.75E-06
C	G	0.01	1.114625	0.2429526	6.75E-06
C	A	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
TAA	T	0.01	1.114625	0.2429526	6.75E-06
A	C	0.01	1.114625	0.2429526	6.75E-06
C	T	0.01	1.114625	0.2429526	6.75E-06
C	T	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
C	T	0.01	1.114625	0.2429526	6.75E-06
G	A	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
C	T	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
G	A	0.01	1.114625	0.2429526	6.75E-06
CAG	C	0.01	1.114625	0.2429526	6.75E-06
T	G	0.01	1.114625	0.2429526	6.75E-06
C	T	0.01	1.114625	0.2429526	6.75E-06
G	C	0.01	1.114625	0.2429526	6.75E-06
A	C	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.114625	0.2429526	6.75E-06
C	A	0.01	1.114625	0.2429526	6.75E-06
G	C	0.01	1.114625	0.2429526	6.75E-06

C	T	0.01	1.114625	0.2429526	6.75E-06
A	G	0.01	1.114625	0.2429526	6.75E-06
T	C	0.01	1.086427	0.2349038	5.72E-06
T	G	0.01	1.106646	0.2438276	8.37E-06
C	G	0.35	0.2687417	0.05677971	3.53E-06
T	C	0.35	0.2547772	0.05612966	8.36E-06
G	C	0.3	0.2773325	0.06161548	9.87E-06
G	C	0.04	0.6703325	0.1337364	9.74E-07
G	A	0.04	0.6565624	0.1331462	1.42E-06
G	A	0.02	1.168385	0.2221914	3.00E-07
G	A	0.04	0.6367993	0.140743	8.91E-06
A	G	0.11	-0.3993128	0.08676015	6.32E-06
G	GAAAGAAAAGA	0.01	1.129301	0.2493553	8.74E-06
C	T	0.02	0.8090281	0.1700605	3.16E-06
T	A	0.04	0.6486687	0.1337661	2.08E-06
A	G	0.01	1.283332	0.2462431	3.76E-07
C	T	0.01	1.254939	0.2679583	4.41E-06
C	T	0.01	1.042149	0.2265591	6.40E-06
C	T	0.02	0.9852532	0.1883441	3.43E-07
C	T	0.07	0.4636655	0.1028648	9.59E-06
T	C	0.15	0.3720378	0.07995036	5.05E-06
G	A	0.35	0.2499194	0.05542914	9.54E-06
A	G	0.47	-0.235338	0.05227313	9.82E-06
C	T	0.01	1.234725	0.2574091	2.64E-06
G	A	0.01	1.234725	0.2574091	2.64E-06
T	C	0.01	1.234725	0.2574091	2.64E-06
T	TTCTC	0.01	1.082609	0.235229	6.33E-06
A	G	0.05	0.5673904	0.1257532	9.41E-06
A	T	0.04	0.6199884	0.1359325	7.59E-06
A	G	0.04	0.656242	0.136247	2.42E-06
A	G	0.02	0.8316195	0.1837056	8.81E-06
G	A	0.2	0.3109867	0.06567888	3.50E-06
C	T	0.2	0.3131675	0.06566103	2.99E-06
C	T	0.2	0.3136104	0.06608814	3.34E-06
T	G	0.2	0.3055499	0.06605703	5.71E-06
C	T	0.2	0.3020591	0.06629552	7.75E-06
T	C	0.2	0.3040873	0.06589075	5.98E-06
T	A	0.16	0.3231052	0.07100052	7.94E-06
A	G	0.16	0.3264588	0.07100134	6.45E-06
A	ATGGTGGTGG	0.15	0.3379792	0.07505989	9.79E-06
C	T	0.16	0.3243673	0.07091969	7.18E-06
G	C	0.16	0.3243673	0.07091969	7.18E-06
ATTG	A	0.16	0.3238709	0.0717055	9.22E-06
C	T	0.16	0.321034	0.07098513	8.98E-06
A	G	0.16	0.3243673	0.07091969	7.18E-06
G	A	0.02	1.018464	0.2154603	3.63E-06
A	G	0.02	1.018464	0.2154603	3.63E-06
T	C	0.02	0.9486219	0.2034142	4.82E-06
C	A	0.08	0.484259	0.1014973	2.97E-06
G	A	0.03	0.774256	0.1684939	6.53E-06

C	G	0.03	0.774256	0.1684939	6.53E-06
A	C	0.03	0.8222414	0.1711958	2.57E-06
C	T	0.03	0.774256	0.1684939	6.53E-06
G	T	0.02	1.145949	0.2115337	1.37E-07
ATG	A	0.01	1.097833	0.2199801	1.08E-06
T	TCAA	0.25	0.3282498	0.06595073	1.15E-06
C	CGTGTGTGTGT	0.03	0.7574986	0.1576251	2.54E-06
C	T	0.23	0.2763216	0.06091847	8.47E-06
AT	A	0.24	0.2693878	0.05961929	9.15E-06
G	C	0.25	0.2813971	0.05941011	3.48E-06
C	T	0.25	0.2694945	0.05975282	9.48E-06
A	G	0.25	0.2708646	0.05927574	7.31E-06
G	A	0.01	1.154367	0.2423928	3.09E-06
C	T	0.01	1.172821	0.2381871	1.47E-06
C	T	0.01	1.172821	0.2381871	1.47E-06
A	G	0.01	1.226969	0.2465302	1.15E-06
AACACACAC	A	0.01	1.22415	0.2596641	3.84E-06
A	G	0.01	1.144787	0.2493682	6.66E-06
G	A	0.02	0.9120814	0.1927097	3.53E-06
G	A	0.24	0.2879515	0.06158653	4.57E-06
A	T	0.25	0.2838334	0.06160238	6.19E-06
C	T	0.25	0.2838334	0.06160238	6.19E-06
T	C	0.25	0.2871209	0.06127491	4.37E-06
A	G	0.25	0.2838334	0.06160238	6.19E-06
G	C	0.25	0.2940351	0.06153087	2.87E-06
C	T	0.25	0.2821091	0.06131649	6.37E-06
C	T	0.25	0.2766664	0.06105025	8.63E-06
C	A	0.25	0.2943037	0.06181321	3.11E-06
T	C	0.25	0.2821091	0.06131649	6.37E-06
G	A	0.25	0.2940351	0.06153087	2.87E-06
C	G	0.25	0.2940351	0.06153087	2.87E-06
A	T	0.25	0.2940351	0.06153087	2.87E-06
A	G	0.3	0.262119	0.05768073	8.17E-06
T	G	0.3	0.2617594	0.05773828	8.56E-06
G	GTGAC	0.3	0.2592439	0.05742912	9.32E-06
T	C	0.25	0.2981316	0.06151139	2.10E-06
C	T	0.25	0.293977	0.0612362	2.60E-06
A	G	0.25	0.293977	0.0612362	2.60E-06
C	G	0.25	0.2981316	0.06151139	2.10E-06
T	C	0.25	0.2747212	0.06085841	9.32E-06
A	G	0.25	0.2954507	0.06150783	2.56E-06
A	T	0.24	0.2984434	0.06179435	2.28E-06
A	T	0.25	0.2994494	0.06148943	1.89E-06
A	G	0.24	0.2984434	0.06179435	2.28E-06
A	C	0.26	0.3134347	0.05794747	1.43E-07
C	T	0.47	-0.2550074	0.05411941	3.88E-06
A	T	0.04	0.6197442	0.133391	5.21E-06
C	G	0.05	0.61071	0.1325225	6.16E-06
C	T	0.35	-0.2792526	0.05871403	3.18E-06
T	C	0.36	-0.2686152	0.05847675	6.58E-06

G	T	0.26	-0.2671875	0.05728632	4.81E-06
C	T	0.28	-0.2768361	0.05736325	2.31E-06
A	T	0.26	-0.2645149	0.0576402	6.71E-06
T	A	0.01	1.237061	0.2547336	2.01E-06
A	G	0.01	1.17021	0.2414194	2.10E-06
T	A	0.04	-0.6789241	0.1376596	1.42E-06
T	TA	0.01	1.168356	0.2581695	8.87E-06
T	C	0.02	0.8313941	0.1843578	9.50E-06
G	A	0.01	1.241749	0.2657592	4.63E-06
T	C	0.01	1.280456	0.241034	2.31E-07
A	AACACAC	0.04	0.632105	0.1393018	8.41E-06
AT	A	0.03	0.7603854	0.1631448	4.88E-06
A	G	0.45	0.2340017	0.05057139	5.67E-06
C	GGGACTTGAGTAAAC	0.01	1.231984	0.2557276	2.40E-06
A	G	0.01	0.8329769	0.1393126	9.37E-09
T	C	0.01	1.145537	0.1770273	5.52E-10
G	A	0.01	1.145537	0.1770273	5.52E-10
T	G	0.01	1.043023	0.1708108	4.04E-09
G	A	0.02	0.8159696	0.13567	6.60E-09
G	A	0.01	0.9049547	0.1487782	4.38E-09
C	T	0.01	0.8981199	0.1467243	3.56E-09
C	T	0.01	0.8981199	0.1467243	3.56E-09
A	C	0.26	0.1822597	0.02995044	4.98E-09
G	A	0.02	0.8343225	0.1387701	6.59E-09
A	G	0.02	0.8343225	0.1387701	6.59E-09
G	A	0.02	0.6448744	0.1056537	3.92E-09
A	G	0.02	0.6448744	0.1056537	3.92E-09
T	TTG	0.01	0.8703146	0.140789	2.57E-09
G	A	0.01	0.7344214	0.1169012	1.98E-09
A	G	0.01	0.7344214	0.1169012	1.98E-09
T	C	0.02	0.6736416	0.108788	3.20E-09
G	GAAGA	0.08	0.5143136	0.08501033	6.33E-09
C	CGT	0.05	0.7078467	0.1154103	4.08E-09
T	TTCTCTCTCTCTCTC	0.02	1.360696	0.2143677	1.29E-09
G	A	0.02	1.389046	0.2180047	1.13E-09
GA	G	0.02	1.42648	0.2301233	2.98E-09
G	GAAGA	0.08	0.4654907	0.07626463	4.79E-09
G	GAAGA	0.08	0.5127583	0.08539107	7.83E-09
T	TTCTCTCTCTCTCTC	0.02	1.117523	0.175062	1.29E-09
G	GAAGA	0.08	0.4819662	0.08065814	9.11E-09
G	GAAGA	0.08	0.5538519	0.09064889	4.63E-09
T	C	0.03	0.3544655	0.07471891	3.23E-06
A	G	0.02	0.4017679	0.08343994	2.33E-06
G	A	0.11	0.1766686	0.03712484	3.02E-06
G	C	0.12	0.1760688	0.03692259	2.89E-06
G	A	0.12	0.1693198	0.03690717	6.52E-06
A	G	0.1	0.2043438	0.04006391	6.09E-07
C	G	0.13	0.1670454	0.03612318	5.54E-06
C	A	0.12	0.1803439	0.0377534	2.78E-06
G	T	0.12	0.1803439	0.0377534	2.78E-06

G	A	0.12	0.1650305	0.0366668	9.57E-06
A	G	0.12	0.1846671	0.03638892	6.89E-07
A	C	0.12	0.1711099	0.03628027	3.66E-06
G	A	0.12	0.1715651	0.03620032	3.30E-06
C	T	0.12	0.1711455	0.03627633	3.64E-06
G	A	0.12	0.1866014	0.03850097	2.02E-06
G	T	0.1	0.1944824	0.04206827	5.57E-06
A	G	0.12	0.1677829	0.03646119	6.13E-06
G	T	0.13	0.1621752	0.03598582	9.33E-06
G	A	0.12	0.1721484	0.03629084	3.24E-06
A	G	0.13	0.1687735	0.03612009	4.46E-06
G	A	0.05	0.2320804	0.05049059	6.27E-06
A	G	0.02	0.3672784	0.08086867	8.00E-06
T	G	0.02	0.3859816	0.07954214	1.96E-06
T	C	0.03	0.3161871	0.07017936	9.38E-06
C	CATT	0.03	0.3402774	0.07247338	4.03E-06
TG	T	0.01	0.5085981	0.1079454	3.74E-06
A	T	0.33	0.1160976	0.02481985	4.36E-06
C	A	0.01	0.488271	0.1032187	3.44E-06
G	A	0.41	0.0997341	0.02203872	8.59E-06
C	T	0.01	0.5101445	0.1093108	4.58E-06
C	T	0.01	0.5049646	0.1118831	9.06E-06
T	C	0.02	0.3525585	0.07792888	8.64E-06
A	G	0.02	0.4190157	0.09168865	7.06E-06
T	C	0.11	-0.1757906	0.03767497	4.60E-06
TC	T	0.08	-0.2119921	0.04444513	2.87E-06
C	CA	0.43	0.112573	0.02373282	3.24E-06
G	A	0.03	0.3067152	0.06619217	5.31E-06
T	C	0.03	0.3067152	0.06619217	5.31E-06
G	A	0.03	0.3043687	0.0675821	9.45E-06
C	T	0.03	0.3208526	0.0681594	3.81E-06
A	AT	0.14	0.1653886	0.03575664	5.51E-06
T	TTTCCTTCCTCC	0.05	0.2605406	0.05521229	3.62E-06
CT	C	0.45	-0.106106	0.02362489	9.97E-06
G	A	0.43	-0.108308	0.02336253	5.26E-06
A	G	0.43	-0.106195	0.02335224	7.79E-06
A	T	0.43	-0.1056126	0.02333021	8.53E-06
C	CAACT	0.04	0.308991	0.06268943	1.37E-06
C	T	0.04	0.2981836	0.06237151	2.73E-06
A	T	0.41	0.1121163	0.02392617	4.20E-06
TACACAC	T	0.06	0.23226	0.05135045	8.68E-06
G	T	0.2	0.1384562	0.02952956	4.15E-06
G	C	0.2	0.1397138	0.0293883	3.08E-06
T	G	0.19	0.1426021	0.0303115	3.86E-06
G	A	0.18	0.1436604	0.03078474	4.58E-06
T	C	0.18	0.1437612	0.03076736	4.46E-06
G	C	0.19	0.1387726	0.03052797	7.85E-06
A	G	0.19	0.1488095	0.03066434	1.96E-06
C	T	0.19	0.1422968	0.03051008	4.64E-06
C	CT	0.18	0.1421848	0.03112308	7.10E-06

A	AT	0.19	0.1422968	0.03051008	4.64E-06
C	CTCTT	0.18	0.1416245	0.03121693	8.17E-06
T	C	0.19	0.1422968	0.03051008	4.64E-06
C	G	0.19	0.1422968	0.03051008	4.64E-06
A	ATG	0.18	0.1478017	0.03242521	7.43E-06
A	G	0.18	0.1501634	0.03124083	2.42E-06
G	T	0.19	0.1393829	0.03050247	7.07E-06
T	C	0.17	0.1398437	0.0310184	9.25E-06
T	A	0.19	0.1382764	0.03050897	8.33E-06
G	A	0.2	0.140026	0.02984874	4.10E-06
G	C	0.09	0.2015064	0.0442829	7.69E-06
A	AACAC	0.09	0.2152832	0.04354776	1.28E-06
G	A	0.02	0.3799122	0.08341292	7.55E-06
G	A	0.09	0.1962718	0.0425258	5.77E-06
G	C	0.06	0.2277516	0.04573307	1.08E-06
A	G	0.03	0.3164802	0.06750444	4.16E-06
TTCTC	T	0.03	0.3451405	0.06836419	7.81E-07
C	T	0.03	0.3277506	0.07106982	5.86E-06
G	C	0.03	0.3108517	0.06532062	3.02E-06
CAT	C	0.03	0.3108517	0.06532062	3.02E-06
C	T	0.04	0.3039273	0.05970644	6.39E-07
T	C	0.03	0.3008924	0.06595893	7.32E-06
A	G	0.03	0.313338	0.06633717	3.55E-06
G	C	0.03	0.3008924	0.06595893	7.32E-06
A	G	0.03	0.3008924	0.06595893	7.32E-06
A	T	0.03	0.3008924	0.06595893	7.32E-06
A	G	0.03	0.3008924	0.06595893	7.32E-06
C	T	0.03	0.3008924	0.06595893	7.32E-06
A	G	0.03	0.3524346	0.07426741	3.21E-06
C	T	0.03	0.3524346	0.07426741	3.21E-06
G	A	0.03	0.3393848	0.0676466	9.07E-07
C	A	0.39	0.1110256	0.02401798	5.58E-06
G	C	0.39	0.1096501	0.02409495	7.68E-06
G	T	0.39	0.1120111	0.02406518	4.84E-06
T	G	0.38	0.1100928	0.02413865	7.35E-06
TAAAC	T	0.02	0.4614146	0.09419952	1.59E-06
A	G	0.2	0.1404774	0.02935794	2.68E-06
C	T	0.24	0.1281338	0.0274242	4.47E-06
A	T	0.02	0.4086305	0.08542014	2.69E-06
A	C	0.36	0.114979	0.02548842	9.15E-06
G	A	0.35	0.1166147	0.0255919	7.48E-06
A	G	0.36	0.1149274	0.02549371	9.27E-06
C	T	0.03	0.3498368	0.0729171	2.53E-06
G	GA	0.16	-0.1321914	0.02915493	8.27E-06
G	A	0.04	0.28063	0.06226339	9.31E-06
AG	A	0.04	0.28063	0.06226339	9.31E-06
T	C	0.04	0.28063	0.06226339	9.31E-06
T	C	0.05	0.2694444	0.05704551	3.55E-06
C	A	0.05	0.2694444	0.05704551	3.55E-06
T	C	0.23	0.1276926	0.02819382	8.45E-06

TC	T	0.17	0.1455986	0.03096104	3.90E-06
G	A	0.17	0.1442939	0.0309571	4.70E-06
C	T	0.17	0.1442939	0.0309571	4.70E-06
G	A	0.17	0.146213	0.03098542	3.62E-06
G	A	0.17	0.1442939	0.0309571	4.70E-06
C	T	0.2	0.1308731	0.02899571	9.05E-06
T	C	0.02	0.4557818	0.09736631	4.29E-06
CGT	C	0.24	-0.1469079	0.03110469	3.55E-06
T	TTGTG	0.26	0.1381979	0.02976206	5.09E-06
C	A	0.01	-1.02344	0.1691921	5.87E-09
A	C	0.01	-1.02344	0.1691921	5.87E-09
G	A	0.01	-1.02344	0.1691921	5.87E-09
G	T	0.38	-0.2792713	0.05821327	2.66E-06
A	G	0.38	-0.2879339	0.05862153	1.58E-06
G	GC	0.38	-0.3019987	0.05841097	4.66E-07
C	T	0.38	-0.2662924	0.05768988	6.01E-06
G	T	0.39	-0.2608096	0.05765504	9.01E-06
C	T	0.39	-0.2705573	0.05745816	3.97E-06
A	G	0.38	-0.2596019	0.05757547	9.61E-06
TTGTGTGTG	T	0.02	0.9839668	0.2168612	8.49E-06
TTGTGTGTGTGTGT	C	0.28	-0.3023022	0.0635799	3.23E-06
G	T	0.04	-0.6787624	0.1361803	1.12E-06
T	G	0.04	-0.6328001	0.1399138	9.05E-06
C	T	0.04	-0.6820208	0.1454008	4.31E-06
T	C	0.03	-0.719377	0.1534027	4.33E-06
C	T	0.03	-0.7729036	0.1634598	3.64E-06
A	G	0.42	-0.2688585	0.05823327	5.98E-06
A	G	0.01	-1.257736	0.2708106	5.30E-06
AG	A	0.04	-0.6740119	0.1479005	7.78E-06
C	T	0.21	-0.3137611	0.06845936	6.94E-06
C	G	0.21	-0.3172541	0.06847693	5.57E-06
C	T	0.07	-0.4789841	0.1044061	6.81E-06
A	T	0.33	-0.2870469	0.06302619	7.88E-06
AT	A	0.37	-0.2993957	0.05948706	8.95E-07
A	C	0.38	-0.3036623	0.05917304	5.60E-07
A	C	0.38	-0.3036623	0.05917304	5.60E-07
A	G	0.38	-0.2986449	0.05915146	8.31E-07
A	G	0.37	-0.2906669	0.05967238	1.90E-06
G	T	0.37	-0.3015316	0.0592042	6.74E-07
C	T	0.37	-0.3014594	0.0589489	6.10E-07
T	A	0.38	-0.3014315	0.05913237	6.59E-07
T	TACAC	0.02	-1.039409	0.2081474	1.08E-06
G	A	0.02	-0.8570589	0.1898486	9.38E-06
A	G	0.02	-0.8570589	0.1898486	9.38E-06
C	G	0.02	-0.9513089	0.2007854	3.49E-06
G	T	0.02	-1.003647	0.2040586	1.53E-06
G	A	0.02	-0.9513089	0.2007854	3.49E-06
T	C	0.02	-0.9513089	0.2007854	3.49E-06
G	C	0.02	-0.9513089	0.2007854	3.49E-06
T	C	0.02	-0.9513089	0.2007854	3.49E-06

C	T	0.02	-1.015037	0.211433	2.62E-06
C	T	0.02	-0.9513089	0.2007854	3.49E-06
C	A	0.02	-0.9513089	0.2007854	3.49E-06
C	T	0.02	-0.9513089	0.2007854	3.49E-06
G	A	0.03	-0.8100474	0.1759235	6.32E-06
C	CT	0.18	-0.3429582	0.0735292	4.85E-06
A	G	0.05	-0.5623981	0.1239708	8.52E-06
A	G	0.06	-0.5685985	0.1172115	2.08E-06
G	A	0.05	-0.6001113	0.1291877	5.28E-06
T	G	0.3	-0.2662463	0.05761923	5.88E-06
G	T	0.03	-0.7119633	0.1484888	2.70E-06
C	T	0.05	-0.6089476	0.1325045	6.57E-06
C	T	0.05	-0.5827643	0.1279385	7.86E-06
C	T	0.05	-0.601641	0.1323745	8.21E-06
G	A	0.33	-0.2875032	0.05969651	2.45E-06
TGGGTG	T	0.34	-0.2659146	0.05857787	8.41E-06
TGAA	T	0.19	0.3259176	0.0715088	7.77E-06
C	A	0.19	0.3315251	0.07110875	4.89E-06
C	CATGTGTGTGTGT	0.01	-0.9308193	0.2026682	6.66E-06
C	CTAAA	0.08	-0.4805506	0.1033146	5.14E-06
TAC	T	0.08	-0.4900139	0.1075392	7.80E-06
C	T	0.43	0.257883	0.05547382	5.20E-06
C	G	0.44	0.2595428	0.05557567	4.73E-06
AT	A	0.2	0.3422344	0.07429354	6.27E-06
C	T	0.06	0.5241905	0.113671	6.13E-06
G	A	0.14	-0.3598571	0.07955869	9.03E-06
A	AACACACACAC	0.06	-0.5362115	0.1181403	8.44E-06
G	C	0.22	-0.3073643	0.06760779	8.16E-06
C	T	0.22	-0.3073643	0.06760779	8.16E-06
T	A	0.22	-0.3073643	0.06760779	8.16E-06
G	A	0.02	-0.8877301	0.1958875	8.70E-06
C	T	0.05	0.642545	0.1353628	3.35E-06
G	A	0.05	0.6214001	0.1353281	6.69E-06
AGATGGATG	A	0.09	-0.4470123	0.09888309	9.13E-06
A	C	0.05	-0.6144097	0.1344217	7.33E-06
C	A	0.01	-1.078516	0.2260384	3.00E-06
ATTTT	A	0.01	-1.170907	0.2448724	2.86E-06
A	C	0.33	-0.2392823	0.05298386	9.31E-06
T	A	0.01	-1.365534	0.263943	4.59E-07
G	A	0.02	-1.043021	0.2288693	7.78E-06
ACACGCATG	A	0.01	-1.21924	0.2501764	1.88E-06
T	C	0.02	-1.022862	0.2110237	2.12E-06
T	C	0.02	-1.022862	0.2110237	2.12E-06
T	C	0.03	-0.8048461	0.1709993	4.01E-06
G	A	0.01	-1.256068	0.2676982	4.28E-06
C	T	0.01	-1.256068	0.2676982	4.28E-06
C	A	0.02	-1.009825	0.1792071	4.67E-08
G	GGA	0.01	-1.025534	0.1713358	7.97E-09
TC	T	0.04	-0.5652997	0.09384858	6.52E-09
A	G	0.01	1.076078	0.179426	7.46E-09

C	T	0.01	-1.227165	0.2637241	5.03E-06
T	TA	0.31	0.3022395	0.06309891	2.72E-06
G	A	0.24	0.2869578	0.06194103	5.51E-06
AAAGAAAGAAAGAA/	G	0.01	-1.089249	0.2399959	8.35E-06
C	T	0.05	-0.6002126	0.1272336	3.78E-06
G	A	0.15	-0.3648054	0.07688159	3.33E-06
C	T	0.19	0.330591	0.0692921	2.96E-06
C	A	0.01	-1.15305	0.2455622	4.17E-06
C	CT	0.17	-0.3613927	0.07607665	3.25E-06
GT	G	0.18	-0.3597276	0.07183461	9.92E-07
C	A	0.2	-0.29952	0.06461065	5.44E-06
C	CACACACACACAG	0.01	-1.173012	0.2602394	9.57E-06
C	T	0.03	-0.812275	0.1740856	4.76E-06
G	T	0.08	-0.4816169	0.1029113	4.47E-06
T	C	0.02	-0.9438156	0.1915175	1.44E-06
A	C	0.3	-0.2813513	0.0613286	6.73E-06
A	G	0.23	-0.305153	0.06712174	8.08E-06
C	T	0.3	0.2493754	0.05517525	9.07E-06
CA	C	0.36	-0.2542	0.05429195	4.42E-06
G	C	0.05	0.6036297	0.1331219	8.51E-06
ATG	A	0.04	0.7348009	0.1400425	3.16E-07
TAC	T	0.06	0.5243974	0.1120274	4.45E-06
T	C	0.04	-0.6847414	0.1419539	2.33E-06
T	C	0.03	-0.6943191	0.1474941	3.95E-06
G	A	0.03	-0.7243157	0.1448956	1.03E-06
T	C	0.03	-0.6795585	0.1449753	4.32E-06
C	T	0.04	-0.7036082	0.140457	9.84E-07
T	C	0.04	-0.6847414	0.1419539	2.33E-06
C	T	0.04	-0.6847414	0.1419539	2.33E-06
C	T	0.03	-0.7003661	0.1457075	2.52E-06
T	TTTG	0.04	-0.6854292	0.1434041	2.85E-06
C	G	0.04	-0.6620659	0.143734	6.20E-06
T	G	0.03	-0.6770419	0.1476493	6.80E-06
C	A	0.04	-0.6620659	0.143734	6.20E-06
A	G	0.04	-0.7069601	0.1452865	1.92E-06
G	T	0.04	-0.738369	0.1491142	1.29E-06
C	G	0.11	-0.3975987	0.08783108	8.79E-06
T	G	0.01	-1.210823	0.2543069	3.10E-06
G	A	0.02	-0.9792458	0.2082142	4.03E-06
G	GTC	0.01	-1.1494	0.2364584	1.96E-06
G	C	0.48	0.2530608	0.05571674	8.23E-06
T	G	0.28	-0.2835347	0.06205169	7.30E-06
C	T	0.25	0.2976824	0.06314264	3.83E-06
AACACAC	A	0.24	0.3374312	0.07198061	4.31E-06
G	A	0.02	0.9583625	0.1886293	7.02E-07
T	A	0.17	-0.3325371	0.0725803	6.91E-06
C	T	0.17	-0.3325371	0.0725803	6.91E-06
C	T	0.32	-0.2725286	0.06044384	9.51E-06
C	T	0.32	-0.2725286	0.06044384	9.51E-06
T	C	0.32	-0.2737685	0.06049463	8.84E-06

G	A	0.32	-0.2721894	0.06035437	9.47E-06
A	G	0.32	-0.2725286	0.06044384	9.51E-06
T	C	0.21	-0.3196285	0.06849951	4.75E-06
G	A	0.05	-0.6028528	0.1308386	6.16E-06
G	A	0.25	0.2953622	0.06422354	6.40E-06
T	C	0.42	0.251072	0.05444178	6.05E-06
T	C	0.42	0.2577085	0.0544437	3.51E-06
T	G	0.42	0.2524456	0.0544182	5.36E-06
G	A	0.4	-0.2495224	0.05530228	9.38E-06
G	A	0.41	-0.2588106	0.05522714	4.34E-06
G	A	0.04	-0.6743884	0.1460371	5.89E-06
C	T	0.04	-0.7299136	0.1336937	1.11E-07
C	A	0.06	-0.5559854	0.1152125	2.31E-06
A	G	0.06	-0.5559854	0.1152125	2.31E-06
A	G	0.08	-0.4996931	0.1048816	3.05E-06
T	TTGTG	0.16	-0.3572699	0.07883333	8.60E-06
G	A	0.37	0.2879653	0.05663253	6.89E-07
T	C	0.11	-0.4235355	0.0883992	2.70E-06
A	C	0.11	-0.4200471	0.08772464	2.74E-06
ATAAG	A	0.01	-1.251516	0.2549189	1.57E-06
G	A	0.01	-1.240067	0.2652844	4.58E-06
C	A	0.04	-0.6512319	0.1400155	5.08E-06
A	G	0.04	-0.6512319	0.1400155	5.08E-06
T	C	0.04	-0.6512319	0.1400155	5.08E-06
T	G	0.04	-0.6512319	0.1400155	5.08E-06
A	C	0.04	-0.6512319	0.1400155	5.08E-06
T	C	0.04	-0.6512319	0.1400155	5.08E-06
C	A	0.04	-0.6512319	0.1400155	5.08E-06
G	A	0.02	-0.818917	0.1789462	7.08E-06
C	T	0.02	-0.8455519	0.1848322	7.13E-06
GAGGGAGAGGGAGA	A	0.03	-0.7879778	0.1680196	4.27E-06
A	G	0.11	0.2632694	0.04217598	1.83E-09
C	T	0.11	0.2521089	0.04247246	9.51E-09
G	A	0.09	0.2628043	0.04423443	9.25E-09
A	G	0.05	0.5564789	0.1228423	8.42E-06
TTGTGTGTG	T	0.02	0.9731932	0.2020846	2.33E-06
TAC	T	0.02	0.9825775	0.1884522	3.52E-07
C	T	0.01	1.228047	0.2482253	1.26E-06
A	G	0.06	-0.5106663	0.1132132	9.17E-06
C	G	0.06	-0.5226572	0.1146506	7.42E-06
C	A	0.06	-0.512302	0.1102447	5.01E-06
A	C	0.02	0.9353007	0.1942177	2.33E-06
A	T	0.04	0.6274244	0.134751	4.81E-06
C	CT	0.1	0.416389	0.08791159	3.35E-06
C	T	0.02	0.9353007	0.1942177	2.33E-06
C	T	0.04	0.647825	0.1347435	2.41E-06
G	GT	0.02	0.9353007	0.1942177	2.33E-06
T	C	0.04	0.647825	0.1347435	2.41E-06
G	A	0.04	0.647825	0.1347435	2.41E-06
A	C	0.02	0.9353007	0.1942177	2.33E-06

C	T	0.06	0.5104861	0.112167	7.68E-06
G	A	0.06	0.5104861	0.112167	7.68E-06
A	T	0.06	0.5104861	0.112167	7.68E-06
G	A	0.06	0.5104861	0.112167	7.68E-06
G	T	0.02	0.9441007	0.1975269	2.75E-06
T	A	0.02	0.8407576	0.1750051	2.46E-06
A	G	0.02	0.7942216	0.1725502	6.10E-06
C	G	0.02	0.9960388	0.2006735	1.17E-06
AACAG	A	0.02	0.9960388	0.2006735	1.17E-06
T	C	0.02	0.9960388	0.2006735	1.17E-06
C	T	0.02	0.9960388	0.2006735	1.17E-06
G	A	0.02	0.9960388	0.2006735	1.17E-06
G	A	0.02	0.9960388	0.2006735	1.17E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
C	T	0.02	0.7800112	0.1700712	6.57E-06
T	A	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.8562514	0.1892601	8.64E-06
G	T	0.02	0.7800112	0.1700712	6.57E-06
C	A	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
A	ATG	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.7800112	0.1700712	6.57E-06
C	T	0.02	0.7800112	0.1700712	6.57E-06
A	C	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.7800112	0.1700712	6.57E-06
T	A	0.02	0.7800112	0.1700712	6.57E-06
T	G	0.02	0.7800112	0.1700712	6.57E-06
C	T	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
T	C	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
G	A	0.02	0.7800112	0.1700712	6.57E-06
A	C	0.02	0.7800112	0.1700712	6.57E-06
AAAAT	A	0.02	0.7800112	0.1700712	6.57E-06
C	T	0.02	0.7800112	0.1700712	6.57E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
T	C	0.02	0.7800112	0.1700712	6.57E-06
C	A	0.02	0.7800112	0.1700712	6.57E-06
T	C	0.02	0.7800112	0.1700712	6.57E-06
T	C	0.02	0.7800112	0.1700712	6.57E-06
T	A	0.02	0.9691539	0.1968122	1.41E-06
A	G	0.02	0.7800112	0.1700712	6.57E-06
A	AGAGT	0.02	0.9077088	0.1774003	5.64E-07
C	T	0.02	0.9077088	0.1774003	5.64E-07
GTCTGTCTA	G	0.02	0.848515	0.1775821	2.77E-06
G	GA	0.02	0.9202125	0.1820731	7.61E-07

A	G	0.02	0.9202125	0.1820731	7.61E-07
C	T	0.02	0.9202125	0.1820731	7.61E-07
C	G	0.02	0.9202125	0.1820731	7.61E-07
G	A	0.02	0.9202125	0.1820731	7.61E-07
T	G	0.02	0.9202125	0.1820731	7.61E-07
T	C	0.02	0.9202125	0.1820731	7.61E-07
G	C	0.02	0.9202125	0.1820731	7.61E-07
G	A	0.02	0.9202125	0.1820731	7.61E-07
A	G	0.02	0.9202125	0.1820731	7.61E-07
T	C	0.02	0.9128636	0.1815884	8.66E-07
G	A	0.02	0.8785341	0.1856116	3.40E-06
G	A	0.31	0.2596818	0.05745312	8.81E-06
T	TA	0.12	0.395459	0.08377564	3.60E-06
G	A	0.19	0.2950227	0.06475538	7.51E-06
C	CT	0.02	0.891157	0.1927143	5.55E-06
G	A	0.11	-0.3872678	0.08514458	7.77E-06
G	GT	0.3	0.2337022	0.05182948	9.24E-06
T	C	0.02	0.8931287	0.191084	4.44E-06
T	C	0.32	0.2579572	0.05563665	5.25E-06
C	T	0.02	1.031471	0.2128119	2.02E-06
G	C	0.01	1.208221	0.2516382	2.49E-06
CT	C	0.01	1.047856	0.2241271	4.41E-06
T	G	0.02	1.023355	0.2168349	3.61E-06
C	T	0.02	1.010433	0.2088681	2.10E-06
G	A	0.22	0.2878195	0.06379434	9.13E-06
G	A	0.02	0.9291913	0.2064378	9.57E-06
C	G	0.02	0.8648208	0.1913255	8.80E-06
T	C	0.28	0.2556931	0.05596192	7.09E-06
G	5ATGGATAGGTGGAT	0.02	0.8652861	0.1734692	1.04E-06
C	T	0.06	-0.4624291	0.1003714	5.99E-06
G	A	0.37	-0.237419	0.05254714	8.87E-06
T	C	0.38	-0.2381608	0.05268392	8.78E-06
G	A	0.38	-0.2376801	0.05278194	9.48E-06
C	T	0.38	-0.2406477	0.05261236	6.94E-06
A	G	0.46	-0.2312546	0.05074948	7.49E-06
C	A	0.01	1.182453	0.2500449	3.46E-06
G	A	0.13	0.3414044	0.07502798	7.70E-06
A	T	0.13	0.3515128	0.07566013	5.04E-06
T	C	0.13	0.3559862	0.0757129	3.92E-06
C	G	0.13	0.3503816	0.07631961	6.44E-06
C	T	0.13	0.3536235	0.07607171	4.98E-06
T	C	0.13	0.3584657	0.07577295	3.43E-06
T	TAC	0.41	0.2187202	0.04785669	7.05E-06
T	TAC	0.04	0.6460398	0.1406216	6.34E-06
C	A	0.01	1.153092	0.2512131	6.46E-06
T	G	0.01	1.153092	0.2512131	6.46E-06
C	T	0.12	0.3857577	0.078914	1.66E-06
G	GAA	0.01	1.074658	0.2322554	5.48E-06
T	G	0.01	1.24888	0.2521914	1.23E-06
G	C	0.05	0.6098432	0.1216372	9.23E-07

C	CCA	0.05	0.6300585	0.1249662	8.07E-07
T	C	0.01	1.169749	0.2375307	1.40E-06
G	GTGTGTGTGTGTGTG	0.04	0.6719038	0.1319351	6.33E-07
A	G	0.01	1.200306	0.2586468	5.15E-06
C	G	0.01	1.200306	0.2586468	5.15E-06
T	C	0.01	1.200306	0.2586468	5.15E-06
G	A	0.03	0.6973345	0.1528491	7.31E-06
G	GAA	0.02	0.7732342	0.1639268	3.66E-06
TAC	T	0.19	0.330031	0.07140089	5.60E-06
G	A	0.13	0.3549413	0.07795103	7.60E-06
T	C	0.13	0.3559198	0.07775437	6.83E-06
G	A	0.13	0.3549413	0.07795103	7.60E-06
T	C	0.13	0.3544879	0.07763046	7.18E-06
C	T	0.01	1.138899	0.2394518	3.06E-06
A	C	0.01	1.138899	0.2394518	3.06E-06
CGTGTGTGTGTGT	C	0.03	0.7228637	0.1565425	5.71E-06
T	G	0.1	-0.3118241	0.05145923	4.61E-09
C	A	0.1	-0.3105039	0.05197485	7.31E-09
AC	A	0.09	-0.3227075	0.05432042	8.74E-09
C	T	0.02	-0.9087296	0.1493562	4.21E-09
C	A	0.03	0.6089825	0.09771959	2.10E-09
C	CCTATCTAT	0.22	-0.1937774	0.03219668	5.72E-09
T	G	0.15	0.2360108	0.03981932	9.43E-09
T	C	0.15	0.2360108	0.03981932	9.43E-09
G	A	0.15	0.2360108	0.03981932	9.43E-09
T	C	0.15	0.2360108	0.03981932	9.43E-09
C	T	0.15	0.2307614	0.03820087	5.13E-09
C	T	0.15	0.2360108	0.03981932	9.43E-09
T	C	0.15	0.2360108	0.03981932	9.43E-09
A	G	0.15	0.234875	0.03937609	7.70E-09
G	C	0.02	-0.3621464	0.07999891	8.53E-06
T	TTGTGTGTGTGTG	0.01	-0.5143918	0.1142318	9.47E-06
T	C	0.03	-0.3407202	0.07054054	2.18E-06
A	C	0.02	-0.4188916	0.09251606	8.50E-06
G	C	0.02	-0.4188916	0.09251606	8.50E-06
T	G	0.02	-0.4188916	0.09251606	8.50E-06
T	C	0.02	-0.4188916	0.09251606	8.50E-06
G	A	0.02	-0.4188916	0.09251606	8.50E-06
A	T	0.02	-0.4188916	0.09251606	8.50E-06
G	A	0.02	-0.4188916	0.09251606	8.50E-06
A	G	0.01	-0.4971768	0.1100302	8.85E-06
G	C	0.01	-0.4971768	0.1100302	8.85E-06
T	C	0.01	-0.4971768	0.1100302	8.85E-06
T	TACACACAC	0.02	-0.3820133	0.08257844	5.50E-06
T	A	0.47	0.1076906	0.02386036	9.06E-06
A	G	0.47	0.1091503	0.0238458	6.83E-06
G	A	0.48	0.1106561	0.02382106	5.04E-06
T	C	0.47	0.1076906	0.02386036	9.06E-06
A	G	0.47	0.1091503	0.0238458	6.83E-06
C	T	0.47	0.1091503	0.0238458	6.83E-06

T	C	0.47	0.1091503	0.0238458	6.83E-06
T	C	0.47	0.1077298	0.02384388	8.87E-06
T	C	0.48	0.1113141	0.02388897	4.73E-06
T	G	0.48	0.1102232	0.02386634	5.69E-06
A	C	0.48	0.1102232	0.02386634	5.69E-06
A	G	0.48	0.1121574	0.02384791	3.89E-06
G	C	0.48	0.1102232	0.02386634	5.69E-06
G	A	0.48	0.1102232	0.02386634	5.69E-06
T	C	0.48	0.1102232	0.02386634	5.69E-06
C	CT	0.48	0.1070848	0.02375147	9.25E-06
G	A	0.48	0.1121696	0.02384723	3.88E-06
ATTTTAT	A	0.45	0.1188382	0.02417179	1.46E-06
A	G	0.01	-0.5260518	0.1141743	5.97E-06
G	A	0.01	-0.4905461	0.1013344	2.07E-06
T	C	0.01	-0.4905461	0.1013344	2.07E-06
C	T	0.02	-0.4447381	0.09487785	4.17E-06
G	T	0.02	-0.4447381	0.09487785	4.17E-06
C	A	0.02	-0.4447381	0.09487785	4.17E-06
T	C	0.01	-0.4768244	0.09691419	1.43E-06
TC	T	0.02	-0.4447381	0.09487785	4.17E-06
G	C	0.02	-0.4447381	0.09487785	4.17E-06
T	G	0.03	-0.3117224	0.06808773	6.80E-06
G	A	0.08	-0.193799	0.04233878	6.83E-06
T	C	0.29	0.1210101	0.02591948	4.54E-06
G	T	0.29	0.1196003	0.02600061	6.18E-06
C	T	0.3	0.1173944	0.02551809	6.16E-06
A	T	0.37	-0.1050684	0.02296823	6.92E-06
G	A	0.38	-0.1057129	0.02289743	5.73E-06
C	A	0.37	-0.1058863	0.02284804	5.30E-06
TG	T	0.37	-0.1063386	0.02282575	4.75E-06
A	T	0.38	-0.1042878	0.0228341	7.14E-06
G	A	0.14	-0.1530076	0.03335069	6.52E-06
T	G	0.03	-0.3309523	0.0727883	7.82E-06
G	A	0.03	-0.3018076	0.06614647	7.29E-06
A	C	0.02	-0.526645	0.09349133	4.28E-08
TA	T	0.23	-0.125422	0.02731768	6.42E-06
A	G	0.04	-0.2732122	0.05799179	3.75E-06
A	AAAT	0.44	-0.0998588	0.02212971	9.09E-06
T	G	0.03	-0.3213752	0.06434492	1.01E-06
T	TA	0.03	-0.3263819	0.06709708	1.86E-06
T	A	0.03	-0.3242767	0.0656933	1.33E-06
G	A	0.01	-0.4437412	0.09865348	9.69E-06
C	T	0.01	-0.4437412	0.09865348	9.69E-06
A	C	0.01	-0.4437412	0.09865348	9.69E-06
G	A	0.09	-0.1900792	0.04097593	5.19E-06
CTTCTTTCTTCT	C	0.01	-0.4768117	0.1010742	3.64E-06
T	C	0.15	-0.1432669	0.03082788	5.00E-06
A	G	0.14	-0.1436354	0.03147376	7.26E-06
A	G	0.15	-0.1617999	0.03127876	4.29E-07
T	C	0.15	-0.1525337	0.03085693	1.28E-06

G	A	0.15	-0.1492717	0.03072796	1.91E-06
A	G	0.15	-0.1525337	0.03085693	1.28E-06
G	T	0.12	-0.1725714	0.03539115	1.76E-06
A	G	0.16	-0.1419636	0.03110282	7.23E-06
T	A	0.16	-0.1446778	0.03113842	5.02E-06
T	C	0.17	-0.1372139	0.03012843	7.56E-06
A	G	0.13	-0.1536087	0.03333193	5.95E-06
C	T	0.05	-0.2349835	0.05117647	6.41E-06
T	C	0.05	-0.2349835	0.05117647	6.41E-06
A	G	0.05	-0.2349835	0.05117647	6.41E-06
C	T	0.05	-0.2349835	0.05117647	6.41E-06
G	A	0.05	-0.2349835	0.05117647	6.41E-06
T	C	0.05	-0.2349835	0.05117647	6.41E-06
A	T	0.05	-0.2349835	0.05117647	6.41E-06
C	T	0.06	-0.2375484	0.05056006	3.97E-06
G	A	0.06	-0.2375484	0.05056006	3.97E-06
C	T	0.06	-0.2375484	0.05056006	3.97E-06
T	A	0.06	-0.2375484	0.05056006	3.97E-06
C	A	0.06	-0.2375484	0.05056006	3.97E-06
A	T	0.06	-0.2375484	0.05056006	3.97E-06
C	T	0.06	-0.2212447	0.04897888	8.91E-06
T	TA	0.02	-0.408381	0.08538828	2.71E-06
T	C	0.01	-0.5570954	0.1137315	1.59E-06
G	A	0.12	0.1703757	0.03774908	9.06E-06
C	T	0.01	-0.5000078	0.1099832	7.84E-06
G	A	0.03	-0.6445909	0.1068007	6.13E-09
A	G	0.03	-0.6445909	0.1068007	6.13E-09
G	A	0.03	-0.6189334	0.103119	6.28E-09
G	C	0.03	-0.6189334	0.103119	6.28E-09
T	C	0.01	-0.9082647	0.1453583	2.09E-09
C	CTG	0.22	-0.189155	0.03166143	8.07E-09
G	GTC	0.19	-0.2264503	0.03811448	9.67E-09
G	A	0.02	-0.4219893	0.08881896	3.13E-06
A	C	0.38	-0.1057986	0.02125301	1.09E-06
G	C	0.01	-0.5231208	0.09812995	1.98E-07
G	A	0.01	-0.6551601	0.110441	8.88E-09
A	G	0.01	-0.5681786	0.1026214	7.02E-08
G	C	0.01	-0.5681786	0.1026214	7.02E-08
AC	A	0.01	-0.5681786	0.1026214	7.02E-08
C	T	0.01	-0.5681786	0.1026214	7.02E-08
C	T	0.01	-0.5681786	0.1026214	7.02E-08
T	C	0.01	-0.4871813	0.09761414	1.03E-06
T	G	0.01	-0.4871813	0.09761414	1.03E-06
G	A	0.01	-0.5035957	0.1114978	8.93E-06
C	T	0.01	-0.5035957	0.1114978	8.93E-06
C	T	0.01	-0.4992804	0.1099949	8.09E-06
GGGGAA	G	0.01	-0.5035957	0.1114978	8.93E-06
C	CTG	0.44	0.09348746	0.0206961	8.91E-06
T	C	0.02	-0.3505768	0.07433065	3.66E-06
T	C	0.02	-0.3857005	0.08579735	9.79E-06

C	A	0.01	-0.5095018	0.1104646	5.85E-06
TCACACACACA	T	0.01	-0.4857804	0.1049869	5.47E-06
T	TAA	0.01	-0.4300779	0.09466771	7.95E-06
C	T	0.01	-0.4672574	0.1015225	6.11E-06
AT	A	0.01	-0.4923121	0.1091545	9.18E-06
G	T	0.01	-0.4923121	0.1091545	9.18E-06
C	G	0.02	-0.3953983	0.07704166	5.22E-07
A	C	0.01	-0.5165893	0.1049242	1.41E-06
G	A	0.01	-0.4669861	0.09566608	1.72E-06
G	C	0.01	-0.4669861	0.09566608	1.72E-06
C	A	0.01	-0.4669861	0.09566608	1.72E-06
C	T	0.01	-0.4882176	0.1007657	2.03E-06
T	C	0.01	-0.4669861	0.09566608	1.72E-06
A	G	0.01	-0.4882176	0.1007657	2.03E-06
T	C	0.01	-0.4669861	0.09566608	1.72E-06
T	C	0.01	-0.4669861	0.09566608	1.72E-06
C	G	0.01	-0.4669861	0.09566608	1.72E-06
G	A	0.02	-0.4011866	0.08912511	9.54E-06
C	T	0.11	-0.1593013	0.03495324	7.45E-06
G	A	0.45	0.09922806	0.02189737	8.36E-06
T	C	0.46	-0.1015966	0.02211184	6.32E-06
A	T	0.03	-0.3485872	0.0728549	2.68E-06
C	G	0.02	-0.3343493	0.07402956	8.93E-06
G	A	0.02	-0.3343493	0.07402956	8.93E-06
G	A	0.02	-0.3343493	0.07402956	8.93E-06
T	A	0.05	-0.2265496	0.05035706	9.65E-06
G	A	0.05	-0.2265496	0.05035706	9.65E-06
T	G	0.05	-0.2265496	0.05035706	9.65E-06
C	T	0.05	-0.2264641	0.05034959	9.69E-06
G	A	0.01	-0.438745	0.09705007	8.76E-06
C	A	0.01	-0.4741197	0.09964159	3.03E-06
C	CTT	0.01	-0.486696	0.1048589	5.13E-06
C	T	0.02	-0.3532514	0.07670392	6.03E-06
G	A	0.02	-0.4732991	0.09245817	5.57E-07
G	A	0.01	-0.4316445	0.09605287	9.86E-06
A	G	0.01	-0.4502186	0.09384373	2.53E-06
T	C	0.04	-0.24612	0.05388338	7.13E-06
G	T	0.02	-0.4012313	0.08934654	1.00E-05
C	T	0.01	-0.5091016	0.101021	8.15E-07
CT	C	0.31	-0.1109939	0.0237794	4.56E-06
T	C	0.02	-0.3618431	0.08038892	9.55E-06
G	A	0.02	-0.3660647	0.08029325	7.40E-06
C	T	0.02	-0.3660647	0.08029325	7.40E-06
A	G	0.03	-0.2862263	0.06149331	4.84E-06
A	ATG	0.02	-0.4138058	0.08293416	1.03E-06
T	A	0.02	-0.3693996	0.08070305	6.83E-06
'GTGTGTGTGTGTGTG	G	0.06	-0.2213883	0.04644816	2.92E-06
T	TCA	0.04	-0.2571452	0.05492071	4.28E-06
CCCCAA	C	0.03	-0.3193216	0.06849777	4.69E-06
T	G	0.02	-0.3890549	0.08258967	3.76E-06

G	A	0.01	-0.625885	0.1024561	3.42E-09
C	T	0.01	-0.5963328	0.09774903	3.57E-09
G	A	0.01	-0.5314231	0.1080239	1.44E-06
G	T	0.01	-0.5963328	0.09774903	3.57E-09
TTTCC	T	0.05	-0.2495426	0.0514192	1.96E-06
T	C	0.02	-0.3958689	0.08637433	6.66E-06
CT	C	0.45	-0.1040269	0.02300014	8.69E-06
C	A	0.01	-0.4431483	0.09865496	9.95E-06
GGGA	G	0.02	-0.4194169	0.08920892	3.92E-06
C	T	0.25	0.1125998	0.02495608	9.11E-06
G	GCA	0.02	-0.3441976	0.07379434	4.63E-06
TACACACAC	T	0.01	-0.434957	0.09470429	6.38E-06
T	A	0.02	-0.3772512	0.08190921	6.02E-06
T	A	0.02	-0.3772512	0.08190921	6.02E-06
G	A	0.02	-0.3971311	0.07266871	1.01E-07
A	G	0.02	-0.4607425	0.09400378	1.56E-06
C	T	0.04	-0.2682812	0.05645423	3.11E-06
A	G	0.01	-0.4758567	0.1042148	7.18E-06
CAGAGAG	C	0.01	-0.4519361	0.1002057	9.19E-06
T	C	0.06	-0.2203815	0.04656202	3.39E-06
G	GT	0.01	-0.4531309	0.09157224	1.25E-06
G	A	0.01	-0.5043016	0.1075439	4.14E-06
G	A	0.02	-0.3667158	0.0749336	1.62E-06
A	AAC	0.1	0.1748219	0.03831874	7.30E-06
G	A	0.05	-0.2407217	0.05239029	6.32E-06
A	C	0.05	-0.2407217	0.05239029	6.32E-06
C	T	0.02	-0.3784382	0.07947553	2.98E-06
C	T	0.02	-0.4292266	0.08825546	1.86E-06
C	T	0.02	-0.3946076	0.08768299	9.59E-06
TA	T	0.01	-0.4318559	0.09333279	5.47E-06
C	T	0.02	-0.3946076	0.08768299	9.59E-06
C	T	0.01	-0.4330002	0.09295978	4.77E-06
A	C	0.02	-0.3946076	0.08768299	9.59E-06
C	CATAGATAG	0.03	-0.3418674	0.07607051	9.85E-06
C	CAT	0.06	-0.2662378	0.05626373	3.41E-06
3TATATGTATATGTAT,	C	0.11	0.1847908	0.04032435	6.67E-06
C	T	0.03	-0.3699511	0.07901761	4.28E-06
ATG	A	0.15	-0.1731425	0.03623765	2.77E-06
C	A	0.3	0.1260218	0.02692326	4.30E-06
C	G	0.33	0.1192905	0.026298	8.19E-06
AGT	A	0.32	-0.1466966	0.02934201	9.85E-07
A	G	0.06	-0.2612503	0.05518178	3.37E-06
G	GGGGAGA	0.02	-0.5097799	0.1023398	1.07E-06
CCTCT	C	0.01	-0.5355073	0.1164352	6.20E-06
G	C	0.2	-0.140169	0.02987705	4.10E-06
C	A	0.37	-0.1213084	0.02557522	3.24E-06
C	G	0.18	-0.1488171	0.03299655	9.19E-06
A	G	0.18	-0.1488171	0.03299655	9.19E-06
G	A	0.04	-0.345525	0.06718022	4.95E-07
C	G	0.02	-0.4332477	0.08650732	9.46E-07

C	CGTGT	0.13	-0.1819981	0.04029702	8.94E-06
C	A	0.41	-0.1159054	0.02464632	3.89E-06
G	C	0.41	-0.1110672	0.02465038	9.36E-06
C	A	0.41	-0.1131426	0.02466153	6.52E-06
G	A	0.41	-0.1119099	0.02463206	7.94E-06
C	A	0.38	-0.1127268	0.02481443	7.96E-06
A	T	0.41	-0.1122853	0.02463356	7.43E-06
A	AATTG	0.4	-0.1184626	0.02465682	2.45E-06
T	C	0.02	-0.3928809	0.08687089	8.70E-06
A	T	0.46	-0.1142863	0.02542956	9.85E-06
A	G	0.06	-0.2744712	0.05235215	3.05E-07
C	CTTAT	0.02	-0.3850355	0.08300321	5.19E-06
T	C	0.04	-0.3100685	0.06760673	6.56E-06
T	TA	0.02	-0.4262031	0.08846905	2.31E-06
T	G	0.02	-0.4262031	0.08846905	2.31E-06
A	G	0.02	-0.4160382	0.09009796	5.71E-06
C	T	0.02	-0.4517935	0.08989154	8.69E-07
G	A	0.02	-0.4517935	0.08989154	8.69E-07
A	G	0.02	-0.4517935	0.08989154	8.69E-07
C	T	0.02	-0.4517935	0.08989154	8.69E-07
T	C	0.02	-0.4517935	0.08989154	8.69E-07
C	T	0.08	-0.2109997	0.0457954	5.97E-06
C	T	0.45	0.1168785	0.02523	5.34E-06
G	A	0.48	0.1164015	0.02524643	5.89E-06
C	T	0.48	0.1199295	0.02532794	3.36E-06
A	G	0.49	0.1151962	0.02529622	7.58E-06
T	C	0.06	-0.2474347	0.05473781	8.78E-06
A	G	0.01	-0.5750112	0.123996	5.23E-06
A	T	0.01	-0.548958	0.1153798	3.03E-06
A	C	0.01	-0.5429618	0.1195996	8.06E-06
G	A	0.24	-0.1374034	0.03005661	7.01E-06
C	T	0.23	-0.1365114	0.0300488	7.95E-06
CTG	C	0.23	-0.1379719	0.03004617	6.40E-06
C	T	0.23	-0.141021	0.03032729	4.94E-06
T	A	0.02	0.9621272	0.2022056	3.21E-06
A	C	0.02	0.9621272	0.2022056	3.21E-06
G	A	0.02	1.192225	0.2290101	3.97E-07
C	T	0.01	1.104518	0.2428272	8.14E-06
T	C	0.41	0.260628	0.05701527	7.37E-06
G	3GTTTCATATGAATGA	0.01	0.9379069	0.2042403	6.72E-06
G	A	0.01	1.172645	0.2439862	2.58E-06
A	G	0.02	1.059864	0.2317727	7.32E-06
A	AT	0.01	1.017194	0.224326	8.65E-06
G	T	0.02	1.190044	0.2313691	5.36E-07
T	C	0.02	1.190044	0.2313691	5.36E-07
G	A	0.02	1.099948	0.2278602	2.34E-06
A	G	0.02	1.099948	0.2278602	2.34E-06
G	A	0.03	0.7904857	0.1607068	1.54E-06
T	G	0.02	0.9265484	0.20074	6.06E-06
AACAC	A	0.04	0.718147	0.1578089	8.06E-06

T	TA	0.08	0.4768033	0.105185	8.71E-06
C	T	0.02	0.9687828	0.2147113	9.54E-06
TA	T	0.05	0.7719259	0.1314756	1.40E-08
C	T	0.13	0.3775542	0.0834532	9.05E-06
T	A	0.04	0.7086285	0.1503477	3.93E-06
G	A	0.02	0.9445164	0.1973093	2.82E-06
C	A	0.02	0.8830881	0.1933258	7.48E-06
C	A	0.02	0.9816713	0.207064	3.47E-06
G	A	0.33	0.2670293	0.05921512	9.65E-06
A	G	0.4	0.2572018	0.05630919	7.48E-06
A	G	0.4	0.2553183	0.05617443	8.26E-06
C	T	0.34	0.2907987	0.06000149	2.15E-06
G	C	0.4	0.2563749	0.05602231	7.21E-06
A	G	0.02	1.148197	0.2234501	5.48E-07
C	T	0.01	1.179314	0.2618179	9.86E-06
C	T	0.32	0.2921787	0.062267	4.31E-06
A	G	0.32	0.289324	0.06235504	5.44E-06
C	T	0.04	0.7836045	0.1510178	4.31E-07
A	G	0.02	0.8748331	0.1820595	2.59E-06
T	C	0.02	0.9253958	0.1977929	4.58E-06
A	C	0.01	1.154418	0.2523433	7.25E-06
C	T	0.01	1.154418	0.2523433	7.25E-06
G	T	0.01	1.177857	0.2424284	2.03E-06
G	T	0.01	1.39174	0.3085335	9.59E-06
G	A	0.02	1.137537	0.2522472	9.64E-06
C	T	0.03	0.9629219	0.1835981	3.29E-07
A	G	0.03	0.888842	0.1791718	1.27E-06
G	A	0.03	1.020928	0.1869301	1.14E-07
G	C	0.02	1.164382	0.2456014	3.47E-06
A	G	0.03	1.020928	0.1869301	1.14E-07
C	T	0.02	1.164382	0.2456014	3.47E-06
C	G	0.02	1.152584	0.2212944	3.92E-07
A	G	0.02	1.06168	0.2157005	1.52E-06
C	T	0.02	1.063746	0.2144446	1.27E-06
C	A	0.01	1.654437	0.2851285	2.01E-08
A	C	0.01	1.654437	0.2851285	2.01E-08
G	A	0.01	1.654437	0.2851285	2.01E-08
C	T	0.02	1.152584	0.2212944	3.92E-07
G	C	0.02	1.02099	0.2150074	3.35E-06
C	A	0.02	0.7800852	0.16694	4.70E-06
T	C	0.13	0.4046642	0.08386522	2.37E-06
A	G	0.14	0.393427	0.08237278	2.96E-06
T	A	0.01	1.27473	0.2692183	3.56E-06
G	A	0.24	-0.2965789	0.06545153	8.77E-06
A	G	0.01	1.215662	0.254454	2.94E-06
A	G	0.02	1.084138	0.2388346	8.47E-06
G	A	0.01	1.300142	0.2506874	4.36E-07
A	G	0.03	0.8291734	0.1804571	6.64E-06
C	A	0.01	1.212279	0.2611443	5.39E-06
G	A	0.02	1.155562	0.2371925	1.91E-06

A	C	0.04	0.7487418	0.1523277	1.56E-06
AAAAT	A	0.02	1.235633	0.2415946	6.15E-07
T	A	0.02	1.174992	0.2457186	2.88E-06
CA	C	0.02	0.924309	0.1871587	1.40E-06
A	C	0.02	1.035688	0.1945185	2.23E-07
A	AAC	0.08	0.4773212	0.1052245	8.59E-06
G	A	0.06	0.5485041	0.1208902	8.55E-06
G	A	0.06	0.5863881	0.1194543	1.61E-06
G	A	0.1	0.4558435	0.09416162	2.20E-06
CTG	C	0.1	0.4394926	0.09290995	3.64E-06
A	G	0.1	0.4385346	0.09234574	3.35E-06
TGC	T	0.12	0.4254786	0.09159099	5.31E-06
C	T	0.06	0.5146536	0.1128468	7.72E-06
GA	G	0.08	0.4651686	0.1031934	9.72E-06
CTTTG	C	0.06	0.5173093	0.1132398	7.46E-06
T	A	0.06	0.5447642	0.1149876	3.52E-06
C	T	0.03	0.8105419	0.1597562	7.46E-07
G	T	0.03	0.7702324	0.1624096	3.44E-06
T	C	0.01	1.658554	0.277164	7.76E-09
G	A	0.13	-0.3830274	0.08296895	6.04E-06
C	G	0.13	-0.3830274	0.08296895	6.04E-06
T	C	0.13	-0.3830274	0.08296895	6.04E-06
A	C	0.1	-0.4394933	0.09612152	7.34E-06
C	A	0.09	-0.4741938	0.09709612	1.81E-06
C	T	0.01	1.468731	0.2548935	2.47E-08
G	A	0.01	1.288045	0.246591	3.65E-07
T	C	0.01	1.288045	0.246591	3.65E-07
C	G	0.01	1.288045	0.246591	3.65E-07
G	T	0.01	1.288045	0.246591	3.65E-07
C	T	0.01	1.288045	0.246591	3.65E-07
G	A	0.01	1.288045	0.246591	3.65E-07
A	C	0.01	1.468731	0.2548935	2.47E-08
G	A	0.01	1.202201	0.2540199	3.60E-06
A	G	0.01	1.140131	0.2503446	7.94E-06
C	T	0.01	1.2295	0.2577551	3.04E-06
C	T	0.34	0.2661678	0.05854087	8.20E-06
C	T	0.05	0.5260198	0.0870773	5.96E-09
T	TA	0.04	0.5715584	0.08915251	8.08E-10
G	A	0.02	1.175778	0.1979688	9.82E-09
AAAAT	A	0.01	0.9099528	0.1484725	3.81E-09
T	A	0.01	0.9084317	0.1516963	8.00E-09
AAAAT	A	0.02	0.880136	0.1411149	2.00E-09
T	C	0.01	0.8823721	0.1458617	6.78E-09
T	C	0.01	0.7693962	0.1271315	5.65E-09
C	T	0.03	0.8571729	0.1756054	1.75E-06
C	T	0.04	0.6928656	0.1426497	1.96E-06
CAG	C	0.03	0.7158072	0.1580264	8.56E-06
A	G	0.01	1.227218	0.2725157	9.61E-06
G	A	0.04	0.6820028	0.1451437	4.04E-06
C	A	0.01	1.078478	0.2386108	8.94E-06

G	C	0.05	0.6422452	0.1263208	6.75E-07
A	T	0.01	1.133965	0.2321855	1.73E-06
C	A	0.03	0.7400062	0.158845	4.84E-06
G	GTTTGT	0.01	1.343768	0.2714226	1.27E-06
.TGTGTGTGTGTGTGT	C	0.02	0.8679372	0.1920188	8.93E-06
A	G	0.01	1.194933	0.2424027	1.40E-06
C	T	0.01	1.194933	0.2424027	1.40E-06
G	GACAC	0.02	0.9906554	0.1958426	7.63E-07
iAAGGAAGGAAAAGA	G	0.01	1.077171	0.2352989	6.93E-06
C	T	0.02	1.181734	0.2269753	3.75E-07
C	T	0.01	1.252012	0.2327344	1.60E-07
G	C	0.01	1.147084	0.2431119	3.70E-06
G	C	0.09	0.4667618	0.09667703	2.24E-06
C	T	0.09	0.4665323	0.09873703	3.59E-06
A	G	0.09	0.4665323	0.09873703	3.59E-06
C	T	0.09	0.4665323	0.09873703	3.59E-06
G	A	0.09	0.4622292	0.0984497	4.11E-06
G	T	0.08	0.5180061	0.1031578	9.09E-07
G	C	0.09	0.476994	0.09950906	2.63E-06
A	AT	0.2	-0.3327604	0.07308013	7.72E-06
G	A	0.01	1.117783	0.2425739	6.06E-06
G	T	0.03	0.6731624	0.1492682	9.34E-06
A	T	0.03	0.7992754	0.1601224	1.05E-06
C	G	0.02	0.9602821	0.2000763	2.55E-06
C	T	0.02	1.060053	0.2351633	9.42E-06
C	CTTT	0.02	0.7860793	0.1747381	9.81E-06
C	T	0.02	1.124373	0.2008028	5.28E-08
G	A	0.02	0.9674273	0.2101326	6.17E-06
G	C	0.02	0.9674273	0.2101326	6.17E-06
A	C	0.02	0.9674273	0.2101326	6.17E-06
G	A	0.02	0.9674273	0.2101326	6.17E-06
A	G	0.04	0.7349557	0.1382733	2.20E-07
A	G	0.02	1.026327	0.2237871	6.68E-06
G	A	0.01	1.196783	0.2460766	1.90E-06
T	G	0.04	0.7743246	0.1441026	1.65E-07
C	G	0.18	0.3561355	0.07131729	1.04E-06
G	T	0.02	1.122036	0.2213002	7.22E-07
T	C	0.02	1.122036	0.2213002	7.22E-07
G	A	0.01	1.171581	0.2377779	1.42E-06
C	G	0.02	0.999432	0.2100205	3.08E-06
C	T	0.02	1.064344	0.2169242	1.56E-06
T	A	0.02	1.019398	0.2168162	3.99E-06
T	G	0.02	1.034574	0.2251974	6.45E-06
T	G	0.02	1.034574	0.2251974	6.45E-06
G	A	0.01	1.065198	0.2338061	7.63E-06
ATG	A	0.12	0.4318312	0.08678866	1.13E-06
GCAAT	G	0.02	0.9626734	0.1999114	2.38E-06
T	C	0.01	1.38082	0.2458818	4.85E-08
A	C	0.01	1.298042	0.2466656	2.85E-07
G	GGA	0.01	1.443807	0.253596	3.26E-08

T	TTCTTTCTTTCTTTC	0.01	1.25836	0.2577476	1.75E-06
GA	G	0.07	0.502036	0.1060537	3.45E-06
G	A	0.01	1.252356	0.2707064	5.59E-06
A	C	0.01	1.252356	0.2707064	5.59E-06
C	T	0.01	1.252356	0.2707064	5.59E-06
C	G	0.01	1.090241	0.2368497	6.19E-06
G	C	0.01	1.323052	0.2482516	2.05E-07
G	C	0.01	1.323052	0.2482516	2.05E-07
G	A	0.08	0.446986	0.09829601	7.92E-06
C	G	0.01	1.206428	0.2627087	6.50E-06
G	A	0.01	1.206428	0.2627087	6.50E-06
C	T	0.01	1.206428	0.2627087	6.50E-06
T	C	0.01	1.206428	0.2627087	6.50E-06
AC	A	0.01	1.206428	0.2627087	6.50E-06
T	A	0.01	1.177598	0.2594779	8.24E-06
C	T	0.04	0.6381161	0.1375522	5.28E-06
A	AATTT	0.03	0.7647807	0.1561936	1.64E-06
CAT	C	0.04	0.5822634	0.1245519	4.50E-06
A	G	0.11	0.3837638	0.08459554	8.31E-06
A	G	0.12	0.4147223	0.08201791	7.70E-07
T	C	0.12	0.4072131	0.08202496	1.19E-06
A	G	0.12	0.3967327	0.08122732	1.73E-06
G	C	0.12	0.4218681	0.08215953	5.30E-07
A	C	0.12	0.4147561	0.08104888	5.76E-07
T	C	0.13	0.3925514	0.07871477	1.07E-06
C	G	0.13	0.4013407	0.07944677	7.88E-07
A	T	0.11	0.403657	0.08446308	2.81E-06
C	A	0.41	0.2630389	0.05551716	3.38E-06
A	AAAAG	0.02	0.8985799	0.1845641	1.86E-06
AAAAAAAAAAGAG	A	0.01	1.130614	0.2322158	1.86E-06
C	CAA	0.02	0.8772585	0.1936984	8.59E-06
C	T	0.01	1.062147	0.2317137	6.74E-06
C	G	0.02	1.057322	0.2193891	2.33E-06
T	C	0.04	0.6383025	0.130943	1.81E-06
A	G	0.04	0.6698478	0.1343646	1.08E-06
T	C	0.02	1.176964	0.2241502	3.02E-07
A	G	0.01	1.160886	0.2551698	7.85E-06
G	A	0.02	1.017181	0.1836979	7.25E-08
TTTTATTTA	T	0.01	1.113358	0.2408594	5.68E-06
C	T	0.07	0.5093682	0.1059724	2.47E-06
A	G	0.01	1.094996	0.2231837	1.56E-06
T	G	0.01	1.074723	0.2367307	8.19E-06
C	T	0.01	1.103359	0.2300694	2.60E-06
A	G	0.1	0.4283358	0.08595399	1.09E-06
G	A	0.04	0.6800478	0.1457527	4.68E-06
G	T	0.04	0.6096828	0.1320358	5.81E-06
A	G	0.08	0.4612699	0.1001063	6.07E-06
C	A	0.08	0.4612699	0.1001063	6.07E-06
G	A	0.05	0.6355677	0.1231545	4.67E-07
G	A	0.05	0.5513752	0.1196156	6.02E-06

C	T	0.05	0.5513752	0.1196156	6.02E-06
AG	A	0.05	0.5713439	0.1202181	3.17E-06
C	T	0.02	0.9839863	0.2174001	8.70E-06
G	T	0.01	1.115117	0.2462878	8.64E-06
C	G	0.04	0.6537396	0.1375566	3.17E-06
A	G	0.44	-0.2645611	0.0561483	3.81E-06
T	A	0.42	-0.2587096	0.05732677	9.21E-06
A	G	0.43	-0.2737172	0.05675662	2.30E-06
C	T	0.01	1.118727	0.2291054	1.74E-06
G	A	0.02	0.9368378	0.2073989	9.05E-06
T	C	0.01	1.089164	0.2262663	2.40E-06
TA	T	0.18	-0.3301618	0.07212806	6.94E-06
TC	T	0.04	0.6561093	0.1364729	2.46E-06
T	C	0.02	1.024375	0.1902234	1.56E-07
C	A	0.02	0.9835744	0.2105462	4.56E-06
C	T	0.02	1.03579	0.2206997	4.14E-06
C	A	0.01	1.095252	0.2421315	8.80E-06
CTT	C	0.02	0.9821981	0.2099754	4.44E-06
T	G	0.03	0.7689278	0.1641998	4.34E-06
C	T	0.01	1.168699	0.2363623	1.31E-06
A	G	0.01	1.15401	0.2452092	3.90E-06
A	G	0.01	1.152278	0.2392492	2.37E-06
T	C	0.01	1.251475	0.2501802	9.96E-07
TAC	T	0.03	0.7329688	0.159921	6.76E-06
C	T	0.01	1.223423	0.2473478	1.30E-06
G	C	0.01	1.223423	0.2473478	1.30E-06
C	A	0.01	1.018705	0.2214979	6.30E-06
A	T	0.02	0.928976	0.1941359	2.73E-06
C	T	0.02	0.928976	0.1941359	2.73E-06
A	C	0.02	0.928976	0.1941359	2.73E-06
T	TTGTG	0.02	0.8673161	0.1778827	1.80E-06
G	A	0.22	0.2830163	0.06294718	9.92E-06
A	T	0.22	0.2830163	0.06294718	9.92E-06
C	T	0.01	1.146361	0.2527808	8.36E-06
C	T	0.02	1.018152	0.2078758	1.62E-06
G	A	0.02	0.8535636	0.1865568	7.00E-06
A	G	0.02	0.8535636	0.1865568	7.00E-06
G	A	0.02	0.9681728	0.2000379	2.12E-06
C	A	0.01	1.274525	0.2567211	1.19E-06
G	A	0.02	1.077851	0.2259892	2.93E-06
C	T	0.04	0.6122368	0.1336777	6.86E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06

CT	C	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	GA	0.01	1.158183	0.2445109	3.40E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
C	G	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
CA	C	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
CAT	C	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.238786	0.2475612	9.88E-07
A	G	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
T	TA	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06

A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.143875	0.2486902	6.29E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
GC	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
AC	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.158183	0.2445109	3.40E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
AT	A	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.163848	0.2500658	4.93E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
C	CAGTT	0.01	1.120917	0.2375136	3.68E-06
TC	T	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
TAGTC	T	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	GA	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
TTGC	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	GTA	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.02	1.05519	0.227745	5.42E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06

A	T	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
CT	C	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
C	G	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
C	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06
C	G	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.120917	0.2375136	3.68E-06
A	C	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
GTTC	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
T	C	0.01	1.120917	0.2375136	3.68E-06

C	T	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
A	T	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
T	G	0.01	1.120917	0.2375136	3.68E-06
T	A	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
G	T	0.01	1.157198	0.2553068	8.45E-06
G	A	0.01	1.120917	0.2375136	3.68E-06
A	G	0.01	1.120917	0.2375136	3.68E-06
C	T	0.01	1.120917	0.2375136	3.68E-06
G	C	0.01	1.271677	0.2612248	1.86E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
G	C	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
T	TGC	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
TG	T	0.02	0.907143	0.1932816	4.14E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.220816	0.2595328	3.95E-06
AACAGGAAT	A	0.01	1.216566	0.2640859	6.10E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
G	C	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06

A	G	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
T	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
A	C	0.01	1.175945	0.2526446	4.93E-06
AAGAAAG	A	0.01	1.175945	0.2526446	4.93E-06
GCGGTCATA	G	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
GAGGA	G	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
C	G	0.01	1.175945	0.2526446	4.93E-06
A	T	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
A	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
A	T	0.01	1.175945	0.2526446	4.93E-06
A	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	A	0.01	1.175945	0.2526446	4.93E-06
TG	T	0.01	1.175945	0.2526446	4.93E-06

C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	GGGGC	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.246858	0.2693058	5.50E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.182165	0.244242	2.12E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
GT	G	0.01	1.175945	0.2526446	4.93E-06
G	C	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
TAG	T	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	C	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
T	TAA	0.01	1.175945	0.2526446	4.93E-06
CAG	C	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
TGA	T	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.226119	0.2437543	8.73E-07
A	T	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	C	0.07	0.4485103	0.09971645	9.84E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
T	TTA	0.01	1.229968	0.2493585	1.38E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
T	A	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
A	C	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.220816	0.2595328	3.95E-06
A	G	0.01	1.198484	0.2442182	1.55E-06
C	T	0.01	1.175945	0.2526446	4.93E-06

G	A	0.01	1.175945	0.2526446	4.93E-06
T	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
T	TC	0.01	1.175945	0.2526446	4.93E-06
A	C	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	C	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
T	C	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
A	G	0.01	1.175945	0.2526446	4.93E-06
C	T	0.01	1.175945	0.2526446	4.93E-06
T	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
T	G	0.01	1.175945	0.2526446	4.93E-06
G	A	0.01	1.175945	0.2526446	4.93E-06
G	T	0.01	1.175945	0.2526446	4.93E-06
T	C	0.13	-0.3680283	0.08066374	7.41E-06
A	G	0.07	0.4542623	0.09983339	7.82E-06
G	T	0.09	0.4373842	0.08907111	1.53E-06
G	C	0.01	1.191994	0.2360324	7.94E-07
C	T	0.01	1.170963	0.2573598	7.83E-06
C	T	0.02	1.147085	0.1975943	1.82E-08
T	G	0.03	0.8526996	0.1758586	2.04E-06
T	TTATA	0.02	1.113826	0.2104074	2.45E-07
G	T	0.03	0.7018072	0.1481616	3.40E-06
C	T	0.02	0.8570128	0.1842167	4.98E-06
C	A	0.02	1.033761	0.2168572	2.96E-06
G	A	0.02	0.85647	0.1764481	1.99E-06
A	G	0.01	1.166912	0.2546164	6.77E-06
C	T	0.02	1.023641	0.2128172	2.44E-06
T	C	0.02	1.004482	0.221087	8.06E-06
T	C	0.02	1.004482	0.221087	8.06E-06
A	G	0.02	1.011901	0.2126923	3.09E-06
T	C	0.02	1.004482	0.221087	8.06E-06
A	G	0.02	1.004482	0.221087	8.06E-06
G	A	0.01	0.8723121	0.1858926	4.15E-06
A	T	0.02	0.9440148	0.206054	6.82E-06
ATC	A	0.01	1.101448	0.2449209	9.87E-06
C	A	0.01	1.21131	0.249734	2.02E-06
G	A	0.02	0.9661021	0.2073728	4.83E-06
CTGTT	C	0.02	0.8761207	0.1898089	5.85E-06
C	T	0.02	1.088291	0.2273123	2.70E-06
C	G	0.02	0.8627849	0.1825834	3.58E-06
C	T	0.01	1.147005	0.2466151	5.00E-06
G	A	0.02	1.008045	0.2103651	2.65E-06
G	A	0.02	1.027919	0.1907848	1.54E-07
G	A	0.01	1.274338	0.2498741	6.26E-07

C	T	0.01	1.166473	0.2423089	2.39E-06
C	A	0.01	1.277288	0.2643608	2.21E-06
C	T	0.02	1.000621	0.193061	4.20E-07
A	ACACACTACAGTG	0.01	1.051584	0.2190254	2.54E-06
C	A	0.01	1.282173	0.2429497	2.65E-07
T	C	0.02	1.005981	0.213593	3.84E-06
C	CT	0.01	1.17006	0.2569732	7.72E-06
C	T	0.01	1.17006	0.2569732	7.72E-06
A	G	0.02	0.7812257	0.1596745	1.66E-06
C	T	0.02	1.073102	0.2201383	1.81E-06
G	A	0.02	0.8050602	0.1722037	4.49E-06
C	A	0.01	0.9857352	0.2132191	5.67E-06
C	G	0.3	-0.2790059	0.05544944	8.66E-07
A	G	0.35	-0.2676164	0.05656373	3.49E-06
A	G	0.34	-0.2631421	0.05734161	6.59E-06
G	A	0.36	-0.2579703	0.05658322	7.52E-06
A	G	0.35	-0.2575532	0.05644943	7.41E-06
G	A	0.35	-0.2647193	0.05652037	4.32E-06
G	A	0.35	-0.264359	0.05655342	4.50E-06
C	T	0.17	0.3219572	0.07133673	9.20E-06
G	C	0.01	1.294367	0.2163285	7.20E-09
G	GGA	0.01	1.083727	0.1827228	9.61E-09
TC	T	0.04	0.5391537	0.09002172	7.47E-09
A	ACACACTACAGTG	0.01	0.9578391	0.1582224	6.02E-09
G	C	0.01	1.322139	0.2158974	3.32E-09
C	T	0.01	1.396883	0.2349363	8.65E-09
C	T	0.02	0.9172455	0.1485955	3.08E-09
C	CTGTGTGTG	0.01	1.048181	0.1720533	4.56E-09
T	C	0.01	1.165907	0.1929594	5.94E-09
A	C	0.01	1.124249	0.1867537	6.68E-09
G	GGA	0.01	1.301448	0.2056263	1.27E-09
A	G	0.1	0.3333186	0.05546169	6.17E-09
C	T	0.02	0.8408121	0.1418954	9.63E-09
G	GGA	0.01	1.012009	0.170133	8.66E-09
G	GGA	0.01	0.9917239	0.1654895	7.02E-09
A	G	0.1	0.342646	0.05671947	5.42E-09
G	GGA	0.01	1.139828	0.1805787	1.33E-09
C	T	0.01	0.9575029	0.1572265	5.13E-09
C	T	0.01	1.015204	0.167287	5.17E-09
A	G	0.04	0.6048134	0.09988025	4.81E-09
CTT	C	0.02	1.231188	0.2062402	9.39E-09
G	A	0.07	-0.2486789	0.05134292	2.05E-06
A	G	0.35	-0.132256	0.02682592	1.37E-06
A	T	0.34	-0.1256211	0.02664264	3.68E-06
T	C	0.36	-0.1339238	0.02659588	8.31E-07
T	C	0.35	-0.1257974	0.0268569	4.24E-06
A	G	0.36	-0.1198261	0.0265679	9.18E-06
G	T	0.02	-0.4071789	0.08517786	2.74E-06
G	T	0.02	-0.4250816	0.0877287	2.03E-06
G	A	0.02	-0.4250816	0.0877287	2.03E-06

C	G	0.02	-0.4250816	0.0877287	2.03E-06
T	C	0.02	-0.4250816	0.0877287	2.03E-06
T	C	0.02	-0.4250816	0.0877287	2.03E-06
A	T	0.02	-0.4250816	0.0877287	2.03E-06
A	G	0.02	-0.4648323	0.09710051	2.65E-06
A	G	0.01	-0.519294	0.1104267	3.90E-06
T	TG	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
G	A	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
C	T	0.01	-0.519294	0.1104267	3.90E-06
G	GA	0.01	-0.519294	0.1104267	3.90E-06
T	A	0.01	-0.519294	0.1104267	3.90E-06
G	A	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.5126344	0.1132377	8.53E-06
C	CA	0.01	-0.519294	0.1104267	3.90E-06
T	G	0.01	-0.519294	0.1104267	3.90E-06
G	A	0.01	-0.519294	0.1104267	3.90E-06
G	C	0.01	-0.519294	0.1104267	3.90E-06
C	T	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
A	T	0.01	-0.519294	0.1104267	3.90E-06
G	A	0.01	-0.519294	0.1104267	3.90E-06
C	T	0.01	-0.519294	0.1104267	3.90E-06
A	T	0.01	-0.519294	0.1104267	3.90E-06
C	T	0.01	-0.519294	0.1104267	3.90E-06
GA	G	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
A	G	0.01	-0.519294	0.1104267	3.90E-06
A	T	0.01	-0.519294	0.1104267	3.90E-06
T	TGTA	0.01	-0.519294	0.1104267	3.90E-06
T	C	0.01	-0.519294	0.1104267	3.90E-06
C	T	0.01	-0.519294	0.1104267	3.90E-06
A	C	0.07	-0.2362164	0.05085654	5.06E-06
T	A	0.07	-0.2362164	0.05085654	5.06E-06
A	G	0.46	0.1167197	0.02511024	4.98E-06
A	C	0.5	-0.1172965	0.02563946	6.91E-06
A	T	0.5	-0.1176869	0.02572757	6.92E-06
G	A	0.5	-0.1157744	0.02575769	9.82E-06
T	C	0.5	-0.1186452	0.02565952	5.55E-06
G	A	0.5	-0.1204706	0.02570124	4.18E-06
C	T	0.49	-0.1164787	0.02570833	8.39E-06
AT	A	0.5	-0.1158043	0.02571282	9.44E-06
G	A	0.5	-0.1157744	0.02575769	9.82E-06
A	G	0.03	-0.3535777	0.07687492	6.19E-06
G	GA	0.16	-0.1736202	0.03609117	2.38E-06
G	A	0.43	0.125023	0.02627446	3.03E-06
G	A	0.43	0.1211233	0.02621028	5.62E-06
C	T	0.43	0.1263423	0.02615875	2.18E-06

T	TG	0.15	0.1688879	0.03641673	5.22E-06
T	C	0.15	0.1760186	0.0359448	1.60E-06
C	CA	0.04	-0.3006199	0.06565455	6.79E-06
A	T	0.33	-0.1264833	0.02676512	3.51E-06
G	A	0.17	-0.1552209	0.03423124	8.25E-06
A	G	0.2	0.147937	0.03209308	5.92E-06
G	A	0.1	0.2046176	0.04544298	9.49E-06
G	A	0.02	-0.4098246	0.08698778	3.75E-06
C	CA	0.24	-0.1507307	0.03111395	2.04E-06
C	CTGTGTG	0.15	-0.1711785	0.03734861	6.65E-06
C	CTGTG	0.02	-0.4432082	0.09376343	3.49E-06
G	T	0.19	-0.1442499	0.03202037	9.40E-06
T	A	0.05	0.2803865	0.0619424	8.55E-06
G	A	0.01	-0.9606611	0.161775	8.68E-09
A	AT	0.16	-0.1586703	0.03514639	9.01E-06
G	A	0.17	0.1471144	0.03238126	7.94E-06
GGATGGTTAGCTAGA	G	0.46	0.1152384	0.02549061	8.76E-06
C	T	0.47	0.1210596	0.02545658	3.06E-06
A	G	0.47	0.1163686	0.02547299	7.11E-06
C	T	0.47	0.1163686	0.02547299	7.11E-06
G	A	0.47	0.1146005	0.02545435	9.51E-06
G	A	0.47	0.1160534	0.0254967	7.65E-06
G	T	0.11	0.1966941	0.04104362	2.59E-06
T	C	0.12	0.1770774	0.03942801	9.98E-06
T	C	0.11	0.1855473	0.04101205	8.63E-06
C	T	0.47	-0.1346094	0.02550834	2.58E-07
T	C	0.33	0.1226367	0.02686787	7.23E-06
T	C	0.04	0.3165965	0.07031223	9.49E-06
C	T	0.03	0.3331632	0.07281536	6.89E-06
G	A	0.03	0.3331632	0.07281536	6.89E-06
C	G	0.03	0.339411	0.07204816	3.75E-06
A	G	0.03	0.3331632	0.07281536	6.89E-06
G	T	0.03	0.339411	0.07204816	3.75E-06
A	G	0.04	0.3306429	0.07078442	4.49E-06
T	G	0.03	0.339411	0.07204816	3.75E-06
T	C	0.03	0.3487608	0.07332859	3.06E-06
G	A	0.03	0.3487608	0.07332859	3.06E-06
C	T	0.03	0.3487608	0.07332859	3.06E-06
G	C	0.03	0.3487608	0.07332859	3.06E-06
T	G	0.03	0.3487608	0.07332859	3.06E-06
T	G	0.03	0.3487608	0.07332859	3.06E-06
C	T	0.03	0.3487608	0.07332859	3.06E-06
TTTCCTTCC	T	0.2	-0.151412	0.03268201	5.33E-06
C	T	0.05	0.2701697	0.05902592	6.84E-06
C	T	0.05	0.2663742	0.05835054	7.21E-06
TC	T	0.05	0.2775859	0.0571156	1.89E-06
CT	C	0.05	0.2775859	0.0571156	1.89E-06
G	A	0.05	0.2596228	0.05655563	6.44E-06
C	T	0.05	0.2685683	0.05684572	3.53E-06
T	C	0.05	0.2685683	0.05684572	3.53E-06

C	T	0.05	0.2685683	0.05684572	3.53E-06
G	A	0.05	0.2685683	0.05684572	3.53E-06
G	A	0.07	0.2325106	0.04969077	4.33E-06
C	T	0.05	0.2685683	0.05684572	3.53E-06
A	G	0.07	0.2291492	0.04794032	2.74E-06
A	T	0.05	0.2637326	0.05721836	5.93E-06
TCACACA	T	0.05	0.2693573	0.05893516	7.04E-06
A	T	0.05	0.2685683	0.05684572	3.53E-06
A	G	0.09	0.213105	0.04349187	1.57E-06
T	C	0.06	0.2494557	0.05348828	4.64E-06
C	A	0.07	0.2338423	0.04977661	3.98E-06
GT	G	0.07	0.2535838	0.05138492	1.34E-06
T	C	0.05	0.2747582	0.05656239	1.92E-06
T	C	0.05	0.2593275	0.05755415	9.36E-06
T	C	0.05	0.2593275	0.05755415	9.36E-06
T	C	0.05	0.2592319	0.05749748	9.25E-06
A	AT	0.24	0.1471331	0.03106409	3.34E-06
A	G	0.19	0.1503085	0.03294477	7.30E-06
T	A	0.2	0.1593776	0.03242543	1.47E-06
A	C	0.2	0.1602608	0.0329207	1.83E-06
C	T	0.2	0.1567019	0.03313231	3.45E-06
C	CTGTTG	0.19	0.1674591	0.03323972	8.21E-07
G	A	0.2	0.1618105	0.03295909	1.51E-06
T	A	0.19	0.1587326	0.03317505	2.68E-06
T	C	0.2	0.1544449	0.03276882	3.72E-06
C	T	0.2	0.1582487	0.03258909	1.93E-06
G	GT	0.2	0.1558883	0.03309075	3.75E-06
T	G	0.09	-0.2014609	0.04432891	7.89E-06
G	T	0.11	-0.2044581	0.04411929	5.30E-06
G	A	0.1	-0.2088734	0.04513257	5.45E-06
G	C	0.11	-0.2071027	0.04337209	2.80E-06
A	C	0.11	-0.2025209	0.04361132	5.08E-06
T	A	0.39	0.1187583	0.02638283	9.54E-06
G	A	0.02	0.4278784	0.088258	2.00E-06
A	G	0.4	-0.126399	0.0269308	4.06E-06
C	CA	0.12	0.1837228	0.04090346	9.96E-06
T	G	0.01	0.8921762	0.1497362	7.77E-09
G	A	0.04	-0.318527	0.04823334	2.14E-10
TA	T	0.19	-0.226808	0.03809055	7.92E-09
G	A	0.01	-0.4951776	0.1090827	8.07E-06
A	G	0.03	-0.350515	0.07515272	4.64E-06
G	A	0.03	-0.350515	0.07515272	4.64E-06
C	CGG	0.04	-0.3170788	0.06925862	6.80E-06
G	T	0.43	-0.1206079	0.02613484	5.78E-06
AGT	A	0.43	-0.1173153	0.02594291	8.72E-06
T	C	0.14	-0.167439	0.03656251	6.76E-06
T	C	0.14	-0.1691569	0.0371817	7.73E-06
T	G	0.01	-0.505565	0.1067589	3.36E-06
T	A	0.01	-0.5727732	0.1238211	5.50E-06
T	TTGTGTGTG	0.08	-0.2390462	0.04875165	1.55E-06

G	A	0.1	-0.1991366	0.04076756	1.69E-06
G	A	0.05	-0.2811194	0.05886649	2.80E-06
C	A	0.19	0.1410338	0.03118216	8.68E-06
C	A	0.22	0.1315869	0.02771085	3.16E-06
T	G	0.39	0.116204	0.02571043	8.81E-06
C	A	0.39	-0.118781	0.02578949	6.02E-06
A	T	0.39	-0.1180652	0.02575122	6.61E-06
A	G	0.39	-0.1185956	0.02571732	5.87E-06
C	T	0.3	-0.1341464	0.02804004	2.69E-06
C	G	0.3	-0.1352329	0.02800712	2.19E-06
C	T	0.3	-0.1441871	0.02823977	5.93E-07
T	A	0.31	-0.1384929	0.02785919	1.13E-06
C	T	0.24	-0.1371422	0.02976909	5.99E-06
G	A	0.24	-0.1375024	0.02977825	5.71E-06
A	G	0.32	-0.12863	0.0276699	4.97E-06
T	C	0.31	-0.1350761	0.02778624	1.88E-06
G	T	0.24	-0.1394125	0.02978661	4.31E-06
C	G	0.24	-0.1348792	0.02953796	7.17E-06
T	C	0.31	-0.145558	0.02737804	2.12E-07
C	G	0.31	-0.1350761	0.02778624	1.88E-06
TA	T	0.24	-0.1344593	0.02942247	7.06E-06
A	G	0.24	-0.139596	0.02964104	3.78E-06
G	A	0.3	-0.1422415	0.02816623	7.75E-07
A	G	0.3	-0.1419195	0.0281592	8.14E-07
C	T	0.3	-0.1415774	0.02815302	8.57E-07
T	C	0.3	-0.1399229	0.02814623	1.13E-06
C	T	0.24	-0.1335126	0.02965596	9.52E-06
T	C	0.31	-0.1343871	0.02776095	2.07E-06
A	G	0.3	-0.1435214	0.02822694	6.57E-07
C	T	0.24	-0.1406352	0.0296575	3.26E-06
G	C	0.25	-0.13214	0.02884404	6.71E-06
G	A	0.31	-0.1407493	0.02756918	5.95E-07
A	C	0.23	-0.1371225	0.03004416	7.24E-06
T	A	0.25	-0.136015	0.02954201	6.06E-06
C	G	0.33	-0.1358919	0.02771523	1.55E-06
AT	A	0.32	-0.1321736	0.02781019	3.10E-06
T	A	0.32	-0.1378182	0.02766638	1.07E-06
T	C	0.33	-0.1358919	0.02771523	1.55E-06
G	A	0.23	-0.1423931	0.02991265	3.00E-06
TC	T	0.32	-0.1391322	0.0277434	9.16E-07
C	T	0.23	-0.1464862	0.02986835	1.54E-06
A	G	0.32	-0.1436009	0.02765994	3.92E-07
G	A	0.23	-0.1467718	0.02992705	1.54E-06
T	C	0.33	-0.1366684	0.02774168	1.39E-06
G	A	0.3	-0.1271597	0.02748978	5.51E-06
C	T	0.28	-0.1236813	0.02741802	9.15E-06
T	G	0.19	-0.147119	0.0309691	3.14E-06
C	G	0.33	-0.1418605	0.02779561	5.99E-07
G	T	0.35	0.1213853	0.02652658	6.87E-06
G	A	0.35	0.1193816	0.02656199	9.84E-06

T	C	0.28	-0.128615	0.02814257	7.05E-06
A	G	0.3	0.1282968	0.02759109	4.94E-06
G	A	0.29	0.1295599	0.02767985	4.30E-06
G	A	0.3	0.13085	0.02758545	3.24E-06
G	C	0.3	0.1254817	0.02759809	7.82E-06
CTTG	C	0.3	0.1304344	0.02765587	3.66E-06
C	T	0.3	0.1246818	0.02760221	8.91E-06
T	A	0.3	0.1246818	0.02760221	8.91E-06
T	C	0.31	0.1266876	0.02760169	6.46E-06
T	C	0.31	0.1266876	0.02760169	6.46E-06
G	A	0.27	-0.1280379	0.02813604	7.68E-06
G	A	0.31	0.1248819	0.02748121	7.91E-06
C	T	0.31	0.1266876	0.02760169	6.46E-06
G	A	0.31	0.1266876	0.02760169	6.46E-06
TAC	T	0.3	0.1390277	0.02776115	9.47E-07
G	A	0.31	0.1266876	0.02760169	6.46E-06
ACAAT	A	0.3	0.1269856	0.02785504	7.41E-06
T	C	0.3	0.1243944	0.02769642	9.97E-06
TA	T	0.42	0.1192539	0.02599678	6.54E-06
C	A	0.29	0.1305955	0.02820848	5.41E-06
G	A	0.29	0.1305955	0.02820848	5.41E-06
T	C	0.29	0.128288	0.02831646	8.40E-06
C	G	0.29	0.1298852	0.02808428	5.53E-06
G	A	0.29	0.1297867	0.02818207	6.03E-06
T	C	0.29	0.1319456	0.02808123	3.97E-06
G	T	0.28	-0.1309075	0.02785837	3.96E-06
A	G	0.29	0.1298852	0.02808428	5.53E-06
T	C	0.29	0.1370618	0.02813001	1.79E-06
G	T	0.29	0.1270943	0.02819511	9.28E-06
C	T	0.3	0.1254653	0.02769431	8.40E-06
G	T	0.3	0.1254653	0.02769431	8.40E-06
GTA	G	0.3	0.1290656	0.02750356	4.08E-06
G	A	0.3	0.1254653	0.02769431	8.40E-06
G	T	0.3	0.1274489	0.02767	6.01E-06
G	C	0.3	0.1303757	0.02771298	3.86E-06
C	T	0.3	0.1254653	0.02769431	8.40E-06
T	A	0.3	0.1254653	0.02769431	8.40E-06
C	T	0.3	0.1255194	0.02767032	8.19E-06
G	A	0.3	0.1254653	0.02769431	8.40E-06
C	G	0.3	0.1254653	0.02769431	8.40E-06
C	A	0.01	-0.5533237	0.1200845	5.97E-06
A	G	0.06	-0.2488168	0.0545865	7.43E-06
G	A	0.06	-0.2573786	0.05576841	5.77E-06
C	T	0.09	-0.2188032	0.04627517	3.47E-06
A	AT	0.02	-0.4919757	0.1045013	3.81E-06
G	A	0.08	0.241599	0.04950196	1.72E-06
G	A	0.02	-0.4663791	0.09892692	3.69E-06
G	GA	0.02	-0.4663791	0.09892692	3.69E-06
A	T	0.16	-0.1706812	0.03443978	1.21E-06
G	A	0.02	-0.4876336	0.106752	7.12E-06

G	A	0.05	-0.2929886	0.06054005	2.08E-06
TA	T	0.35	-0.1336288	0.0267403	9.96E-07
AGACTT	A	0.39	-0.1225116	0.02612073	4.12E-06
G	A	0.15	-0.1656673	0.03501947	3.43E-06
A	T	0.01	-0.5732971	0.1214257	3.58E-06
TAC	T	0.01	-0.5867164	0.1219002	2.35E-06
G	C	0.06	-0.2431842	0.05391773	9.18E-06
G	A	0.07	-0.2286931	0.04934408	5.29E-06
G	T	0.07	-0.2237281	0.04956679	9.04E-06
G	A	0.07	-0.2237281	0.04956679	9.04E-06
G	C	0.07	-0.2237281	0.04956679	9.04E-06
G	A	0.07	-0.2237281	0.04956679	9.04E-06
A	G	0.07	-0.2237281	0.04956679	9.04E-06
G	A	0.07	-0.2237281	0.04956679	9.04E-06
G	C	0.37	0.1276108	0.02719045	4.07E-06
GA	G	0.35	-0.1241225	0.02574551	2.27E-06
AG	A	0.14	-0.1707871	0.0373233	6.87E-06
C	T	0.22	-0.1381925	0.03076214	9.93E-06
G	A	0.11	-0.1969752	0.04274092	5.94E-06
G	T	0.11	-0.1969752	0.04274092	5.94E-06
G	A	0.11	-0.1923208	0.04265813	9.25E-06
G	T	0.11	-0.1969752	0.04274092	5.94E-06
C	A	0.11	-0.1969752	0.04274092	5.94E-06
T	C	0.11	-0.1923208	0.04265813	9.25E-06
T	C	0.11	-0.1923208	0.04265813	9.25E-06
A	G	0.11	-0.1923208	0.04265813	9.25E-06
A	T	0.11	-0.1923208	0.04265813	9.25E-06
T	C	0.11	-0.1923208	0.04265813	9.25E-06
C	T	0.11	-0.1923208	0.04265813	9.25E-06
G	A	0.11	-0.1969752	0.04274092	5.94E-06
C	G	0.11	-0.1923208	0.04265813	9.25E-06
C	T	0.11	-0.1923208	0.04265813	9.25E-06
C	T	0.11	-0.2015568	0.04259685	3.42E-06
T	C	0.11	-0.1969752	0.04274092	5.94E-06
G	C	0.11	-0.1923208	0.04265813	9.25E-06
C	T	0.04	-0.3184933	0.06954591	6.76E-06
G	A	0.36	0.1178533	0.02620198	9.69E-06
CTG	C	0.15	-0.1844986	0.03852576	2.63E-06
T	C	0.48	-0.1114519	0.02430963	6.61E-06
A	G	0.42	-0.1179704	0.02508599	3.90E-06
TATA	T	0.08	0.216577	0.04722282	6.56E-06
G	T	0.06	0.2379434	0.05287769	9.61E-06
G	A	0.03	0.3307118	0.07102146	4.80E-06
G	A	0.03	0.3307118	0.07102146	4.80E-06
A	C	0.03	0.3307118	0.07102146	4.80E-06
TAA	T	0.04	0.2982126	0.0655181	7.65E-06
G	A	0.1	0.2119245	0.04362062	1.91E-06
T	C	0.31	0.1242998	0.02690584	5.65E-06
T	C	0.31	0.1242998	0.02690584	5.65E-06
G	C	0.01	0.5577013	0.1212337	6.17E-06

G	A	0.01	0.5577013	0.1212337	6.17E-06
T	A	0.01	0.5577013	0.1212337	6.17E-06
G	A	0.25	0.1335482	0.02968733	9.67E-06
T	C	0.28	0.1310568	0.02871787	7.26E-06
A	G	0.28	0.1356012	0.02875804	3.68E-06
T	G	0.28	0.1346273	0.02874413	4.25E-06
G	A	0.28	0.1346273	0.02874413	4.25E-06
G	A	0.28	0.1310568	0.02871787	7.26E-06
A	G	0.28	0.1310568	0.02871787	7.26E-06
G	C	0.28	0.1333028	0.02877969	5.36E-06
A	T	0.28	0.1346273	0.02874413	4.25E-06
G	A	0.28	0.1346273	0.02874413	4.25E-06
C	G	0.28	0.1347914	0.02881216	4.35E-06
C	T	0.28	0.1310568	0.02871787	7.26E-06
C	T	0.28	0.1324185	0.02874793	6.01E-06
A	G	0.28	0.1310568	0.02871787	7.26E-06
C	T	0.28	0.1361216	0.02871865	3.29E-06
G	C	0.3	0.134033	0.02844229	3.73E-06
A	AT	0.3	0.1297585	0.02864939	8.45E-06
G	C	0.3	0.1355917	0.02833337	2.67E-06
AGTG	A	0.02	0.4431579	0.08914769	1.13E-06
A	AT	0.01	0.4904329	0.1077546	7.66E-06
G	C	0.05	0.2742988	0.05946131	5.83E-06
T	C	0.05	0.2742988	0.05946131	5.83E-06
C	A	0.05	0.2742988	0.05946131	5.83E-06
A	G	0.14	-0.1676796	0.03727365	9.66E-06
G	A	0.45	0.1112788	0.02428263	6.67E-06
G	A	0.22	-0.1404118	0.03098847	8.38E-06
G	GCC	0.06	0.246603	0.05422118	7.77E-06
G	A	0.12	0.1815148	0.03988281	7.67E-06
T	A	0.11	0.1890722	0.04105255	6.02E-06
CCTTCTCCTTCTCCTT	C	0.04	0.3088251	0.06142161	8.61E-07
GTCT	G	0.26	0.1339081	0.02965798	8.99E-06
C	G	0.26	0.1331403	0.02957	9.49E-06
T	C	0.09	0.2024593	0.04473922	8.59E-06
A	G	0.34	0.1226175	0.02465926	1.12E-06
TACACAC	T	0.12	-0.1804755	0.0400106	9.16E-06
T	C	0.02	0.4839591	0.1059848	7.17E-06
G	A	0.18	0.1689164	0.03411218	1.23E-06
G	A	0.44	-0.1227875	0.02716493	8.79E-06
T	A	0.05	0.2896924	0.06231794	4.97E-06
A	G	0.05	0.2896924	0.06231794	4.97E-06
C	T	0.05	0.2896924	0.06231794	4.97E-06
G	T	0.16	0.1539587	0.03405719	8.77E-06
A	G	0.05	0.6095849	0.1305844	4.67E-06
G	A	0.01	1.255021	0.2715387	5.74E-06
C	T	0.35	0.297894	0.05755549	4.39E-07
G	A	0.02	0.8664933	0.192477	9.73E-06
T	A	0.02	0.9753913	0.2080508	4.26E-06
C	T	0.01	1.215401	0.2684845	8.72E-06

T	TA	0.15	0.3846568	0.08419292	7.26E-06
T	TACAC	0.03	-0.7935717	0.1739948	7.51E-06
T	TGTGTA	0.11	0.420274	0.08842075	3.18E-06
A	C	0.01	1.252067	0.2673974	4.38E-06
G	A	0.15	0.3658313	0.07812704	4.38E-06
G	T	0.03	-0.6892323	0.1520596	8.50E-06
A	C	0.02	0.9798221	0.1980305	1.30E-06
C	T	0.01	1.080171	0.2222816	1.96E-06
G	A	0.02	0.8681815	0.1894493	6.82E-06
C	G	0.03	0.772275	0.1705945	8.72E-06
C	T	0.13	0.3829833	0.08483318	9.20E-06
T	C	0.41	0.2698238	0.05708405	3.58E-06
G	C	0.48	0.2558168	0.05589944	7.02E-06
T	C	0.01	1.092733	0.2278127	2.61E-06
C	T	0.1	-0.4145219	0.09198266	9.53E-06
C	CACAGAGAG	0.03	0.6963256	0.1539937	8.92E-06
A	G	0.08	0.4549161	0.0998853	7.73E-06
C	G	0.08	0.4549161	0.0998853	7.73E-06
C	T	0.01	1.135576	0.2279348	1.11E-06
A	C	0.02	1.175878	0.218492	1.60E-07
G	A	0.01	1.157437	0.2555293	8.62E-06
A	C	0.48	-0.2492228	0.05472375	7.74E-06
C	T	0.34	0.2650354	0.05868492	9.14E-06
T	G	0.34	0.2650354	0.05868492	9.14E-06
C	T	0.02	0.8144728	0.1782136	7.21E-06
T	G	0.06	0.4958846	0.1092758	8.31E-06
C	T	0.06	0.5206378	0.1102282	3.64E-06
T	G	0.02	0.8576748	0.1882291	7.66E-06
A	G	0.06	0.5104965	0.1113281	6.74E-06
C	A	0.04	0.6510944	0.1362413	2.83E-06
G	A	0.04	0.6510944	0.1362413	2.83E-06
A	T	0.04	0.6510944	0.1362413	2.83E-06
C	T	0.04	0.6510944	0.1362413	2.83E-06
G	A	0.04	0.6510944	0.1362413	2.83E-06
C	A	0.04	0.6510944	0.1362413	2.83E-06
A	G	0.15	0.35762	0.07832896	7.36E-06
G	A	0.04	0.6510944	0.1362413	2.83E-06
A	G	0.04	0.6510944	0.1362413	2.83E-06
T	G	0.04	0.6574654	0.1350191	1.87E-06
G	A	0.04	0.6574654	0.1350191	1.87E-06
G	A	0.04	0.681762	0.1360718	9.68E-07
A	G	0.04	0.6574654	0.1350191	1.87E-06
A	C	0.04	0.6574654	0.1350191	1.87E-06
A	G	0.04	0.6574654	0.1350191	1.87E-06
T	G	0.04	0.6574654	0.1350191	1.87E-06
C	CA	0.04	0.6574654	0.1350191	1.87E-06
AAC	A	0.04	0.6574654	0.1350191	1.87E-06
C	A	0.04	0.6574654	0.1350191	1.87E-06
T	G	0.04	0.6574654	0.1350191	1.87E-06
T	A	0.04	0.6574654	0.1350191	1.87E-06

G	A	0.04	0.6574654	0.1350191	1.87E-06
G	T	0.04	0.6633686	0.1358896	1.77E-06
C	A	0.04	0.6574654	0.1350191	1.87E-06
C	A	0.04	0.6574654	0.1350191	1.87E-06
C	T	0.04	0.6232052	0.1386141	9.98E-06
T	A	0.02	0.8192069	0.1820712	9.83E-06
A	G	0.01	1.315656	0.2369136	6.77E-08
A	G	0.06	-0.5013866	0.1112564	9.53E-06
G	GGTGTGTGT	0.06	-0.5403571	0.1157027	4.62E-06
C	T	0.04	0.6784919	0.1390504	1.78E-06
A	G	0.01	1.139871	0.1892905	6.15E-09
C	A	0.07	0.5541164	0.08933225	2.32E-09
G	A	0.07	0.5253918	0.08790896	7.82E-09
A	G	0.02	0.903911	0.1494749	5.12E-09
A	AG	0.02	0.703756	0.1152704	4.48E-09
C	CTG	0.01	0.8332374	0.1380498	6.82E-09
G	GT	0.07	-0.3967127	0.07897235	9.02E-07
A	G	0.03	-0.5412283	0.1187215	7.54E-06
GCCTGCCTTGGCTTCC	G	0.01	-0.8411786	0.1691361	1.14E-06
G	A	0.03	-0.5967664	0.1271876	4.17E-06
C	CGTGTGTGT	0.03	-0.6084081	0.1275881	2.95E-06
TAAC	T	0.01	-0.9875421	0.2037389	2.06E-06
T	TGAGA	0.01	-0.9875421	0.2037389	2.06E-06
A	G	0.04	-0.4775948	0.1038902	6.36E-06
C	T	0.01	-0.8737809	0.1827643	2.78E-06
G	A	0.02	-0.8542685	0.1773669	2.37E-06
A	G	0.02	-0.7484466	0.1664225	9.87E-06
AT	A	0.01	-0.8938079	0.1978056	8.99E-06
A	G	0.03	-0.6017989	0.1193215	8.20E-07
A	T	0.01	-0.9170525	0.1888865	1.98E-06
T	A	0.03	-0.718294	0.1367096	2.97E-07
C	T	0.01	-0.8749971	0.190971	6.81E-06
T	C	0.01	-0.8749971	0.190971	6.81E-06
T	C	0.01	-0.8749971	0.190971	6.81E-06
C	T	0.02	-0.7093901	0.1424322	1.10E-06
A	G	0.02	-0.7093901	0.1424322	1.10E-06
G	A	0.01	-0.8749971	0.190971	6.81E-06
C	A	0.01	-0.8749971	0.190971	6.81E-06
C	G	0.02	-0.7093901	0.1424322	1.10E-06
T	C	0.02	-0.7436229	0.1477844	8.67E-07
C	A	0.03	-0.6281051	0.1160991	1.38E-07
C	T	0.02	-0.7672664	0.1585652	2.14E-06
C	T	0.02	-0.7672664	0.1585652	2.14E-06
C	T	0.02	-0.7672664	0.1585652	2.14E-06
G	A	0.02	-0.848253	0.1672347	7.15E-07
C	T	0.03	-0.7581352	0.1245992	4.11E-09
C	G	0.03	-0.7963995	0.1259201	1.10E-09
A	G	0.14	0.2732226	0.05957091	6.67E-06
A	G	0.17	0.2550969	0.05521904	5.76E-06
A	C	0.17	0.2550969	0.05521904	5.76E-06

T	G	0.17	0.255202	0.0552572	5.79E-06
C	CATGT	0.17	0.2545939	0.05581487	7.45E-06
G	A	0.14	0.2749006	0.0592041	5.18E-06
T	C	0.17	0.2550969	0.05521904	5.76E-06
G	C	0.17	0.255202	0.0552572	5.79E-06
T	C	0.17	0.2550538	0.05528866	5.93E-06
CT	C	0.14	0.2811667	0.06029075	4.73E-06
T	C	0.13	0.2803528	0.06102536	6.45E-06
T	C	0.14	0.26856	0.0594024	8.90E-06
A	C	0.17	0.2520499	0.05529404	7.55E-06
A	C	0.14	0.2762506	0.05895948	4.29E-06
A	G	0.17	0.2544068	0.05528618	6.24E-06
G	C	0.16	0.2520313	0.05559256	8.42E-06
T	G	0.17	0.2550969	0.05521904	5.76E-06
T	G	0.17	0.2583383	0.05531805	4.60E-06
A	G	0.17	0.255202	0.0552572	5.79E-06
T	G	0.17	0.255202	0.0552572	5.79E-06
T	C	0.17	0.2528753	0.05480079	5.89E-06
A	C	0.18	0.2485024	0.05355116	5.25E-06
T	C	0.01	-0.8598382	0.1847912	4.96E-06
G	GAGAAGAAGA	0.03	-0.5360993	0.1175066	7.42E-06
A	T	0.01	-1.069163	0.1957105	1.06E-07
C	G	0.01	-0.8295171	0.1840383	9.45E-06
T	C	0.01	-0.8295171	0.1840383	9.45E-06
G	A	0.01	-0.8295171	0.1840383	9.45E-06
A	G	0.02	-0.8236635	0.1547503	2.12E-07
T	C	0.02	-0.8440441	0.176331	2.71E-06
C	CGTGTGTGT	0.04	-0.5115783	0.1129667	8.61E-06
T	C	0.02	-0.6513484	0.1428432	7.50E-06
C	G	0.01	-0.9556355	0.2041753	4.39E-06
G	A	0.01	-0.8672359	0.1904817	7.74E-06
C	T	0.04	-0.4956711	0.1101508	9.76E-06
G	A	0.05	-0.458538	0.09883563	5.27E-06
G	C	0.01	-0.9435221	0.2097101	9.79E-06
C	CA	0.02	-0.5779045	0.1270778	7.92E-06
A	T	0.02	-0.7838412	0.1713163	7.01E-06
A	G	0.01	-0.9052052	0.1920044	3.76E-06
C	CAGAT	0.01	-0.9611329	0.2022629	3.18E-06
AAT	A	0.02	-0.7927192	0.1760851	9.67E-06
C	T	0.01	-0.8725882	0.1696302	5.07E-07
T	A	0.02	-0.8857111	0.163867	1.41E-07
GTAC	G	0.02	-0.8857111	0.163867	1.41E-07
A	G	0.02	-0.9553715	0.1776467	1.61E-07
A	T	0.01	-1.157742	0.2009504	2.29E-08
T	C	0.02	-0.8709184	0.1699293	5.55E-07
T	C	0.02	-0.8709184	0.1699293	5.55E-07
T	A	0.01	-0.8511209	0.1838753	5.53E-06
C	T	0.01	-0.8965429	0.1928966	5.08E-06
C	CT	0.11	-0.2847893	0.05985798	3.09E-06
C	T	0.02	-0.7382327	0.1581323	4.63E-06

C	A	0.01	-0.9389452	0.1708509	8.95E-08
A	G	0.01	-0.9389452	0.1708509	8.95E-08
T	C	0.01	-0.9389452	0.1708509	8.95E-08
G	A	0.04	-0.5715675	0.1098469	3.81E-07
G	A	0.04	-0.5784024	0.109825	2.80E-07
T	TA	0.03	-0.5761447	0.1223229	3.84E-06
G	A	0.01	-0.8885784	0.1951306	7.71E-06
C	T	0.01	-0.8195931	0.1736053	3.65E-06
C	CAAT	0.01	-1.098611	0.196122	5.22E-08
A	AG	0.02	-0.7726003	0.1704454	8.45E-06
TTAAA	T	0.02	-0.7726003	0.1704454	8.45E-06
G	A	0.02	-0.7726003	0.1704454	8.45E-06
G	T	0.02	-0.7726003	0.1704454	8.45E-06
T	C	0.02	-0.7726003	0.1704454	8.45E-06
T	C	0.02	-0.7726003	0.1704454	8.45E-06
C	T	0.02	-0.7726003	0.1704454	8.45E-06
G	C	0.02	-0.7726003	0.1704454	8.45E-06
A	AT	0.02	-0.7726003	0.1704454	8.45E-06
ATTATT	A	0.02	-0.7726003	0.1704454	8.45E-06
C	T	0.02	-0.7726003	0.1704454	8.45E-06
C	T	0.02	-0.7726003	0.1704454	8.45E-06
C	G	0.02	-0.7726003	0.1704454	8.45E-06
A	AT	0.02	-0.7726003	0.1704454	8.45E-06
G	A	0.02	-0.7726003	0.1704454	8.45E-06
C	CAAACA	0.02	-0.7726003	0.1704454	8.45E-06
A	T	0.02	-0.7726003	0.1704454	8.45E-06
A	G	0.04	-0.5280654	0.10803	1.70E-06
T	A	0.02	-0.7301533	0.1567202	4.83E-06
A	G	0.02	-0.6663576	0.1480846	9.76E-06
C	CCT	0.1	-0.348471	0.07402739	3.89E-06
T	G	0.01	-0.8856562	0.1910081	5.34E-06
C	G	0.03	-0.5915141	0.1266888	4.62E-06
T	C	0.01	-0.9772628	0.2141224	7.37E-06
G	A	0.01	-0.9772628	0.2141224	7.37E-06
G	A	0.01	-0.9772628	0.2141224	7.37E-06
CG	C	0.02	-0.8372835	0.1721308	1.90E-06
T	G	0.02	-0.8372835	0.1721308	1.90E-06
C	CAT	0.02	-0.7376958	0.1626182	8.32E-06
C	T	0.06	-0.4149197	0.09129412	8.01E-06
TTTTG	T	0.03	-0.6426107	0.1282632	9.60E-07
G	A	0.03	-0.6426107	0.1282632	9.60E-07
C	T	0.03	-0.6426107	0.1282632	9.60E-07
C	A	0.03	-0.6426107	0.1282632	9.60E-07
G	A	0.02	-0.7113245	0.1568214	8.34E-06
A	G	0.02	-0.8105833	0.1649272	1.50E-06
A	G	0.02	-0.8105833	0.1649272	1.50E-06
C	T	0.02	-0.7782868	0.1584777	1.53E-06
G	T	0.02	-0.7782868	0.1584777	1.53E-06
G	A	0.02	-0.7782868	0.1584777	1.53E-06
A	G	0.02	-0.7782868	0.1584777	1.53E-06

A	G	0.02	-0.9158229	0.1783759	5.32E-07
T	C	0.01	-0.8993923	0.1850127	1.93E-06
C	G	0.01	-0.8993923	0.1850127	1.93E-06
G	C	0.01	-0.8993923	0.1850127	1.93E-06
G	A	0.01	-0.8993923	0.1850127	1.93E-06
G	A	0.05	-0.5100044	0.1059323	2.39E-06
G	T	0.06	-0.4001658	0.08610478	5.09E-06
C	A	0.06	-0.4336089	0.08583128	7.88E-07
G	A	0.06	-0.4062886	0.0844321	2.41E-06
C	T	0.21	-0.2431669	0.05309383	6.87E-06
T	G	0.04	-0.4993547	0.1083569	6.05E-06
C	G	0.04	-0.5587276	0.1124106	1.16E-06
C	CA	0.01	-0.9546834	0.1968702	2.03E-06
G	T	0.03	-0.6086417	0.1302116	4.51E-06
C	G	0.03	-0.6086417	0.1302116	4.51E-06
C	T	0.03	-0.6086417	0.1302116	4.51E-06
C	CTCTTTCTTTCTTTCTT	0.01	-0.928108	0.1995685	5.02E-06
TA	T	0.01	-0.75123	0.1644404	7.23E-06
C	T	0.03	-0.6004809	0.1311502	6.91E-06
A	G	0.03	-0.6166108	0.1327077	5.11E-06
CTGTGATTTACCTCC	C	0.03	-0.5678427	0.1257981	9.18E-06
C	T	0.1	-0.319209	0.06895449	5.52E-06
C	T	0.03	-0.6633808	0.1354142	1.62E-06
T	TA	0.04	-0.57187	0.1092913	3.30E-07
G	T	0.01	-1.070921	0.1923583	6.23E-08
T	A	0.01	-0.9816258	0.2086582	3.94E-06
C	T	0.06	-0.4673501	0.09320717	9.42E-07
G	A	0.06	-0.4673501	0.09320717	9.42E-07
A	C	0.07	-0.3893325	0.08419926	5.65E-06
G	A	0.07	-0.3838385	0.08491043	8.92E-06
T	C	0.02	-0.7964301	0.1574479	7.64E-07
A	G	0.02	-0.7964301	0.1574479	7.64E-07
G	T	0.01	-0.8420898	0.1827641	6.08E-06
AT	A	0.11	-0.2926156	0.06458731	8.53E-06
A	G	0.02	-0.7051905	0.1497841	3.88E-06
G	A	0.1	-0.3235921	0.06866886	3.80E-06
T	C	0.1	-0.319928	0.07070883	8.76E-06
G	C	0.09	-0.3285326	0.07102762	5.61E-06
T	C	0.09	-0.3400238	0.0726853	4.44E-06
A	G	0.09	-0.3332804	0.0729299	7.18E-06
T	C	0.1	-0.3244052	0.06926809	4.33E-06
A	T	0.09	-0.3539324	0.0721555	1.57E-06
T	C	0.1	-0.3171301	0.06963295	7.69E-06
A	AT	0.06	-0.4237657	0.09358557	8.63E-06
G	A	0.03	-0.5639514	0.1239694	7.87E-06
T	C	0.01	-0.9040708	0.1817655	1.14E-06
TCA	T	0.04	-0.5148222	0.114283	9.55E-06
A	G	0.03	-0.5599794	0.1226228	7.28E-06
G	A	0.07	-0.355102	0.07823657	8.23E-06
C	CT	0.02	-0.7459376	0.149156	1.00E-06

A	G	0.02	-0.8061098	0.1763236	7.12E-06
G	A	0.02	-0.8061098	0.1763236	7.12E-06
ATG	A	0.01	-0.8828624	0.1955352	9.13E-06
A	C	0.01	-0.8478555	0.1854063	7.08E-06
GACACACACACAC	G	0.01	-0.9046459	0.1837868	1.45E-06
C	CT	0.03	-0.5588696	0.1195124	4.47E-06
T	C	0.09	-0.3258058	0.07210521	9.00E-06
T	C	0.02	-0.873666	0.1696496	4.93E-07
TTATTTATTTATTTATT	T	0.06	-0.4159302	0.09217241	9.23E-06
A	G	0.02	-0.8902494	0.169493	3.00E-07
T	C	0.01	-0.8568885	0.1781796	2.45E-06
G	C	0.01	-1.00027	0.2078165	2.40E-06
G	A	0.01	-1.00027	0.2078165	2.40E-06
A	G	0.02	-0.9243821	0.1715433	1.53E-07
C	T	0.02	-0.8560211	0.1760597	1.92E-06
CT	C	0.02	-0.8560211	0.1760597	1.92E-06
T	G	0.02	-0.787602	0.1747389	9.45E-06
A	C	0.01	-0.907381	0.1848232	1.54E-06
G	A	0.01	-0.7944683	0.1732456	6.69E-06
G	A	0.01	-0.9734855	0.2058475	3.52E-06
A	C	0.02	-0.7322366	0.1590988	6.22E-06
G	T	0.02	-0.7322366	0.1590988	6.22E-06
C	T	0.02	-0.7885061	0.1652212	2.89E-06
G	T	0.02	-0.8521741	0.1688665	8.09E-07
G	GC	0.02	-0.6654665	0.1480303	9.95E-06
C	A	0.02	-0.7885061	0.1652212	2.89E-06
C	T	0.02	-0.7885061	0.1652212	2.89E-06
T	C	0.02	-0.8521741	0.1688665	8.09E-07
C	A	0.02	-0.7102755	0.1505375	3.70E-06
A	T	0.02	-0.7885061	0.1652212	2.89E-06
A	G	0.02	-0.6654665	0.1480303	9.95E-06
G	A	0.41	-0.1948415	0.04313823	9.07E-06
A	G	0.01	-0.9292772	0.2016194	6.04E-06
T	G	0.03	-0.645304	0.1333511	2.13E-06
C	T	0.03	-0.6197912	0.1325413	4.47E-06
T	C	0.01	-0.8934169	0.1801327	1.22E-06
T	C	0.03	-0.6146005	0.1347098	7.42E-06
T	G	0.04	-0.4655076	0.1016823	6.92E-06
A	G	0.01	-0.9274912	0.1989848	4.79E-06
C	T	0.01	-0.9274912	0.1989848	4.79E-06
C	CA	0.01	-0.9274912	0.1989848	4.79E-06
C	T	0.01	-0.9274912	0.1989848	4.79E-06
T	A	0.01	-0.9274912	0.1989848	4.79E-06
G	T	0.01	-0.9695027	0.2038139	3.11E-06
A	ATT	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06
T	C	0.01	-0.9274912	0.1989848	4.79E-06
TAGAAAC	T	0.01	-0.9274912	0.1989848	4.79E-06
C	T	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06

G	A	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06
G	C	0.01	-0.9274912	0.1989848	4.79E-06
G	C	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06
T	C	0.01	-0.9274912	0.1989848	4.79E-06
A	G	0.01	-0.9274912	0.1989848	4.79E-06
T	A	0.01	-0.9274912	0.1989848	4.79E-06
G	C	0.01	-0.9274912	0.1989848	4.79E-06
G	A	0.01	-0.9274912	0.1989848	4.79E-06
A	G	0.01	-0.9274912	0.1989848	4.79E-06
G	T	0.01	-0.8986225	0.1991547	9.25E-06
TA	T	0.05	-0.4345471	0.09603991	8.76E-06
G	GAA	0.02	-0.6436209	0.1349791	2.95E-06
C	CGT	0.01	-0.8874315	0.1972925	9.84E-06
T	G	0.02	-0.7376964	0.1440167	5.63E-07
A	G	0.02	-0.8063832	0.1673865	2.35E-06
C	G	0.03	-0.5285657	0.1157908	7.34E-06
A	T	0.03	-0.6407581	0.1281003	9.98E-07
C	CT	0.02	-0.6810879	0.142802	2.93E-06
C	T	0.03	-0.6020403	0.1197251	8.80E-07
G	A	0.03	-0.6020403	0.1197251	8.80E-07
C	G	0.03	-0.6020403	0.1197251	8.80E-07
T	G	0.03	-0.5623185	0.1176396	2.80E-06
C	G	0.03	-0.5623185	0.1176396	2.80E-06
C	G	0.03	-0.5623185	0.1176396	2.80E-06
C	G	0.03	-0.5623185	0.1176396	2.80E-06
G	A	0.03	-0.5519899	0.1214696	8.04E-06
C	T	0.03	-0.5623185	0.1176396	2.80E-06
C	T	0.03	-0.5623185	0.1176396	2.80E-06
T	C	0.03	-0.5623185	0.1176396	2.80E-06
C	T	0.03	-0.5394903	0.1198571	9.71E-06
C	T	0.03	-0.5394903	0.1198571	9.71E-06
CCTT	C	0.03	-0.5394903	0.1198571	9.71E-06
C	T	0.03	-0.5394903	0.1198571	9.71E-06
TAA	T	0.03	-0.5394903	0.1198571	9.71E-06
G	A	0.03	-0.5394903	0.1198571	9.71E-06
A	G	0.03	-0.5394903	0.1198571	9.71E-06
T	C	0.03	-0.5596953	0.1206829	5.31E-06
GT	G	0.02	-0.7577471	0.1579821	2.59E-06
GA	G	0.01	-0.9564386	0.1592102	6.37E-09
A	G	0.02	-0.8116247	0.135196	6.32E-09
GTGTGTGTGTGTGTG	T	0.02	-0.7890887	0.1324326	8.39E-09
T	C	0.01	-0.8506893	0.1337201	1.01E-09
G	T	0.01	-0.7197339	0.1134462	9.91E-10
CA	C	0.04	-0.5344253	0.08800344	4.84E-09
G	A	0.01	-0.8312056	0.1382253	6.48E-09
C	A	0.06	-0.3391148	0.05493458	2.56E-09
A	G	0.01	-0.9076749	0.144948	1.55E-09

G	A	0.03	-0.5675158	0.09435263	5.96E-09
C	T	0.02	-0.6147114	0.1037746	9.71E-09
G	C	0.01	-0.8593822	0.1411353	4.01E-09
G	A	0.01	-0.8127564	0.1367522	8.78E-09
T	C	0.02	-0.5846475	0.09860842	9.44E-09
C	T	0.02	-0.9598071	0.1569041	3.46E-09
G	A	0.02	-0.9598071	0.1569041	3.46E-09
T	C	0.02	-1.003909	0.15585	5.77E-10
A	G	0.01	-0.8240486	0.1388	9.21E-09
C	A	0.01	-0.8611898	0.1389517	2.26E-09
G	A	0.01	-0.8344699	0.137187	4.22E-09
C	T	0.01	-0.7554465	0.1190935	9.89E-10
A	C	0.05	-0.5519048	0.09030807	3.53E-09
G	A	0.01	-1.018746	0.1687077	5.25E-09
G	A	0.01	-1.018746	0.1687077	5.25E-09
T	C	0.03	-0.4231682	0.07091804	7.72E-09
G	A	0.01	-0.9934109	0.1515386	3.79E-10
G	A	0.01	-0.9934109	0.1515386	3.79E-10
T	G	0.02	-0.6724506	0.1098577	4.02E-09
T	C	0.02	-0.5657948	0.09449563	6.94E-09
C	G	0.03	-0.4997045	0.08408771	8.82E-09
T	C	0.02	-0.6845745	0.1153137	9.11E-09
G	A	0.27	-0.1931032	0.03240181	9.01E-09
C	T	0.01	-0.9328186	0.1549637	5.88E-09
A	C	0.01	-0.9328186	0.1549637	5.88E-09
A	G	0.11	-0.3665039	0.0778451	3.81E-06
C	T	0.11	-0.3751563	0.08072765	5.02E-06
G	A	0.04	0.6152293	0.1367435	9.66E-06
G	T	0.33	0.246446	0.05438217	8.37E-06
C	.TTCCTTCCTTCCTCC1	0.02	0.8896484	0.189629	4.11E-06
C	T	0.02	0.8203998	0.1821898	9.50E-06
C	A	0.49	-0.2316022	0.04822256	2.48E-06
TA	T	0.18	0.2803214	0.06026592	4.92E-06
G	A	0.01	1.048857	0.2305109	7.72E-06
C	CG	0.02	0.7585129	0.1655952	6.75E-06
A	G	0.02	0.7434292	0.1585796	4.17E-06
T	G	0.05	0.5489106	0.1145688	2.61E-06
C	A	0.05	0.5489106	0.1145688	2.61E-06
A	T	0.05	0.5489106	0.1145688	2.61E-06
A	G	0.05	0.5489106	0.1145688	2.61E-06
A	G	0.06	0.5432156	0.1133711	2.61E-06
AAGG	A	0.04	0.6291672	0.133883	3.97E-06
A	G	0.09	0.412518	0.09059053	7.60E-06
C	T	0.01	1.167381	0.2543994	6.51E-06
GC	G	0.01	1.097733	0.230221	2.90E-06
G	A	0.01	1.082105	0.2206766	1.55E-06
C	A	0.01	1.097733	0.230221	2.90E-06
A	G	0.38	0.2515478	0.05501738	7.01E-06
G	A	0.38	0.2538484	0.05454479	4.87E-06
G	A	0.39	0.2478301	0.05482115	8.79E-06

A	C	0.4	0.2539872	0.05479347	5.29E-06
A	G	0.4	0.2518626	0.05494059	6.64E-06
A	C	0.39	0.2478301	0.05482115	8.79E-06
A	G	0.39	0.2535885	0.05480446	5.49E-06
C	A	0.39	0.249216	0.05488903	8.06E-06
A	G	0.39	0.2458903	0.05472087	9.90E-06
A	T	0.39	0.2458903	0.05472087	9.90E-06
G	C	0.39	0.2520123	0.05469249	5.98E-06
G	A	0.39	0.2497707	0.05479425	7.45E-06
G	T	0.39	0.2497707	0.05479425	7.45E-06
A	G	0.39	0.2520123	0.05469249	5.98E-06
A	G	0.39	0.2520123	0.05469249	5.98E-06
T	C	0.39	0.2520123	0.05469249	5.98E-06
T	C	0.39	0.248978	0.05461254	7.43E-06
A	G	0.39	0.2520123	0.05469249	5.98E-06
C	T	0.39	0.2520123	0.05469249	5.98E-06
C	T	0.39	0.2520123	0.05469249	5.98E-06
A	T	0.39	0.2458903	0.05472087	9.90E-06
C	T	0.39	0.2526911	0.05470445	5.68E-06
C	T	0.39	0.250605	0.05478725	6.94E-06
G	A	0.39	0.2520123	0.05469249	5.98E-06
C	G	0.39	0.2520123	0.05469249	5.98E-06
A	G	0.38	0.2604922	0.05469622	2.98E-06
A	G	0.39	0.257206	0.05461138	3.78E-06
C	T	0.01	1.026361	0.214409	2.66E-06
C	CTGTGTGTG	0.02	0.9058	0.1988009	7.51E-06
G	A	0.01	1.152988	0.254197	8.22E-06
G	A	0.23	0.2758927	0.05938028	5.04E-06
G	A	0.01	0.9177936	0.2031477	8.90E-06
T	TAC	0.06	0.5763837	0.1086128	2.24E-07
G	C	0.03	0.7161335	0.1574378	7.77E-06
C	CACACACACAG	0.01	1.055835	0.234332	9.39E-06
AG	A	0.04	0.5707029	0.124622	6.78E-06
A	G	0.01	0.9987894	0.2127715	4.06E-06
A	G	0.01	0.9964261	0.221741	9.89E-06
A	T	0.05	0.533553	0.1177199	8.35E-06
C	A	0.05	0.5382548	0.1168828	6.05E-06
C	A	0.35	0.2397828	0.05254486	7.28E-06
TCGG	T	0.05	0.5580441	0.1189501	4.11E-06
A	G	0.02	0.9526917	0.2063558	5.75E-06
TACACAC	T	0.01	1.096785	0.239196	6.61E-06
T	C	0.02	0.9293234	0.1714616	1.27E-07
G	A	0.02	0.8458813	0.181864	4.93E-06
G	C	0.02	0.8458813	0.181864	4.93E-06
GA	G	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
T	TTTTG	0.02	0.8287984	0.1770979	4.33E-06
C	T	0.02	0.8287984	0.1770979	4.33E-06
T	C	0.02	0.8458813	0.181864	4.93E-06
C	T	0.02	0.8458813	0.181864	4.93E-06

T	C	0.02	0.8458813	0.181864	4.93E-06
TCTAA	T	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
C	T	0.02	0.8458813	0.181864	4.93E-06
A	G	0.02	0.8287984	0.1770979	4.33E-06
A	G	0.02	0.8287984	0.1770979	4.33E-06
C	A	0.02	0.8458813	0.181864	4.93E-06
T	C	0.02	0.8287984	0.1770979	4.33E-06
G	T	0.02	0.8617567	0.1890988	7.49E-06
A	G	0.02	0.8713614	0.19286	8.89E-06
A	G	0.02	0.8375183	0.1786698	4.18E-06
A	G	0.02	0.8608375	0.1801173	2.76E-06
T	C	0.02	0.8287984	0.1770979	4.33E-06
C	A	0.02	0.9393707	0.1848981	6.73E-07
T	G	0.02	0.8602864	0.1874551	6.49E-06
C	T	0.02	0.8601361	0.185605	5.31E-06
C	T	0.01	1.087774	0.1995513	1.09E-07
G	T	0.02	0.8458813	0.181864	4.93E-06
G	GT	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
G	C	0.02	0.8458813	0.181864	4.93E-06
C	T	0.02	0.8439217	0.1800166	4.17E-06
A	G	0.02	0.8458813	0.181864	4.93E-06
C	T	0.01	1.092908	0.2089447	3.25E-07
GAAAA	G	0.02	0.8458813	0.181864	4.93E-06
C	G	0.02	0.8458813	0.181864	4.93E-06
A	C	0.02	0.8601361	0.185605	5.31E-06
A	G	0.02	0.8458813	0.181864	4.93E-06
A	C	0.02	0.8458813	0.181864	4.93E-06
G	A	0.02	0.8458813	0.181864	4.93E-06
T	C	0.02	0.8287984	0.1770979	4.33E-06
A	G	0.03	0.749809	0.1620176	5.47E-06
C	T	0.02	0.8458813	0.181864	4.93E-06
G	A	0.01	1.108047	0.2362161	4.12E-06
G	A	0.01	1.309138	0.2464952	2.19E-07
C	A	0.01	1.143503	0.2345787	1.78E-06
G	A	0.2	0.2841218	0.06054433	4.09E-06
G	C	0.34	-0.235119	0.05234552	9.98E-06
C	T	0.01	1.097749	0.2421908	8.34E-06
A	G	0.01	1.057556	0.2211834	2.73E-06
CGTGTGT	C	0.01	0.9933795	0.2179972	7.50E-06
C	T	0.26	0.2621954	0.05747415	7.33E-06
A	G	0.24	0.2747658	0.06061502	8.33E-06
A	G	0.24	0.2697995	0.05995519	9.62E-06
G	C	0.2	0.304421	0.06274456	1.98E-06
A	G	0.17	0.313644	0.06520778	2.40E-06
G	C	0.2	0.290263	0.06399668	8.23E-06
A	T	0.17	0.3119341	0.06515581	2.66E-06

T	C	0.17	0.2977542	0.06572948	8.44E-06
A	C	0.2	0.3012811	0.06389135	3.69E-06
G	C	0.2	0.3012811	0.06389135	3.69E-06
A	T	0.16	0.3021215	0.06708254	9.47E-06
T	C	0.2	0.2942748	0.06429106	6.85E-06
G	C	0.17	0.3049906	0.06560389	4.98E-06
C	A	0.17	0.3083683	0.06699704	6.12E-06
G	A	0.17	0.3049906	0.06560389	4.98E-06
G	A	0.17	0.312116	0.06665768	4.28E-06
T	TA	0.2	0.3011242	0.06274001	2.51E-06
G	A	0.2	0.2993635	0.0627566	2.87E-06
A	G	0.2	0.2894546	0.06280318	5.95E-06
T	G	0.2	0.3008365	0.06241448	2.29E-06
A	G	0.18	0.3120074	0.06514278	2.63E-06
C	T	0.17	0.3066731	0.06719402	7.26E-06
C	G	0.17	0.3119341	0.06515581	2.66E-06
T	G	0.2	0.3126414	0.06273357	1.07E-06
A	T	0.19	0.3008543	0.06439897	4.49E-06
G	A	0.2	0.2993456	0.06436263	4.93E-06
G	A	0.17	0.3119341	0.06515581	2.66E-06
T	C	0.2	0.307705	0.06275581	1.56E-06
C	T	0.2	0.3087065	0.06396232	2.22E-06
C	A	0.2	0.3063286	0.06396155	2.63E-06
G	A	0.17	0.3085736	0.06524979	3.47E-06
G	A	0.17	0.3230833	0.0668094	2.13E-06
T	A	0.21	0.3044982	0.0622621	1.65E-06
A	G	0.21	0.3068924	0.0622633	1.38E-06
C	T	0.15	-0.3226798	0.07143527	8.93E-06
A	C	0.15	-0.3226798	0.07143527	8.93E-06
T	C	0.15	-0.3226798	0.07143527	8.93E-06
T	G	0.15	-0.3226798	0.07143527	8.93E-06
G	C	0.12	-0.388266	0.07791261	1.07E-06
C	A	0.11	-0.4115264	0.08139992	7.58E-07
G	C	0.11	-0.4093493	0.08161825	9.17E-07
C	A	0.1	-0.4113717	0.0837193	1.48E-06
G	C	0.11	-0.3856402	0.08156908	3.49E-06
T	C	0.11	-0.3913175	0.08131258	2.37E-06
T	C	0.13	-0.3894766	0.07648606	6.36E-07
A	G	0.11	-0.3952124	0.0826695	2.74E-06
A	G	0.11	-0.3910177	0.08330832	4.07E-06
ACAGACACACATG	A	0.11	-0.4042493	0.08290987	1.77E-06
G	A	0.1	-0.4121369	0.08338703	1.29E-06
G	A	0.1	-0.4098745	0.08366892	1.59E-06
A	G	0.11	-0.3971117	0.08318734	2.83E-06
C	T	0.11	-0.3971117	0.08318734	2.83E-06
G	A	0.05	0.5233322	0.1152108	7.99E-06
GAAAGAAAGAAAGA/	A	0.02	0.9214377	0.2050409	9.88E-06
G	A	0.02	0.8351516	0.1666988	9.41E-07
T	C	0.02	0.9008081	0.1834943	1.51E-06
A	G	0.18	0.3044116	0.06506111	4.35E-06

C	T	0.18	0.293057	0.0650183	9.32E-06
A	G	0.18	0.2928271	0.06509532	9.69E-06
G	A	0.18	0.2984843	0.06498544	6.38E-06
A	G	0.18	0.2984843	0.06498544	6.38E-06
G	C	0.18	0.3059217	0.06519543	4.09E-06
G	A	0.01	1.185157	0.262637	9.11E-06
C	T	0.01	1.185157	0.262637	9.11E-06
C	T	0.01	1.185157	0.262637	9.11E-06
C	A	0.01	1.185157	0.262637	9.11E-06
A	G	0.01	1.1945	0.2512741	3.10E-06
C	T	0.05	0.5431553	0.1162638	4.49E-06
C	T	0.06	0.5440195	0.1154661	3.75E-06
G	C	0.05	0.5431553	0.1162638	4.49E-06
A	C	0.05	0.5431553	0.1162638	4.49E-06
A	G	0.05	0.5464318	0.1182498	5.64E-06
C	A	0.28	0.2589726	0.05756142	9.66E-06
C	G	0.01	1.162955	0.2556956	7.79E-06
G	A	0.01	1.155883	0.2466691	4.21E-06
A	G	0.01	1.155883	0.2466691	4.21E-06
T	TA	0.01	1.155883	0.2466691	4.21E-06
T	C	0.01	1.155883	0.2466691	4.21E-06
G	A	0.01	1.155883	0.2466691	4.21E-06
G	A	0.01	1.155883	0.2466691	4.21E-06
C	T	0.01	1.162955	0.2556956	7.79E-06
A	C	0.05	0.5661776	0.1247284	8.10E-06
A	G	0.04	0.6647151	0.1295977	5.33E-07
T	A	0.04	0.6647151	0.1295977	5.33E-07
G	C	0.04	0.6647151	0.1295977	5.33E-07
C	T	0.04	0.6647151	0.1295977	5.33E-07
C	T	0.06	0.4953361	0.1029145	2.36E-06
A	G	0.01	1.071245	0.2293507	4.51E-06
T	C	0.01	1.003337	0.2208592	7.97E-06
C	A	0.01	1.003337	0.2208592	7.97E-06
C	A	0.01	1.003337	0.2208592	7.97E-06
A	G	0.01	1.003337	0.2208592	7.97E-06
T	C	0.01	1.003337	0.2208592	7.97E-06
C	A	0.01	1.003337	0.2208592	7.97E-06
G	A	0.01	1.003337	0.2208592	7.97E-06
T	G	0.01	1.003337	0.2208592	7.97E-06
G	C	0.01	1.003337	0.2208592	7.97E-06
T	G	0.01	1.033242	0.2238492	5.77E-06
T	C	0.01	1.003337	0.2208592	7.97E-06
T	C	0.01	1.003337	0.2208592	7.97E-06
C	G	0.01	1.003337	0.2208592	7.97E-06
T	C	0.01	1.003337	0.2208592	7.97E-06
G	A	0.01	1.003337	0.2208592	7.97E-06
C	A	0.01	1.003337	0.2208592	7.97E-06
G	A	0.01	1.003337	0.2208592	7.97E-06
C	T	0.01	1.003337	0.2208592	7.97E-06
A	G	0.01	1.003337	0.2208592	7.97E-06

C	T	0.01	1.003337	0.2208592	7.97E-06
C	T	0.01	1.224658	0.2434091	8.51E-07
TGA	T	0.07	0.506852	0.102149	1.18E-06
T	A	0.02	1.023049	0.1948706	2.96E-07
G	T	0.02	1.072914	0.2009537	1.91E-07
C	T	0.03	0.6397869	0.139577	6.65E-06
G	A	0.01	1.094647	0.2201437	1.12E-06
T	G	0.02	0.9429919	0.209515	9.59E-06
CT	C	0.11	-0.357517	0.07654567	4.51E-06
GCCTGCTCT	G	0.27	0.2742881	0.05963453	6.21E-06
G	A	0.27	0.2859694	0.05991258	2.84E-06
C	G	0.03	0.6769753	0.1419973	2.91E-06
G	GTTGTTTTGTT	0.01	1.073723	0.2195399	1.65E-06
G	C	0.03	0.7337543	0.1547903	3.29E-06
C	T	0.04	0.603054	0.1313715	6.46E-06
T	C	0.01	1.197146	0.263038	7.68E-06
G	T	0.01	1.126556	0.2465069	7.07E-06
T	TTA	0.04	0.6118433	0.135974	9.64E-06
C	T	0.01	1.282163	0.2418271	2.29E-07
G	C	0.07	0.4522722	0.09587412	3.66E-06
A	G	0.03	0.6680956	0.1481204	9.19E-06
C	A	0.01	1.042175	0.2190011	3.03E-06
A	AAAAT	0.07	0.5091597	0.1019608	1.02E-06
G	A	0.05	0.595066	0.119154	1.01E-06
AG	A	0.06	0.542566	0.1140281	3.04E-06
T	C	0.05	0.5591363	0.1172607	2.90E-06
CAT	C	0.06	0.542566	0.1140281	3.04E-06
CT	C	0.06	0.542566	0.1140281	3.04E-06
C	T	0.06	0.5345254	0.1159405	5.91E-06
G	A	0.05	0.5711834	0.1197692	2.89E-06
T	C	0.02	0.7763146	0.1673139	5.18E-06
T	C	0.02	0.8962711	0.1822579	1.45E-06
G	A	0.01	1.20229	0.2587951	5.05E-06
C	T	0.01	1.20229	0.2587951	5.05E-06
A	G	0.01	1.090551	0.2162547	8.05E-07
C	T	0.02	1.093712	0.2023435	1.37E-07
TA	T	0.01	0.6129321	0.09261564	2.21E-10
G	A	0.01	0.5371066	0.09017859	8.44E-09
A	G	0.16	0.1761393	0.02895673	4.04E-09
G	A	0.1	0.2175381	0.03627688	6.43E-09
G	GAAAGAAAT	0.02	0.4602426	0.07718768	7.68E-09
C	T	0.01	0.5033168	0.07493127	1.14E-10
G	A	0.01	0.4535975	0.07315555	2.11E-09
TA	T	0.01	0.7477856	0.1094013	5.60E-11
T	A	0.02	0.4616586	0.07300552	1.39E-09
C	T	0.02	0.5411344	0.08063354	1.65E-10
C	T	0.02	0.6576916	0.1061616	2.14E-09
G	A	0.01	0.5664001	0.093632	4.77E-09
A	G	0.01	0.5664001	0.093632	4.77E-09
A	G	0.01	0.5664001	0.093632	4.77E-09

C	T	0.01	0.5664001	0.093632	4.77E-09
G	A	0.01	0.5664001	0.093632	4.77E-09
T	C	0.01	0.5664001	0.093632	4.77E-09
G	A	0.02	-0.8634727	0.1768901	1.72E-06
G	A	0.03	0.7357448	0.1582577	4.97E-06
A	C	0.02	0.8289926	0.1722284	2.36E-06
A	C	0.02	0.8507253	0.1802206	3.60E-06
A	G	0.07	0.4703579	0.1030077	7.19E-06
T	A	0.07	0.4703579	0.1030077	7.19E-06
T	G	0.03	-0.7744257	0.1666157	5.00E-06
A	T	0.03	0.8056419	0.1628393	1.26E-06
G	A	0.24	0.2716229	0.06030112	9.44E-06
C	T	0.24	0.2786087	0.06025502	5.57E-06
A	C	0.24	0.2786876	0.06026131	5.55E-06
G	T	0.24	0.2771011	0.06027324	6.26E-06
A	G	0.24	0.2786876	0.06026131	5.55E-06
G	A	0.29	0.307769	0.05739081	1.69E-07
C	T	0.29	0.3021422	0.05742141	2.79E-07
G	A	0.29	0.3204616	0.05743143	5.65E-08
T	C	0.29	0.3157923	0.05731645	8.09E-08
A	G	0.28	0.2985017	0.05810671	5.12E-07
T	A	0.21	0.3107816	0.0650071	2.74E-06
TAC	T	0.29	0.3022916	0.05759832	2.98E-07
T	C	0.29	0.2967947	0.05759181	4.73E-07
G	A	0.29	0.31197	0.05717426	1.06E-07
A	T	0.29	0.31197	0.05717426	1.06E-07
A	ATG	0.29	0.3086631	0.05733154	1.52E-07
T	C	0.29	0.31197	0.05717426	1.06E-07
C	T	0.29	0.31197	0.05717426	1.06E-07
C	T	0.29	0.3102444	0.05734858	1.34E-07
C	G	0.29	0.3102444	0.05734858	1.34E-07
C	T	0.29	0.31197	0.05717426	1.06E-07
T	C	0.29	0.3039881	0.05714574	2.10E-07
G	GT	0.29	0.317407	0.05702055	6.05E-08
AT	A	0.29	0.3144133	0.05723406	8.78E-08
A	C	0.29	0.3132369	0.05724126	9.78E-08
T	A	0.29	0.3149692	0.05706998	7.72E-08
G	A	0.29	0.3132369	0.05724126	9.78E-08
G	A	0.29	0.3075285	0.05718012	1.57E-07
T	C	0.29	0.3132369	0.05724126	9.78E-08
G	A	0.29	0.3146003	0.05752559	9.95E-08
T	C	0.3	0.2993265	0.05674319	2.61E-07
T	C	0.3	0.2964937	0.05665034	3.20E-07
A	G	0.3	0.2911584	0.05659178	4.93E-07
A	G	0.31	0.2928364	0.05584324	3.05E-07
G	A	0.28	0.2750174	0.05837828	3.76E-06
A	ATG	0.02	0.8564747	0.1746798	1.56E-06
A	T	0.46	0.2305174	0.04999714	5.91E-06
C	G	0.41	0.2351245	0.05196216	8.63E-06
C	T	0.46	0.2348472	0.05199416	8.94E-06

C	G	0.01	1.089478	0.2358663	5.69E-06
G	A	0.01	1.089478	0.2358663	5.69E-06
G	A	0.02	0.9242607	0.1900475	1.87E-06
T	G	0.02	0.8356535	0.1786723	4.39E-06
T	A	0.09	-0.4587919	0.09538306	2.39E-06
G	T	0.05	-0.5295936	0.1144072	5.44E-06
C	T	0.42	0.247466	0.0515254	2.48E-06
C	T	0.42	0.2452195	0.05157495	3.09E-06
G	A	0.44	0.2314201	0.05127699	9.09E-06
C	T	0.03	0.8125321	0.171193	3.21E-06
A	G	0.02	0.8807861	0.1858449	3.31E-06
T	A	0.02	0.8807861	0.1858449	3.31E-06
C	T	0.02	0.8807861	0.1858449	3.31E-06
C	G	0.02	0.8807861	0.1858449	3.31E-06
A	T	0.02	0.8807861	0.1858449	3.31E-06
G	A	0.02	0.8807861	0.1858449	3.31E-06
C	A	0.02	0.8807861	0.1858449	3.31E-06
A	G	0.03	0.6723448	0.1378455	1.75E-06
TTCTTTC	T	0.02	0.8898963	0.1977829	9.65E-06
C	G	0.02	-0.9934021	0.2131208	4.71E-06
A	G	0.02	-0.9934021	0.2131208	4.71E-06
A	G	0.02	-0.9889811	0.2083614	3.20E-06
C	CA	0.01	-1.032397	0.2183183	3.47E-06
G	A	0.02	-1.0091	0.2131407	3.38E-06
C	T	0.03	0.698674	0.1542751	8.48E-06
A	G	0.02	0.9375664	0.1981653	3.43E-06
TTGTGTG	T	0.13	-0.377061	0.07986216	3.59E-06
C	G	0.42	0.2527291	0.05269476	2.55E-06
T	C	0.01	-1.382591	0.2536936	1.09E-07
G	A	0.02	-0.8547176	0.1821044	4.07E-06
T	C	0.37	-0.2361487	0.05224077	8.80E-06
A	C	0.4	0.2401971	0.05306076	8.56E-06
T	G	0.4	0.2400328	0.05250065	7.01E-06
C	T	0.32	-0.2508029	0.05468009	6.57E-06
T	TGAGAGAGAGA	0.01	-0.967082	0.2146467	9.40E-06
G	C	0.12	0.3573907	0.0795107	9.84E-06
TG	T	0.02	0.939603	0.1819207	4.48E-07
G	C	0.33	-0.2601179	0.05180878	8.94E-07
C	T	0.01	1.051417	0.2340458	9.95E-06
T	G	0.01	1.051417	0.2340458	9.95E-06
C	CTTGT	0.18	0.3119247	0.06656212	4.21E-06
AATGGATGGATGG	A	0.01	-1.168731	0.2567976	7.69E-06
T	C	0.09	-0.4296196	0.09431489	7.55E-06
A	G	0.36	0.2839677	0.05929929	2.64E-06
T	C	0.39	0.2488727	0.05400811	5.97E-06
T	G	0.38	0.2465839	0.05428857	8.00E-06
T	C	0.39	0.2547347	0.05283434	2.27E-06
T	A	0.39	0.2486576	0.05300596	4.12E-06
G	A	0.39	0.2428206	0.05320862	7.28E-06
A	G	0.39	0.2449625	0.05293806	5.48E-06

C	T	0.38	0.2431638	0.0536593	8.38E-06
C	CG	0.05	0.5389659	0.1195678	9.31E-06
T	TAC	0.03	0.7458087	0.1591086	4.19E-06
C	T	0.01	-0.598981	0.09491031	1.17E-09
TG	T	0.01	0.8220331	0.1384952	8.79E-09
T	A	0.01	0.6863613	0.1123148	3.99E-09
A	C	0.28	0.2683011	0.05965092	9.71E-06
T	A	0.01	-1.100063	0.2428785	8.46E-06
A	ATG	0.02	-0.9066134	0.1995361	7.94E-06
C	T	0.01	-1.11383	0.2355357	3.47E-06
A	C	0.02	-0.8678155	0.1843645	3.83E-06
T	C	0.02	-0.9439824	0.1898924	1.13E-06
G	A	0.01	-1.013843	0.220396	6.19E-06
G	A	0.01	-1.013843	0.220396	6.19E-06
G	T	0.01	-1.040393	0.229926	8.62E-06
A	C	0.01	-1.1737	0.2451034	2.64E-06
G	A	0.01	-1.070296	0.2313556	5.51E-06
C	T	0.02	-0.9863122	0.2047836	2.32E-06
G	A	0.06	-0.5584115	0.1145546	1.78E-06
T	TTATTTATTTTATTTT	0.01	-1.068902	0.236548	8.86E-06
A	G	0.31	0.2581553	0.05688023	8.12E-06
A	T	0.31	0.2625721	0.0569938	6.00E-06
A	G	0.31	0.2581553	0.05688023	8.12E-06
C	T	0.31	0.2586952	0.05684588	7.69E-06
C	T	0.31	0.2687246	0.05693499	3.61E-06
A	C	0.31	0.2577977	0.05685521	8.28E-06
G	A	0.34	0.2534993	0.05488302	5.69E-06
G	C	0.31	0.2581553	0.05688023	8.12E-06
A	G	0.31	0.2581553	0.05688023	8.12E-06
C	A	0.31	0.2581553	0.05688023	8.12E-06
T	C	0.31	0.2581553	0.05688023	8.12E-06
TATA	T	0.31	0.2801387	0.05724216	1.62E-06
T	C	0.31	0.2590575	0.05691023	7.65E-06
G	A	0.31	0.2581553	0.05688023	8.12E-06
G	C	0.31	0.2614768	0.05671677	5.91E-06
T	C	0.34	0.2577689	0.05482357	3.92E-06
G	A	0.31	0.2628136	0.05682445	5.54E-06
G	A	0.27	0.2757803	0.0600795	6.46E-06
C	T	0.33	0.2624528	0.05490921	2.75E-06
T	G	0.35	0.2554461	0.05456956	4.30E-06
C	A	0.04	-0.7021877	0.1394614	8.35E-07
A	T	0.01	-1.199999	0.2618043	6.66E-06
3AGGAAGGAGGAAG(	G	0.02	-0.9539511	0.2060244	5.41E-06
C	G	0.15	0.3421036	0.07301834	4.23E-06
C	T	0.06	-0.5252908	0.1152842	7.50E-06
G	A	0.06	-0.5252908	0.1152842	7.50E-06
A	T	0.06	-0.5252908	0.1152842	7.50E-06
G	A	0.06	-0.5252908	0.1152842	7.50E-06
A	G	0.06	-0.543432	0.1139147	2.87E-06
A	G	0.06	-0.543432	0.1139147	2.87E-06

G	A	0.07	-0.4728252	0.102918	6.35E-06
G	A	0.43	0.2515807	0.05580204	9.27E-06
A	G	0.03	-0.6880697	0.1514571	7.96E-06
G	A	0.03	0.7374112	0.1605698	6.40E-06
C	T	0.2	-0.3166873	0.06761346	4.25E-06
C	G	0.43	0.2430934	0.05397405	9.46E-06
T	G	0.4	0.2487279	0.05325224	4.51E-06
C	T	0.06	-0.5008044	0.110667	8.61E-06
A	ATGTG	0.01	-1.201791	0.2575987	4.62E-06
G	GTCTATCTATCTA	0.21	-0.2924633	0.06270754	4.65E-06
C	G	0.01	-1.179751	0.2615118	9.16E-06
A	G	0.42	0.2497749	0.05265715	3.25E-06
C	T	0.42	0.2409718	0.05291901	7.60E-06
T	A	0.42	0.2409718	0.05291901	7.60E-06
A	G	0.43	0.2387656	0.05289793	9.06E-06
G	A	0.47	0.24017	0.05268794	7.44E-06
G	T	0.48	0.238236	0.05275593	8.98E-06
C	T	0.41	0.2327858	0.05034556	5.57E-06
A	G	0.28	-0.2738979	0.05923585	5.56E-06
A	G	0.29	-0.2725768	0.05890813	5.48E-06
C	T	0.28	-0.2690278	0.05979401	9.65E-06
A	G	0.28	-0.2715963	0.06002662	8.64E-06
A	ATCTATCT	0.12	0.3700334	0.08108995	7.28E-06
TACACACACACAC	T	0.03	-0.7505847	0.1545476	1.93E-06
A	G	0.08	-0.4326196	0.09318408	5.12E-06
T	C	0.44	-0.2406025	0.05295038	7.93E-06
G	A	0.44	-0.241434	0.0525802	6.42E-06
C	A	0.01	-1.157577	0.2468169	4.13E-06
G	A	0.06	-0.5379132	0.1135889	3.36E-06
A	G	0.02	-0.9684458	0.2045848	3.39E-06
T	C	0.02	-0.9684458	0.2045848	3.39E-06
G	A	0.02	-0.9684458	0.2045848	3.39E-06
A	G	0.02	-0.9684458	0.2045848	3.39E-06
C	T	0.02	-0.9684458	0.2045848	3.39E-06
T	TAC	0.05	0.6298467	0.1287845	1.65E-06
A	G	0.34	0.2594983	0.05407373	2.52E-06
G	C	0.01	-0.9860306	0.215725	7.05E-06
A	T	0.01	-1.129617	0.2393197	3.61E-06
TCACACACACA	T	0.03	-0.6807624	0.1496944	7.80E-06
C	T	0.05	-0.5675135	0.1222347	5.11E-06
T	C	0.05	-0.5717978	0.1220093	4.20E-06
C	T	0.05	-0.5801886	0.1246681	4.86E-06
AT	A	0.04	-0.6213098	0.1363271	7.47E-06
C	A	0.1	-0.4230994	0.09179872	5.95E-06
AT	A	0.05	-0.5767504	0.1230656	4.20E-06
CT	C	0.05	-0.5801886	0.1246681	4.86E-06
T	TA	0.05	-0.6131572	0.127355	2.34E-06
T	TA	0.03	-0.8497135	0.1660633	5.65E-07
A	G	0.49	-0.2662848	0.05255384	7.17E-07
A	AT	0.16	0.3285774	0.07288957	9.29E-06

G	C	0.03	-0.6469202	0.1367392	3.43E-06
C	A	0.01	-1.27858	0.2730991	4.29E-06
T	G	0.04	-0.6338798	0.1396982	8.16E-06
AAATAATAAT	A	0.26	-0.2540109	0.05569514	7.36E-06
G	A	0.01	-1.164693	0.2363898	1.39E-06
T	C	0.02	-0.9221703	0.2047123	9.42E-06
G	A	0.02	-1.080256	0.2221824	1.88E-06
T	A	0.03	0.7096908	0.1557044	7.46E-06
C	T	0.02	-0.4898918	0.0823005	8.27E-09
C	T	0.05	0.3845192	0.06311751	3.77E-09
T	C	0.41	0.08209421	0.01266562	4.33E-10
GCTCT	G	0.32	0.08725559	0.01337511	3.41E-10
T	C	0.39	0.0827505	0.01291494	6.59E-10
C	T	0.39	0.08347637	0.01291649	4.82E-10
G	A	0.27	0.09133271	0.01408057	4.22E-10
A	G	0.33	0.07932804	0.01316827	5.45E-09
T	C	0.35	0.07874629	0.01321585	7.77E-09
T	C	0.35	0.08055245	0.01320454	3.61E-09
A	G	0.35	0.07882218	0.01322988	7.79E-09
C	T	0.27	0.08972689	0.01410576	8.55E-10
T	C	0.35	0.07874629	0.01321585	7.77E-09
G	A	0.34	0.08119859	0.01339586	4.46E-09
T	C	0.35	0.07874629	0.01321585	7.77E-09
A	G	0.35	0.07861762	0.01326655	9.24E-09
A	G	0.35	0.08026462	0.01321258	4.14E-09
G	T	0.31	0.08490157	0.01346995	1.18E-09
C	T	0.32	0.0867428	0.01348531	5.72E-10
A	G	0.32	0.0867428	0.01348531	5.72E-10
G	T	0.32	0.08518876	0.01351802	1.19E-09
G	C	0.32	0.08626463	0.01352375	7.74E-10
T	G	0.32	0.08518876	0.01351802	1.19E-09
T	G	0.35	0.07874629	0.01321585	7.77E-09
A	T	0.32	0.08666975	0.01351337	6.36E-10
C	A	0.28	0.09083926	0.01410735	5.51E-10
A	G	0.32	0.0867428	0.01348531	5.72E-10
C	T	0.32	0.0867428	0.01348531	5.72E-10
T	C	0.32	0.08409389	0.0135194	1.87E-09
T	C	0.32	0.08749013	0.01349143	4.25E-10
G	T	0.27	0.09228663	0.01408031	2.86E-10
G	A	0.32	0.08518876	0.01351802	1.19E-09
T	C	0.35	0.07867265	0.01323534	8.39E-09
T	A	0.32	0.0867428	0.01348531	5.72E-10
AC	A	0.31	0.08142131	0.01361899	6.97E-09
C	T	0.32	0.0865498	0.0135113	6.65E-10
T	C	0.31	0.08306679	0.01355657	3.11E-09
G	C	0.3	0.08196863	0.01359397	5.29E-09
A	T	0.32	0.0867428	0.01348531	5.72E-10
A	T	0.35	0.08026462	0.01321258	4.14E-09
G	A	0.32	0.08771041	0.01345714	3.53E-10
G	C	0.32	0.08415253	0.01348426	1.67E-09

T	C	0.45	-0.1206415	0.02648133	7.52E-06
C	T	0.22	-0.1409593	0.03032869	4.99E-06
G	A	0.22	-0.1401861	0.03023945	5.26E-06
G	A	0.23	-0.1365495	0.03028307	9.23E-06
C	G	0.23	-0.138109	0.03026544	7.27E-06
C	CCT	0.22	-0.1391268	0.03037037	6.72E-06
A	C	0.26	-0.140158	0.02941547	2.94E-06
T	C	0.26	-0.1369739	0.02943977	4.88E-06
A	T	0.02	-0.4341263	0.08822421	1.43E-06
CAG	C	0.02	-0.4341263	0.08822421	1.43E-06
G	A	0.06	-0.2823181	0.05724616	1.36E-06
G	GCACACA	0.35	0.1216282	0.02596769	4.24E-06
C	T	0.02	-0.4802441	0.09732214	1.34E-06
C	T	0.02	-0.4747013	0.1010855	4.01E-06
A	G	0.03	0.3456611	0.07564894	7.08E-06
C	T	0.03	0.3596665	0.077017	4.52E-06
T	TCATC	0.21	-0.1642097	0.03434554	2.73E-06
G	A	0.02	-0.4233461	0.09388772	9.23E-06
GAC	G	0.02	-0.4233461	0.09388772	9.23E-06
G	A	0.02	-0.4233461	0.09388772	9.23E-06
TACAC	T	0.02	-0.4233461	0.09388772	9.23E-06
C	CACACAGAG	0.02	-0.4233461	0.09388772	9.23E-06
C	G	0.02	-0.4233461	0.09388772	9.23E-06
G	T	0.02	-0.4233461	0.09388772	9.23E-06
G	A	0.02	-0.4233461	0.09388772	9.23E-06
T	C	0.02	-0.4494524	0.09695664	5.27E-06
C	A	0.4	0.1215656	0.02691859	8.95E-06
T	A	0.4	0.1230298	0.02693324	7.12E-06
T	C	0.4	0.126583	0.02695178	4.00E-06
C	T	0.4	0.1231577	0.0269266	6.94E-06
A	G	0.4	0.1216489	0.02690607	8.75E-06
A	T	0.4	0.1260605	0.02690302	4.21E-06
A	G	0.4	0.121998	0.02694106	8.48E-06
A	AC	0.05	-0.2752037	0.06044239	7.60E-06
A	C	0.23	-0.1511324	0.03134682	2.27E-06
C	T	0.03	-0.3390164	0.06799474	1.05E-06
C	T	0.03	-0.4019105	0.07500243	1.72E-07
G	A	0.03	-0.3515562	0.07252505	2.01E-06
G	A	0.03	-0.3806938	0.07435073	5.54E-07
G	A	0.03	-0.3532008	0.07531955	4.14E-06
G	GT	0.03	-0.4019312	0.08018248	9.26E-07
A	G	0.03	-0.3405992	0.07382291	5.81E-06
T	C	0.03	-0.3484959	0.0761489	6.86E-06
G	A	0.04	-0.3098785	0.06697686	5.48E-06
C	T	0.04	-0.3222785	0.06834033	3.67E-06
G	A	0.03	-0.3643909	0.07375939	1.30E-06
T	G	0.43	-0.1334069	0.02684825	1.14E-06
A	G	0.45	-0.121758	0.02677092	7.77E-06
G	T	0.45	-0.1237231	0.02655638	4.75E-06
G	A	0.43	-0.1347195	0.0270856	1.11E-06

A	G	0.27	0.1343163	0.02918806	6.13E-06
A	T	0.11	-0.1906006	0.04141682	6.12E-06
C	G	0.03	-0.4209362	0.08313518	7.28E-07
T	TGAATGGAATG	0.02	0.380939	0.08476817	9.86E-06
G	C	0.03	0.3243096	0.07152529	8.26E-06
T	C	0.03	-0.6845968	0.1503592	7.65E-06
G	A	0.01	-1.216236	0.2551748	2.94E-06
T	TTGGTTGG	0.03	-0.889506	0.1657736	1.68E-07
C	T	0.04	-0.6573198	0.1300561	7.68E-07
T	G	0.04	-0.6302913	0.1369684	6.17E-06
A	AAAC	0.02	-0.9225215	0.1886525	1.66E-06
T	A	0.14	-0.3628645	0.07482844	2.01E-06
C	T	0.26	-0.2800944	0.06150253	7.61E-06
C	G	0.22	-0.2946666	0.06459182	7.36E-06
T	C	0.04	-0.6771718	0.1320859	5.42E-07
A	AAAAAG	0.12	0.3915248	0.08513572	6.25E-06
A	G	0.16	-0.3593973	0.07586291	3.35E-06
T	TAG	0.09	-0.4346529	0.09577633	8.17E-06
C	T	0.01	-1.163558	0.2369482	1.51E-06
G	C	0.01	-1.105506	0.2257896	1.62E-06
T	G	0.02	-0.9748945	0.1945837	9.46E-07
A	AGAGAGG	0.3	-0.2632263	0.05737008	6.55E-06
A	C	0.42	-0.2310322	0.05080025	7.83E-06
G	A	0.01	-1.041517	0.2311206	9.39E-06
G	A	0.01	-1.320269	0.2529739	3.47E-07
C	G	0.01	-1.214746	0.2552044	3.03E-06
C	T	0.13	0.4334709	0.0839552	4.55E-07
TA	T	0.16	0.3883747	0.07458283	3.67E-07
G	A	0.03	-0.7263289	0.1577524	6.10E-06
C	G	0.04	-0.6267472	0.1370641	7.02E-06
G	T	0.01	-1.160217	0.2362877	1.51E-06
C	A	0.01	-1.113337	0.2446941	7.76E-06
C	G	0.01	-1.141343	0.2479119	6.11E-06
G	A	0.01	-1.175086	0.2613688	9.83E-06
G	A	0.02	-0.9009233	0.1854631	1.93E-06
G	C	0.01	-1.08745	0.2391868	7.88E-06
T	A	0.01	-1.164625	0.2550398	7.21E-06
G	GT	0.01	-1.176977	0.2552539	5.92E-06
A	G	0.02	-0.8924504	0.1936991	6.02E-06
C	CT	0.19	0.3049366	0.06758395	9.17E-06
C	T	0.01	0.8418025	0.1407845	7.45E-09
A	C	0.01	0.8764066	0.1422231	2.68E-09
CA	C	0.01	-1.106249	0.241703	6.84E-06
A	T	0.01	1.048476	0.2283764	6.43E-06
G	A	0.05	0.5562485	0.121979	7.37E-06
A	G	0.35	0.26405	0.05473859	2.24E-06
C	A	0.34	0.2643051	0.05605088	3.68E-06
C	T	0.35	0.2718078	0.05530596	1.47E-06
C	A	0.37	0.2677251	0.05564166	2.37E-06
T	G	0.02	-0.7534411	0.1674149	9.58E-06

C	CA	0.02	-0.8382193	0.1835039	7.12E-06
C	T	0.07	0.4439727	0.09816366	8.69E-06
G	A	0.01	-1.103006	0.2372339	4.95E-06
A	GAATTCAAGGTGATT	0.01	-1.097442	0.2390532	6.43E-06
G	A	0.06	0.4726936	0.1018574	5.15E-06
T	C	0.04	0.5633135	0.123881	7.80E-06
C	A	0.04	0.5633135	0.123881	7.80E-06
C	T	0.04	0.5633135	0.123881	7.80E-06
T	G	0.33	0.2542255	0.05519967	6.02E-06
G	A	0.03	-0.7091235	0.1575768	9.59E-06
A	T	0.05	-0.6212672	0.1268344	1.59E-06
G	A	0.02	-1.221972	0.214455	3.05E-08
C	T	0.01	-1.229641	0.2344304	3.01E-07
G	A	0.01	-1.190661	0.2498619	2.93E-06
G	T	0.01	-1.176115	0.2418397	1.87E-06
C	T	0.01	-1.176115	0.2418397	1.87E-06
C	G	0.01	-1.176115	0.2418397	1.87E-06
A	T	0.01	-1.176115	0.2418397	1.87E-06
G	A	0.01	-1.169485	0.2485212	3.84E-06
C	T	0.02	0.8695417	0.1896112	6.57E-06
T	A	0.04	-0.5939202	0.1273118	4.62E-06
A	T	0.02	0.873067	0.181724	2.45E-06
G	A	0.22	0.3093675	0.06557018	3.63E-06
C	CTATATGTG	0.02	1.013606	0.1985778	5.98E-07
A	G	0.02	1.064852	0.1976968	1.50E-07
C	G	0.02	0.978351	0.2025016	2.16E-06
T	C	0.02	0.9209027	0.1945877	3.40E-06
T	C	0.02	1.053594	0.2062904	5.89E-07
T	G	0.16	0.3360517	0.07186053	4.39E-06
G	A	0.16	0.3360517	0.07186053	4.39E-06
T	C	0.17	0.3280742	0.07073786	5.22E-06
G	A	0.17	0.3280742	0.07073786	5.22E-06
T	C	0.01	-1.04832	0.2215323	3.41E-06
GACA	G	0.1	-0.4067269	0.0828936	1.53E-06
C	T	0.1	-0.3857652	0.08455418	7.30E-06
C	T	0.11	-0.3758279	0.0813773	5.69E-06
A	G	0.15	-0.3184109	0.06964917	7.00E-06
C	T	0.03	0.6746405	0.147384	6.83E-06
A	G	0.03	0.6853912	0.148668	5.90E-06
A	G	0.07	0.4849666	0.1021432	3.17E-06
C	T	0.32	-0.2545125	0.05499273	5.45E-06
A	G	0.29	-0.2701099	0.05416362	1.05E-06
A	AT	0.01	1.140399	0.2154457	2.38E-07
TTC	T	0.01	1.123021	0.2453879	6.85E-06
A	C	0.04	-0.5945193	0.1309935	8.11E-06
T	C	0.11	0.3837037	0.08317463	5.82E-06
A	G	0.02	0.8313364	0.1837956	8.67E-06
G	A	0.02	0.9079549	0.1927657	3.77E-06
G	A	0.03	-0.713975	0.157759	8.58E-06
C	G	0.02	-0.7723814	0.171782	9.76E-06

G	T	0.48	0.2537229	0.05376025	3.61E-06
G	T	0.01	0.9664945	0.213678	8.68E-06
G	A	0.11	0.3658716	0.08114461	9.24E-06
G	A	0.02	0.9988609	0.2082905	2.55E-06
A	ACACC	0.27	-0.2769673	0.0613038	8.88E-06
C	CT	0.13	0.418245	0.08087239	4.32E-07
C	CTTATTTTATTTTATT	0.06	-0.2226758	0.04953435	9.80E-06
T	G	0.02	-0.3852779	0.08535961	9.05E-06
C	T	0.01	-0.5349446	0.1153961	5.27E-06
G	A	0.03	-0.3100625	0.06491034	2.78E-06
A	G	0.34	0.1117227	0.02477836	9.24E-06
T	C	0.01	-0.5243535	0.1162526	9.17E-06
C	T	0.05	-0.2642889	0.05642685	4.24E-06
C	A	0.04	-0.2833987	0.05844646	2.00E-06
C	T	0.04	-0.3005012	0.05750295	3.31E-07
C	T	0.41	0.1132036	0.02371564	2.82E-06
A	G	0.43	0.1199478	0.02342244	5.51E-07
A	G	0.4	0.1130664	0.02384153	3.25E-06
C	T	0.4	0.1151715	0.02385408	2.20E-06
A	G	0.4	0.1146572	0.02390843	2.55E-06
A	G	0.35	-0.1118793	0.02431685	6.15E-06
T	C	0.02	-0.3761745	0.0831492	8.64E-06
G	A	0.04	-0.2822013	0.05783086	1.73E-06
T	C	0.01	-0.5319157	0.1155049	6.04E-06
A	T	0.15	-0.1574226	0.03413406	5.86E-06
G	T	0.14	-0.1566239	0.03423969	6.92E-06
C	T	0.09	-0.1920981	0.0403887	3.05E-06
C	T	0.12	-0.1675914	0.03597559	4.76E-06
T	C	0.12	-0.1667783	0.03668415	7.83E-06
T	A	0.12	-0.1667783	0.03668415	7.83E-06
C	T	0.02	-0.3730539	0.08137335	6.62E-06
G	GGA	0.02	-0.3730539	0.08137335	6.62E-06
A	G	0.02	-0.3730539	0.08137335	6.62E-06
A	G	0.04	-0.2918488	0.06123438	2.92E-06
G	A	0.04	-0.283137	0.06135812	5.79E-06
G	A	0.01	-0.5017893	0.1087433	5.79E-06
G	C	0.04	-0.2809156	0.06161155	7.39E-06
A	G	0.39	-0.1050172	0.02298977	7.12E-06
T	G	0.01	-0.5385583	0.1116515	2.24E-06
C	T	0.02	-0.4512881	0.09443344	2.75E-06
T	C	0.07	-0.2241038	0.04428939	7.39E-07
CGT	C	0.28	-0.1302171	0.0289735	9.84E-06
C	T	0.41	-0.1064053	0.02322909	6.73E-06
G	A	0.03	-0.3079342	0.06690927	6.11E-06
G	A	0.04	-0.2637131	0.05720843	5.92E-06
A	G	0.02	-0.4166789	0.08670431	2.43E-06
AAG	A	0.04	-0.2672315	0.05937747	9.58E-06
C	CT	0.03	-0.3002334	0.06359911	3.59E-06
C	T	0.02	-0.441424	0.09158007	2.28E-06
T	C	0.01	-0.5131217	0.102889	1.04E-06

TAC	T	0.11	-0.1735007	0.03579258	2.01E-06
C	T	0.11	-0.1657555	0.03644907	7.79E-06
G	A	0.34	0.1092184	0.02415655	8.75E-06
AAAAAAC	A	0.03	-0.3480286	0.0671111	4.03E-07
T	C	0.02	-0.345622	0.07551025	6.84E-06
A	C	0.01	-0.4834245	0.1029894	4.05E-06
G	A	0.01	-0.5443202	0.1157	3.86E-06
C	T	0.01	-0.5443202	0.1157	3.86E-06
CT	C	0.24	-0.1266374	0.0276017	6.51E-06
CCTAT	C	0.02	-0.3872968	0.08516983	7.80E-06
A	AGAAT	0.03	-0.3312081	0.07309368	8.37E-06
C	T	0.03	-0.3216173	0.0694328	5.35E-06
T	C	0.01	-0.5432907	0.1116265	1.83E-06
AACACAC	A	0.01	-0.4990211	0.1085183	6.22E-06
C	T	0.12	-0.1616204	0.03534086	6.96E-06
C	A	0.12	-0.1616204	0.03534086	6.96E-06
G	A	0.01	-0.5412218	0.1153466	4.09E-06
A	G	0.15	-0.1534804	0.03285959	4.50E-06
A	G	0.15	-0.1557429	0.03287843	3.34E-06
G	A	0.15	-0.1519841	0.0329413	5.81E-06
G	A	0.14	-0.1629468	0.03299476	1.31E-06
G	T	0.16	-0.1395423	0.0310248	9.70E-06
A	G	0.14	-0.1610757	0.03370369	2.75E-06
T	C	0.16	-0.14428	0.03155838	7.00E-06
G	C	0.14	-0.1590952	0.03367046	3.52E-06
G	C	0.17	-0.1422802	0.03135691	8.15E-06
TC	T	0.14	-0.1615659	0.03361419	2.43E-06
C	T	0.14	-0.1559494	0.03335897	4.42E-06
T	C	0.17	-0.1437195	0.03116532	5.87E-06
A	G	0.14	-0.1578644	0.03338815	3.47E-06
A	G	0.14	-0.1593517	0.03380368	3.70E-06
G	T	0.16	-0.1457044	0.03136192	5.03E-06
C	G	0.14	-0.1590952	0.03367046	3.52E-06
A	G	0.22	-0.1303555	0.02791347	4.52E-06
C	T	0.22	-0.1305393	0.02817989	5.35E-06
A	G	0.22	-0.1296498	0.02805142	5.60E-06
GTT	G	0.14	-0.153067	0.03383974	8.67E-06
A	G	0.34	-0.1090134	0.02359809	5.66E-06
T	A	0.01	0.8205114	0.1376563	8.30E-09
A	G	0.02	-0.6158691	0.1030286	7.66E-09
A	G	0.02	-0.7349999	0.1105676	1.92E-10
T	C	0.01	-0.5745455	0.09693013	9.96E-09
T	C	0.02	-0.8120921	0.177927	7.25E-06
A	G	0.19	-0.313705	0.06852697	6.82E-06
C	G	0.45	-0.2600963	0.05512981	3.64E-06
CCAGG	C	0.45	-0.2477859	0.05508129	9.68E-06
C	T	0.45	-0.2483101	0.05509255	9.32E-06
T	C	0.45	-0.2532545	0.0552306	6.60E-06
A	AAAG	0.45	-0.2526676	0.05523781	6.94E-06
GT	G	0.45	-0.249151	0.05527214	9.30E-06

A	G	0.45	-0.2585654	0.05475141	3.57E-06
A	T	0.45	-0.2537755	0.05534324	6.60E-06
C	CT	0.48	-0.247967	0.05392062	6.22E-06
G	A	0.45	-0.2537755	0.05534324	6.60E-06
G	A	0.45	-0.2636171	0.05516353	2.76E-06
T	C	0.45	-0.2554564	0.05482191	4.74E-06
T	C	0.45	-0.2703516	0.05520703	1.60E-06
G	A	0.45	-0.2645363	0.05522768	2.62E-06
A	G	0.44	-0.2625721	0.05527441	3.14E-06
T	C	0.43	-0.2672168	0.05595774	2.80E-06
A	G	0.43	-0.2672168	0.05595774	2.80E-06
C	A	0.43	-0.2647373	0.0555869	2.97E-06
G	A	0.43	-0.2613645	0.05584461	4.32E-06
T	C	0.43	-0.2566445	0.05578763	6.17E-06
G	A	0.31	-0.2569028	0.05647033	7.74E-06
C	T	0.06	-0.5393112	0.1176827	6.68E-06
G	C	0.37	-0.2324838	0.05164151	9.54E-06
ACG	A	0.01	-1.059402	0.2336857	8.30E-06
T	C	0.02	1.002997	0.2166156	5.40E-06
T	C	0.02	1.003857	0.2167327	5.37E-06
G	T	0.02	0.8776489	0.1928228	7.66E-06
G	A	0.15	0.3508327	0.07771047	9.02E-06
AG	A	0.5	-0.267805	0.05466794	1.59E-06
G	A	0.03	0.7393013	0.1617112	7.01E-06
G	GA	0.26	-0.2672231	0.05758655	5.17E-06
C	CCACACACACA	0.02	-0.9091886	0.1982269	6.56E-06
G	GT	0.23	0.3202976	0.06457836	1.19E-06
C	CGTGTGTGTGTGTGT	0.03	0.6554105	0.1449453	8.74E-06
C	T	0.35	0.2586523	0.05747215	9.59E-06
GT	G	0.36	0.2863177	0.05690599	8.49E-07
A	G	0.3	0.2990359	0.06050532	1.29E-06
TCA	T	0.28	0.31708	0.06458228	1.51E-06
TTG	T	0.05	-0.5955065	0.1203055	1.25E-06
AAC	A	0.04	-0.6753065	0.1405694	2.46E-06
G	C	0.25	-0.2826693	0.06185391	7.07E-06
C	CCT	0.25	0.2966458	0.06488845	7.02E-06
G	A	0.19	0.3135411	0.06843695	6.72E-06
AT	A	0.15	0.3712411	0.07451844	1.07E-06
T	C	0.18	-0.3441252	0.07374288	4.59E-06
G	T	0.18	-0.3330726	0.07392833	9.39E-06
A	G	0.25	-0.280122	0.06150252	7.56E-06
C	G	0.25	-0.2915731	0.0599569	1.87E-06
G	A	0.25	-0.2894667	0.05970085	2.00E-06
CCATT	C	0.26	-0.2966282	0.0585085	7.07E-07
G	A	0.15	-0.3368747	0.07487794	9.66E-06
T	TACAC	0.01	-1.079981	0.2401138	9.71E-06
G	A	0.05	0.5847429	0.1248676	4.27E-06
AG	A	0.14	0.371886	0.08073339	6.01E-06
C	T	0.09	0.4371014	0.09459394	5.64E-06
T	G	0.09	0.4571479	0.09205531	1.16E-06

C	T	0.04	0.6904703	0.152629	8.66E-06
T	TTA	0.03	0.796565	0.165577	2.38E-06
A	G	0.04	0.6994307	0.1472277	3.14E-06
G	A	0.04	0.6708274	0.1491043	9.65E-06
T	C	0.07	0.4503114	0.09928071	8.22E-06
G	A	0.13	0.3544929	0.07850498	8.98E-06
T	C	0.13	0.3576511	0.07845603	7.43E-06
C	T	0.13	0.3576511	0.07845603	7.43E-06
T	C	0.13	0.3576511	0.07845603	7.43E-06
C	T	0.37	0.2620649	0.05658744	5.38E-06
G	C	0.37	0.2661932	0.0564218	3.64E-06
A	C	0.37	0.2570262	0.05613129	6.79E-06
G	A	0.23	0.3044105	0.06350799	2.58E-06
G	C	0.02	-0.80194	0.1684438	3.00E-06
G	A	0.02	-1.064152	0.2131358	1.02E-06
T	C	0.05	0.5715796	0.1245414	6.48E-06
A	G	0.01	-1.075734	0.2294081	4.15E-06
G	GATAGA	0.02	0.885089	0.1934599	6.91E-06
G	A	0.05	0.5582023	0.1236168	8.98E-06
C	T	0.06	0.5438144	0.1188716	6.92E-06
G	A	0.05	0.6020317	0.1261152	2.83E-06
T	A	0.02	0.7414998	0.1245828	8.04E-09
G	A	0.02	0.7414998	0.1245828	8.04E-09
C	T	0.02	0.7414998	0.1245828	8.04E-09
C	A	0.02	0.7414998	0.1245828	8.04E-09
CAA	C	0.02	0.7414998	0.1245828	8.04E-09
A	G	0.02	0.7414998	0.1245828	8.04E-09
G	A	0.02	0.7414998	0.1245828	8.04E-09
C	A	0.02	0.7414998	0.1245828	8.04E-09
G	A	0.02	0.7414998	0.1245828	8.04E-09
T	C	0.02	0.7414998	0.1245828	8.04E-09
G	C	0.02	0.7414998	0.1245828	8.04E-09
TG	T	0.02	0.7414998	0.1245828	8.04E-09
G	A	0.02	0.7414998	0.1245828	8.04E-09
T	TAAAACA	0.02	0.7414998	0.1245828	8.04E-09
A	G	0.02	0.7414998	0.1245828	8.04E-09
C	T	0.02	0.7414998	0.1245828	8.04E-09
T	TAA	0.02	0.7414998	0.1245828	8.04E-09
C	T	0.02	0.7414998	0.1245828	8.04E-09
A	G	0.02	0.7414998	0.1245828	8.04E-09
T	C	0.02	0.7414998	0.1245828	8.04E-09
G	T	0.02	0.7414998	0.1245828	8.04E-09
T	A	0.01	0.7565597	0.1273086	8.44E-09
C	A	0.08	-0.3471767	0.05786638	6.28E-09
G	T	0.01	-0.6843139	0.11192	3.89E-09
C	T	0.33	-0.1133993	0.02432149	4.67E-06
G	C	0.33	-0.1152292	0.02439984	3.56E-06
G	A	0.33	-0.1172685	0.02443645	2.51E-06
T	G	0.33	-0.1150126	0.02437701	3.63E-06
C	T	0.34	-0.1087965	0.0240783	8.86E-06

G	C	0.33	-0.1119816	0.02432169	6.06E-06
T	C	0.33	-0.1145736	0.02436275	3.89E-06
T	C	0.41	0.1042772	0.02313359	9.29E-06
G	A	0.01	-0.4721157	0.1014108	4.82E-06
C	T	0.01	-0.4721157	0.1014108	4.82E-06
A	ATTATAG	0.44	0.1161831	0.02428308	2.68E-06
G	A	0.39	-0.1132011	0.02412061	4.07E-06
C	T	0.37	-0.1134536	0.02464938	6.10E-06
G	A	0.37	-0.1149967	0.02471084	4.86E-06
T	G	0.41	-0.1083544	0.02407303	9.56E-06
T	C	0.49	-0.1086257	0.02313355	4.03E-06
T	C	0.49	-0.1059841	0.02314799	6.79E-06
T	C	0.23	0.1234302	0.02722256	8.27E-06
A	ATGTGTG	0.01	-0.4577496	0.1019085	9.95E-06
C	CA	0.02	-0.4406876	0.09621332	6.74E-06
A	G	0.01	-0.5966364	0.1036539	2.26E-08
G	A	0.05	-0.2706137	0.05625664	2.38E-06
C	A	0.15	0.1434907	0.03175476	8.85E-06
T	TCACACACA	0.05	-0.2362826	0.05158157	6.73E-06
G	A	0.11	-0.1762232	0.03807488	5.44E-06
C	T	0.1	0.1903258	0.03982784	2.76E-06
C	A	0.1	0.1880345	0.03998089	3.89E-06
T	C	0.1	0.1903258	0.03982784	2.76E-06
G	A	0.1	0.1903258	0.03982784	2.76E-06
G	A	0.1	0.1909551	0.04033816	3.38E-06
A	C	0.1	0.1937539	0.04010305	2.16E-06
G	A	0.1	0.1936089	0.04016222	2.27E-06
C	T	0.1	0.1888387	0.03995543	3.50E-06
T	C	0.1	0.1903258	0.03982784	2.76E-06
T	C	0.1	0.1903258	0.03982784	2.76E-06
C	G	0.1	0.1903258	0.03982784	2.76E-06
T	G	0.1	0.1892509	0.0398905	3.23E-06
G	A	0.1	0.1903258	0.03982784	2.76E-06
C	CTTG	0.1	0.1863128	0.04000675	4.79E-06
A	C	0.1	0.1903258	0.03982784	2.76E-06
A	AGT	0.03	-0.3087866	0.0686967	9.82E-06
T	A	0.02	-0.4636854	0.09503243	1.73E-06
TTTATA	T	0.02	-0.4535112	0.0951594	2.92E-06
A	ATT	0.02	-0.4360141	0.09141188	2.87E-06
G	A	0.05	-0.2450137	0.05448794	9.74E-06
G	A	0.07	-0.2059449	0.04465552	5.86E-06
C	T	0.07	-0.2059449	0.04465552	5.86E-06
A	G	0.07	-0.2059449	0.04465552	5.86E-06
G	A	0.07	-0.2031348	0.04505042	9.23E-06
T	C	0.07	-0.2031348	0.04505042	9.23E-06
A	G	0.07	-0.210162	0.0448087	4.12E-06
C	T	0.07	-0.2031348	0.04505042	9.23E-06
G	A	0.07	-0.2031348	0.04505042	9.23E-06
T	C	0.07	-0.2031348	0.04505042	9.23E-06
T	G	0.07	-0.210162	0.0448087	4.12E-06

A	G	0.08	-0.2121033	0.04447414	2.88E-06
T	C	0.08	-0.2121033	0.04447414	2.88E-06
C	A	0.08	-0.2121033	0.04447414	2.88E-06
A	C	0.13	-0.1598091	0.03391563	3.74E-06
T	C	0.12	-0.1662745	0.03422676	1.91E-06
TACAC	T	0.08	-0.2121033	0.04447414	2.88E-06
A	G	0.08	-0.2121033	0.04447414	2.88E-06
G	A	0.13	-0.1547822	0.03369579	6.36E-06
G	A	0.13	-0.1640928	0.03420858	2.54E-06
T	G	0.12	-0.1662745	0.03422676	1.91E-06
G	GT	0.08	-0.2121033	0.04447414	2.88E-06
G	A	0.08	-0.2121033	0.04447414	2.88E-06
C	T	0.08	-0.2121033	0.04447414	2.88E-06
A	G	0.13	-0.155489	0.03218346	2.16E-06
A	T	0.08	-0.2121033	0.04447414	2.88E-06
G	A	0.08	-0.2121033	0.04447414	2.88E-06
G	A	0.13	-0.1606213	0.03395319	3.43E-06
C	T	0.13	-0.1598873	0.0339816	3.85E-06
T	A	0.08	-0.2121033	0.04447414	2.88E-06
A	G	0.13	-0.1704398	0.03384522	8.29E-07
G	A	0.08	-0.2121033	0.04447414	2.88E-06
C	T	0.08	-0.2121033	0.04447414	2.88E-06
T	C	0.13	-0.1598873	0.0339816	3.85E-06
G	C	0.08	-0.2121033	0.04447414	2.88E-06
C	T	0.07	-0.227976	0.04745432	2.45E-06
C	T	0.07	-0.2137095	0.04702821	7.90E-06
A	ATGTGTGTGTGTG	0.01	-0.3965762	0.08787084	9.06E-06
G	GT	0.01	-0.5566223	0.1186893	4.13E-06
G	C	0.2	-0.1351308	0.02975067	7.98E-06
C	T	0.48	0.1061734	0.02336455	7.91E-06
G	A	0.03	-0.3136828	0.0693206	8.60E-06
G	A	0.01	-0.4912047	0.1084798	8.49E-06
T	G	0.06	-0.2282959	0.0477519	2.73E-06
A	G	0.06	-0.2376505	0.04879565	1.81E-06
A	G	0.06	-0.2383747	0.04648064	5.32E-07
T	C	0.06	-0.2309999	0.04699131	1.46E-06
G	A	0.06	-0.2383747	0.04648064	5.32E-07
C	T	0.05	-0.227974	0.04925818	5.45E-06
C	T	0.05	-0.2735163	0.05392434	6.97E-07
G	A	0.03	-0.3198277	0.06858995	4.66E-06
C	A	0.03	-0.3127147	0.0686252	7.48E-06
C	T	0.04	-0.2896463	0.05963181	1.92E-06
ACACACACACACAC	C	0.03	-0.3112199	0.06015504	4.28E-07
TC	T	0.03	-0.304407	0.06644035	6.70E-06
C	T	0.29	-0.1182086	0.02542809	4.97E-06
C	CT	0.01	-0.4790748	0.1020918	4.08E-06
G	C	0.04	-0.2673759	0.05585317	2.65E-06
G	A	0.16	-0.1494184	0.03157677	3.41E-06
G	A	0.02	-0.3930626	0.08687189	8.62E-06
G	T	0.01	-0.5539422	0.09918675	5.48E-08

C	A	0.01	-0.4954796	0.1042501	3.10E-06
C	T	0.02	-0.3641597	0.07847396	5.15E-06
G	A	0.05	-0.2353739	0.05221115	9.27E-06
T	G	0.05	-0.2353739	0.05221115	9.27E-06
T	C	0.05	-0.2353739	0.05221115	9.27E-06
C	A	0.02	-0.388035	0.08038398	2.20E-06
C	G	0.02	-0.3779267	0.07782838	1.93E-06
A	AAAAAG	0.01	-0.4597729	0.1011465	7.86E-06
A	G	0.01	-0.5219624	0.1162305	1.00E-05
C	T	0.03	-0.3338034	0.07418581	9.62E-06
G	A	0.02	-0.4053213	0.08845059	6.68E-06
T	TAC	0.06	-0.2714318	0.04979442	1.08E-07
C	T	0.01	-0.4555476	0.1012477	9.63E-06
G	A	0.03	-0.2804334	0.06175677	8.02E-06
G	GT	0.01	-0.517776	0.1031062	8.87E-07
C	T	0.02	-0.4535064	0.09459208	2.57E-06
A	ATGTGTGTG	0.05	-0.2964555	0.05477117	1.31E-07
AT	A	0.12	-0.1803024	0.03782479	2.91E-06
C	T	0.03	0.3248649	0.07070082	6.32E-06
T	C	0.03	0.3241767	0.07036245	5.98E-06
G	C	0.03	0.3065189	0.06771413	8.54E-06
C	T	0.03	0.3751572	0.08240876	7.63E-06
G	A	0.02	0.4620607	0.1011474	7.11E-06
C	A	0.21	0.1366411	0.03026749	9.01E-06
A	AAACAAC	0.05	-0.2767469	0.05975488	5.37E-06
C	T	0.35	0.1175807	0.02590078	8.07E-06
A	T	0.02	0.3983098	0.08206156	1.95E-06
TTG	T	0.07	0.2313147	0.0508027	7.60E-06
A	G	0.2	0.146222	0.03184282	6.40E-06
G	GTTCACTTTT	0.12	0.1894169	0.03981461	3.04E-06
C	T	0.27	0.1239149	0.02722709	7.67E-06
CGTGTGT	C	0.04	0.2939028	0.06324956	5.01E-06
C	T	0.28	-0.1174189	0.02509466	4.33E-06
AT	A	0.03	0.2967695	0.06587784	9.40E-06
G	A	0.02	0.4185088	0.08805224	3.10E-06
G	A	0.04	0.3095667	0.06628868	4.52E-06
T	C	0.47	0.1131822	0.0247106	6.74E-06
C	T	0.04	0.3050499	0.06595938	5.53E-06
G	T	0.27	0.1158726	0.02557662	8.40E-06
C	CT	0.44	-0.1040732	0.02306366	9.09E-06
A	AAAAT	0.07	0.2462201	0.04746504	4.00E-07
C	T	0.03	0.3461399	0.0736735	3.97E-06
T	C	0.02	0.4698329	0.1031926	7.61E-06
T	C	0.02	0.4057521	0.0892516	7.84E-06
T	TAC	0.11	0.1910947	0.04200059	7.71E-06
T	C	0.01	0.5558574	0.122375	7.98E-06
A	G	0.42	0.1133447	0.02523857	9.99E-06
C	T	0.29	-0.1415654	0.02688761	2.73E-07
CATAATTGGAAGTA	C	0.1	-0.1961833	0.04337546	8.68E-06
C	G	0.39	0.1168677	0.02570015	7.80E-06

C	T	0.38	0.1170649	0.02590863	8.86E-06
T	C	0.38	0.118074	0.02586189	7.20E-06
AT	A	0.37	0.1203637	0.02583812	4.76E-06
G	A	0.38	0.1188918	0.02589802	6.43E-06
T	C	0.37	0.1183659	0.02586091	6.84E-06
CT	C	0.13	0.1783738	0.03534108	7.86E-07
TTGTGTGTG	T	0.22	0.1447225	0.03118685	5.15E-06
C	T	0.15	0.1546455	0.03440839	9.84E-06
T	C	0.36	0.115172	0.02557104	9.43E-06
G	A	0.5	-0.1128436	0.02512188	9.95E-06
G	A	0.02	0.4075235	0.08946337	7.53E-06
GCACA	G	0.07	0.2324246	0.05104284	7.59E-06
T	C	0.24	0.1521582	0.03000446	7.01E-07
T	C	0.24	0.1473198	0.03016688	1.70E-06
GT	G	0.17	0.1494439	0.03270745	7.08E-06
T	C	0.03	0.3778711	0.07076005	1.89E-07
A	G	0.03	0.411665	0.07226908	3.08E-08
T	C	0.03	0.4306851	0.07301551	1.06E-08
T	C	0.03	0.3206588	0.07102687	9.01E-06
T	TACAC	0.07	0.2345912	0.05096258	6.09E-06
C	A	0.25	-0.1398764	0.02809869	1.09E-06
G	A	0.07	0.4946178	0.1090252	8.17E-06
A	C	0.05	-0.5727391	0.1243684	6.04E-06
T	C	0.19	-0.3199493	0.06760806	3.40E-06
G	A	0.22	-0.2836778	0.06235288	7.72E-06
G	C	0.21	0.305659	0.06782764	9.34E-06
A	G	0.21	0.3062785	0.06787776	9.10E-06
G	T	0.3	0.2708431	0.05712	3.26E-06
T	C	0.02	0.8987286	0.1928434	4.71E-06
G	C	0.14	0.3780661	0.08069287	4.22E-06
C	T	0.14	0.3745641	0.0809449	5.47E-06
C	CA	0.14	0.3839957	0.08098037	3.26E-06
G	T	0.14	0.3780661	0.08069287	4.22E-06
A	G	0.14	0.3780661	0.08069287	4.22E-06
T	C	0.14	0.3780661	0.08069287	4.22E-06
G	A	0.14	0.3732172	0.08080586	5.68E-06
A	G	0.14	0.3780661	0.08069287	4.22E-06
G	A	0.14	0.3780661	0.08069287	4.22E-06
T	G	0.14	0.3780661	0.08069287	4.22E-06
G	A	0.13	0.4032408	0.08208628	1.48E-06
T	C	0.14	0.3741859	0.08116226	5.90E-06
T	C	0.14	0.3780661	0.08069287	4.22E-06
C	T	0.14	0.3780661	0.08069287	4.22E-06
C	T	0.14	0.3780661	0.08069287	4.22E-06
AAAC	A	0.07	0.4789861	0.103801	5.79E-06
T	A	0.07	0.4789861	0.103801	5.79E-06
C	T	0.07	0.4861911	0.1040006	4.42E-06
T	C	0.07	0.4789861	0.103801	5.79E-06
A	C	0.07	0.4789861	0.103801	5.79E-06
C	A	0.07	0.4789861	0.103801	5.79E-06

C	T	0.07	0.4789861	0.103801	5.79E-06
G	T	0.07	0.4635702	0.1031893	9.92E-06
CA	C	0.07	0.4789861	0.103801	5.79E-06
A	C	0.07	0.4789861	0.103801	5.79E-06
T	C	0.07	0.4789861	0.103801	5.79E-06
T	A	0.07	0.4789861	0.103801	5.79E-06
T	C	0.07	0.4789861	0.103801	5.79E-06
A	C	0.07	0.4789861	0.103801	5.79E-06
T	TTC	0.12	0.3954462	0.08536889	5.35E-06
G	C	0.26	0.2690112	0.05852458	6.27E-06
C	T	0.19	0.3201878	0.06821295	4.05E-06
C	G	0.25	0.2880617	0.06111155	3.71E-06
T	C	0.25	0.276502	0.06110476	8.60E-06
C	T	0.04	0.6447719	0.1429668	9.19E-06
G	A	0.01	1.016656	0.2207728	6.04E-06
G	T	0.03	0.7881565	0.1677105	3.95E-06
C	G	0.03	0.7881565	0.1677105	3.95E-06
C	G	0.02	0.7821555	0.1692229	5.60E-06
A	T	0.23	-0.2804235	0.06155184	7.51E-06
C	T	0.04	0.6276025	0.1369347	6.65E-06
G	A	0.02	1.09843	0.2209378	1.12E-06
TCA	T	0.14	-0.4663627	0.08056022	1.90E-08
C	T	0.12	-0.4021857	0.08582233	4.20E-06
G	A	0.12	-0.3879953	0.08563067	8.38E-06
T	C	0.12	-0.3980614	0.08548352	4.80E-06
A	G	0.12	-0.3980614	0.08548352	4.80E-06
T	A	0.12	-0.4113164	0.08560597	2.45E-06
TA	T	0.19	-0.3449375	0.07003177	1.40E-06
G	A	0.12	-0.4113164	0.08560597	2.45E-06
G	T	0.12	-0.4113164	0.08560597	2.45E-06
CT	C	0.12	-0.4177514	0.08556765	1.71E-06
G	A	0.12	-0.4071047	0.08582886	3.24E-06
T	C	0.12	-0.4221202	0.08571776	1.40E-06
G	A	0.12	-0.4073608	0.08579569	3.17E-06
G	A	0.12	-0.4493123	0.08441769	2.06E-07
T	C	0.14	-0.352716	0.07650041	5.89E-06
C	T	0.07	0.4777458	0.1052791	8.13E-06
G	A	0.14	-0.3116794	0.06915258	9.31E-06
G	A	0.04	0.6540963	0.1439778	7.95E-06
G	A	0.02	0.9703819	0.1634775	8.73E-09
A	G	0.03	0.3276592	0.05479812	8.46E-09
C	T	0.01	-0.8657636	0.1451917	9.33E-09
A	G	0.02	-0.7474343	0.122234	3.47E-09
T	C	0.37	-0.1925822	0.03211862	6.58E-09
T	C	0.37	-0.1902934	0.03143858	5.01E-09
T	G	0.06	0.5011086	0.1094855	6.85E-06
CT	C	0.05	-0.6153882	0.1255653	1.57E-06
G	A	0.24	-0.2898562	0.06333302	6.86E-06
C	T	0.45	0.2739203	0.0556539	1.42E-06
T	A	0.37	0.2739445	0.0548846	1.03E-06

G	A	0.37	0.2793062	0.0548076	6.23E-07
G	A	0.37	0.2667376	0.05508949	2.06E-06
A	G	0.37	0.2711234	0.05514302	1.46E-06
A	AGT	0.46	-0.2316299	0.05088785	7.65E-06
C	A	0.02	0.9779554	0.2096666	4.64E-06
T	C	0.34	0.2624947	0.05792497	8.37E-06
G	C	0.22	0.2957656	0.06515293	8.08E-06
G	A	0.36	0.2582115	0.0571785	8.96E-06
T	C	0.37	0.2655837	0.05701761	4.77E-06
T	C	0.37	0.2638032	0.05706695	5.59E-06
G	A	0.37	0.2595264	0.05717681	8.10E-06
A	C	0.37	0.2701108	0.05701969	3.34E-06
G	A	0.37	0.2587953	0.05697553	7.98E-06
A	G	0.29	0.2819425	0.06076943	5.18E-06
T	G	0.38	0.2806431	0.05660756	1.20E-06
T	A	0.33	0.2723751	0.05693918	2.70E-06
A	G	0.38	0.2784065	0.05668539	1.49E-06
A	G	0.33	0.2618753	0.05685431	6.02E-06
G	A	0.37	0.275042	0.05688098	2.13E-06
T	C	0.37	0.2570069	0.05650266	7.76E-06
TA	T	0.37	0.2650031	0.05665924	4.38E-06
G	T	0.37	0.2719197	0.05679682	2.65E-06
T	A	0.37	0.2706051	0.0566833	2.82E-06
A	G	0.33	0.2766404	0.05682494	1.83E-06
A	G	0.33	0.2716258	0.05613219	2.09E-06
G	C	0.33	0.2556377	0.05670935	9.29E-06
T	C	0.03	-0.8433601	0.1656316	6.36E-07
G	A	0.03	-0.8433601	0.1656316	6.36E-07
C	T	0.03	-0.8641257	0.1680308	4.98E-07
G	A	0.5	0.238205	0.05255326	8.33E-06
G	T	0.48	-0.2427423	0.0535657	8.36E-06
C	T	0.06	0.4930926	0.1095026	9.48E-06
AT	A	0.06	0.5003828	0.1113935	9.95E-06
G	A	0.24	-0.2804237	0.06184265	8.26E-06
C	T	0.24	-0.2816359	0.06184767	7.59E-06
A	G	0.37	0.2484215	0.05471371	8.05E-06
C	CT	0.18	-0.325908	0.07125707	6.95E-06
G	A	0.09	0.4169141	0.09040981	5.88E-06
T	C	0.15	0.3470054	0.07723906	9.93E-06
G	A	0.04	-0.6870748	0.1474265	4.72E-06
A	G	0.04	-0.6870748	0.1474265	4.72E-06
T	C	0.02	-0.8709191	0.191494	7.78E-06
G	T	0.02	-0.8709191	0.191494	7.78E-06
C	T	0.02	-0.8709191	0.191494	7.78E-06
G	A	0.01	1.06669	0.2350319	8.12E-06
ATGTG	A	0.01	1.299917	0.2373696	9.55E-08
C	T	0.01	-1.059881	0.2268214	4.46E-06
C	T	0.03	-0.7480379	0.1551707	2.28E-06
T	AGAAAGGCAAGAAAC	0.05	0.5550076	0.1221913	7.99E-06
C	T	0.02	-0.9287444	0.2062421	9.48E-06

C	G	0.02	1.068175	0.2098624	6.42E-07
C	T	0.02	0.9765166	0.212092	6.07E-06
C	T	0.06	-0.5148812	0.1133623	8.00E-06
A	G	0.17	-0.3318866	0.07298834	7.81E-06
TA	T	0.17	-0.3318866	0.07298834	7.81E-06
C	T	0.16	-0.339024	0.0731755	5.34E-06
T	TACACACAC	0.14	-0.385439	0.08316661	5.30E-06
G	A	0.16	-0.3383191	0.07328418	5.74E-06
G	A	0.14	-0.432127	0.0811823	2.06E-07
A	T	0.15	-0.3848474	0.0794935	2.07E-06
C	T	0.17	-0.3321348	0.07275823	7.22E-06
A	T	0.17	-0.3321348	0.07275823	7.22E-06
A	C	0.17	-0.3307067	0.07155986	5.62E-06
G	C	0.15	-0.396022	0.07855721	8.10E-07
A	C	0.15	-0.3951801	0.07728293	5.73E-07
T	G	0.17	-0.3548654	0.07285854	1.81E-06
A	G	0.15	-0.3851905	0.07950013	2.03E-06
A	G	0.17	-0.3306999	0.07293914	8.28E-06
C	T	0.17	-0.3321348	0.07275823	7.22E-06
T	C	0.17	-0.3321348	0.07275823	7.22E-06
A	AG	0.17	-0.3321348	0.07275823	7.22E-06
T	A	0.17	-0.3321348	0.07275823	7.22E-06
C	A	0.16	-0.339024	0.0731755	5.34E-06
A	C	0.16	-0.339024	0.0731755	5.34E-06
A	G	0.17	-0.3375708	0.07276744	5.19E-06
C	T	0.17	-0.3321348	0.07275823	7.22E-06
T	C	0.17	-0.3321348	0.07275823	7.22E-06
T	C	0.17	-0.3321348	0.07275823	7.22E-06
A	G	0.17	-0.3321348	0.07275823	7.22E-06
C	T	0.16	-0.339024	0.0731755	5.34E-06
CAA	C	0.17	-0.3321348	0.07275823	7.22E-06
G	A	0.15	-0.3565554	0.07704473	5.46E-06
G	C	0.15	-0.3639997	0.07521409	2.09E-06
C	T	0.15	-0.3639997	0.07521409	2.09E-06
A	G	0.16	-0.3491112	0.07541549	5.43E-06
CT	C	0.15	-0.3510678	0.07696582	7.34E-06
GT	G	0.19	-0.3128816	0.06836986	6.87E-06
G	A	0.18	0.3195351	0.06895712	5.32E-06
T	C	0.17	0.3356939	0.07115979	3.65E-06
T	C	0.45	-0.2519003	0.05537357	7.75E-06
C	A	0.44	-0.252308	0.05529148	7.28E-06
G	A	0.5	0.2601103	0.05503501	3.50E-06
A	G	0.49	0.2493075	0.05504942	8.47E-06
C	T	0.4	-0.2429901	0.05392846	9.37E-06
C	T	0.43	-0.2296221	0.05050073	7.82E-06
G	C	0.4	-0.242465	0.05387399	9.59E-06
TGTA	T	0.49	0.2590898	0.05476365	3.43E-06
G	GATAT	0.31	-0.3150886	0.05817955	1.30E-07
T	G	0.4	-0.2452008	0.05387154	7.66E-06
T	TAC	0.39	-0.2461356	0.05386404	7.08E-06

C	T	0.4	-0.2429901	0.05392846	9.37E-06
TAGG	T	0.49	0.2541601	0.05486022	5.34E-06
C	T	0.23	-0.2984985	0.06489459	6.19E-06
CTTTG	C	0.49	0.2517767	0.05464232	5.97E-06
T	C	0.48	0.2509737	0.0549525	7.15E-06
C	T	0.48	0.2586057	0.05503655	3.97E-06
G	A	0.48	0.2586057	0.05503655	3.97E-06
G	A	0.49	0.2566691	0.05492185	4.45E-06
G	A	0.49	0.2566691	0.05492185	4.45E-06
A	G	0.22	-0.3141592	0.06620387	3.21E-06
C	T	0.48	0.2586057	0.05503655	3.97E-06
C	A	0.31	-0.2992251	0.05940507	8.26E-07
T	A	0.31	-0.2992251	0.05940507	8.26E-07
G	A	0.31	-0.2992251	0.05940507	8.26E-07
G	A	0.31	-0.2992251	0.05940507	8.26E-07
A	G	0.48	0.2520515	0.05445283	5.44E-06
G	A	0.22	-0.3007498	0.06514454	5.74E-06
G	A	0.48	0.2545936	0.0545904	4.65E-06
G	A	0.22	-0.3007498	0.06514454	5.74E-06
A	AG	0.31	-0.2944387	0.0596086	1.31E-06
T	G	0.31	-0.2874938	0.05962326	2.26E-06
A	G	0.31	-0.2997335	0.05936984	7.82E-07
G	T	0.49	-0.2859027	0.05437847	2.84E-07
G	A	0.48	0.248544	0.05462278	7.71E-06
A	G	0.22	-0.3007498	0.06514454	5.74E-06
T	C	0.22	-0.3007498	0.06514454	5.74E-06
T	C	0.49	-0.2906416	0.05453301	1.99E-07
G	C	0.3	-0.2884246	0.05931381	1.87E-06
T	C	0.31	-0.3031089	0.05941757	6.07E-07
G	A	0.3	0.2787054	0.06056779	6.14E-06
T	C	0.31	-0.2959754	0.05952104	1.12E-06
C	A	0.22	-0.3011356	0.06514069	5.58E-06
A	G	0.48	0.2535585	0.05449209	4.88E-06
A	C	0.49	-0.2873124	0.05441233	2.54E-07
T	G	0.21	-0.3181219	0.06569643	2.06E-06
C	T	0.22	-0.3007498	0.06514454	5.74E-06
GT	G	0.31	-0.2966172	0.05945517	1.04E-06
A	G	0.22	-0.3007498	0.06514454	5.74E-06
G	GTCA	0.49	-0.2881975	0.05448183	2.43E-07
G	A	0.31	-0.3047309	0.05939866	5.28E-07
G	A	0.4	-0.2430386	0.05368426	8.53E-06
C	G	0.41	-0.2453379	0.05377752	7.31E-06
G	A	0.41	-0.2444774	0.05372768	7.70E-06
CT	C	0.49	0.2518162	0.05452409	5.69E-06
T	C	0.41	-0.2483726	0.05371298	5.55E-06
T	G	0.41	-0.2473096	0.05367807	5.99E-06
T	G	0.41	-0.2483726	0.05371298	5.55E-06
C	T	0.41	-0.2481295	0.05370824	5.66E-06
G	A	0.41	-0.2441564	0.05367614	7.76E-06
G	A	0.46	-0.283844	0.05331831	2.05E-07

A	G	0.46	-0.2784343	0.05328584	3.33E-07
C	A	0.31	0.2906466	0.0589013	1.34E-06
T	C	0.29	0.2767087	0.06001632	5.90E-06
G	A	0.32	0.2673248	0.05851645	7.11E-06
C	T	0.03	-0.7862823	0.1722314	7.21E-06
G	T	0.01	1.042645	0.2317437	9.65E-06
T	C	0.04	0.5929015	0.1288106	6.10E-06
T	C	0.04	0.5852054	0.1280227	7.03E-06
A	AACACACAC	0.04	0.673336	0.1422814	3.41E-06
C	T	0.03	-0.7291311	0.1585463	6.21E-06
C	T	0.03	-0.7291311	0.1585463	6.21E-06
C	T	0.03	-0.7291311	0.1585463	6.21E-06
C	A	0.02	-0.5874971	0.08826774	1.76E-10
T	A	0.01	0.7276567	0.1149868	1.02E-09
A	G	0.02	-0.7108647	0.1199896	9.37E-09
G	A	0.01	-0.6086185	0.09641285	1.13E-09
C	T	0.01	-0.6086185	0.09641285	1.13E-09
G	GATAT	0.31	-0.125573	0.02116976	8.99E-09
A	G	0.45	-0.1142957	0.01932636	9.88E-09
AT	A	0.02	0.5217277	0.08696561	7.60E-09
G	A	0.36	0.2533392	0.05460837	5.18E-06
C	T	0.01	-1.043587	0.2262229	5.83E-06
C	T	0.01	-1.090018	0.2272363	2.54E-06
G	A	0.01	-1.090018	0.2272363	2.54E-06
G	T	0.01	-1.090018	0.2272363	2.54E-06
C	G	0.01	-1.090018	0.2272363	2.54E-06
ATATGTG	A	0.05	-0.5833637	0.1272443	6.61E-06
G	A	0.02	0.8677498	0.1835036	3.46E-06
T	C	0.11	0.3748271	0.08248271	7.90E-06
A	G	0.11	0.3748271	0.08248271	7.90E-06
CA	C	0.11	0.3748271	0.08248271	7.90E-06
TC	T	0.11	0.3748271	0.08248271	7.90E-06
G	T	0.11	0.3748271	0.08248271	7.90E-06
C	T	0.12	0.4000617	0.07997682	9.73E-07
T	TA	0.13	0.365245	0.07855901	4.95E-06
A	AG	0.1	0.4196949	0.09132756	6.30E-06
G	A	0.02	-0.9149255	0.192552	3.12E-06
A	C	0.01	1.233703	0.2575979	2.63E-06
C	T	0.01	1.206393	0.267044	8.89E-06
T	TA	0.05	-0.608273	0.1255551	2.03E-06
T	TA	0.09	-0.4177067	0.09190314	7.88E-06
G	A	0.02	0.9945101	0.219739	8.57E-06
GAGAT	G	0.25	-0.3185657	0.06285712	7.11E-07
C	G	0.44	0.2503341	0.05324135	3.91E-06
C	CT	0.07	-0.472347	0.1016582	5.02E-06
G	A	0.04	-0.6292126	0.1352198	4.87E-06
A	AAAATAAAT	0.04	-0.6195597	0.1366757	8.30E-06
A	C	0.01	-1.241937	0.2729305	7.69E-06
T	C	0.01	-1.241937	0.2729305	7.69E-06
T	G	0.01	-1.241937	0.2729305	7.69E-06

G	A	0.01	-1.241937	0.2729305	7.69E-06
G	C	0.01	-1.241937	0.2729305	7.69E-06
G	T	0.01	-1.241937	0.2729305	7.69E-06
A	T	0.01	-1.241937	0.2729305	7.69E-06
G	A	0.01	-1.241937	0.2729305	7.69E-06
CGT	C	0.01	-1.241937	0.2729305	7.69E-06
C	T	0.01	-1.241937	0.2729305	7.69E-06
G	A	0.01	-1.241937	0.2729305	7.69E-06
C	T	0.01	-1.241937	0.2729305	7.69E-06
T	C	0.01	-1.241937	0.2729305	7.69E-06
G	A	0.01	-1.241937	0.2729305	7.69E-06
C	T	0.01	-1.241937	0.2729305	7.69E-06
G	A	0.01	-1.241937	0.2729305	7.69E-06
T	TC	0.01	-1.241937	0.2729305	7.69E-06
G	A	0.01	-1.272687	0.2557862	1.10E-06
C	T	0.01	-1.241937	0.2729305	7.69E-06
T	G	0.01	-1.241937	0.2729305	7.69E-06
T	G	0.01	-1.038288	0.2277587	7.42E-06
C	A	0.03	0.7160645	0.1538435	4.84E-06
GC	G	0.3	-0.2743961	0.05991582	6.76E-06
A	AT	0.02	-0.9399173	0.1890396	1.12E-06
T	C	0.01	-1.090414	0.2310045	3.60E-06
A	G	0.02	-0.9474734	0.2087993	8.14E-06
C	A	0.02	-0.8038217	0.1741108	5.73E-06
C	CACTT	0.2	-0.3135906	0.06766289	5.29E-06
G	GA	0.5	0.2440836	0.05329833	6.76E-06
G	A	0.01	-1.279787	0.2720168	3.86E-06
C	G	0.02	-1.089369	0.2041428	1.92E-07
C	CAA	0.02	-1.089369	0.2041428	1.92E-07
G	C	0.43	-0.24503	0.05406192	8.33E-06
G	T	0.02	-0.8386515	0.1761123	2.97E-06
T	G	0.09	-0.3922115	0.08454087	5.18E-06
G	A	0.12	-0.3651897	0.07819027	4.50E-06
G	T	0.03	-0.6532028	0.1444539	8.72E-06
T	G	0.06	-0.579386	0.1161033	1.03E-06
C	A	0.11	-0.4061621	0.08619724	3.73E-06
A	T	0.11	-0.4061621	0.08619724	3.73E-06
G	A	0.11	-0.4061621	0.08619724	3.73E-06
G	A	0.11	-0.4154199	0.08630031	2.35E-06
G	A	0.11	-0.3998159	0.08653067	5.64E-06
A	G	0.11	-0.4112167	0.08664019	3.20E-06
C	T	0.11	-0.3944612	0.08638479	7.17E-06
T	C	0.11	-0.4061621	0.08619724	3.73E-06
C	T	0.11	-0.4061621	0.08619724	3.73E-06
A	T	0.11	-0.4061621	0.08619724	3.73E-06
A	G	0.11	-0.4061621	0.08619724	3.73E-06
C	T	0.11	-0.4061621	0.08619724	3.73E-06
G	T	0.07	-0.4899003	0.09935507	1.36E-06
A	G	0.07	-0.4912969	0.09967446	1.37E-06
T	TA	0.04	-0.6153672	0.1341948	6.58E-06

G	C	0.02	-0.8902008	0.1684499	2.48E-07
T	G	0.03	-0.7698723	0.1557529	1.29E-06
T	C	0.01	-1.198919	0.2655283	8.98E-06
A	T	0.14	0.355273	0.07860467	8.81E-06
A	T	0.14	0.3608887	0.07726932	4.50E-06
G	GAGAAAGAA	0.06	-0.5714699	0.1148741	1.11E-06
A	G	0.02	-0.9173163	0.1946366	3.72E-06
T	C	0.02	-0.8941331	0.193942	5.90E-06
G	A	0.01	-1.053183	0.2283671	5.86E-06
G	A	0.13	0.3488867	0.07720295	8.83E-06
A	C	0.13	0.3488867	0.07720295	8.83E-06
T	G	0.13	0.3488867	0.07720295	8.83E-06
G	A	0.01	-1.022717	0.2273364	9.66E-06
A	C	0.04	-0.645992	0.1372565	3.83E-06
G	T	0.04	-0.7243423	0.1438003	8.24E-07
G	A	0.03	-0.684796	0.1502492	7.45E-06
T	C	0.05	-0.5917957	0.1314146	9.46E-06
G	A	0.03	-0.8603369	0.1534018	4.86E-08
C	T	0.04	-0.807789	0.1484181	1.13E-07
G	T	0.02	-0.8219288	0.1772335	5.22E-06
T	C	0.02	-0.9338492	0.1736867	1.57E-07
G	A	0.02	-0.8825044	0.1779907	1.20E-06
C	T	0.02	-0.8705561	0.1780018	1.64E-06
C	T	0.02	-0.8791292	0.1848624	3.06E-06
A	G	0.02	-0.8388865	0.1743113	2.36E-06
G	C	0.02	-0.7963549	0.1755188	8.16E-06
GA	G	0.03	-0.8226696	0.1674935	1.49E-06
G	C	0.02	-0.8420775	0.1734464	1.94E-06
C	T	0.02	-0.8509395	0.1875998	8.20E-06
C	T	0.03	-0.7684422	0.1509336	6.36E-07
G	A	0.02	-0.8664727	0.1839783	3.78E-06
G	A	0.02	-0.8745205	0.1905381	6.46E-06
C	T	0.02	-0.8456981	0.1874775	9.15E-06
G	A	0.02	-1.001698	0.2041038	1.52E-06
G	A	0.21	-0.2914035	0.06473058	9.53E-06
C	G	0.21	-0.301568	0.0634164	3.07E-06
C	T	0.03	-0.6845327	0.1476473	5.25E-06
A	G	0.01	1.091087	0.2308693	3.51E-06
A	G	0.13	-0.361923	0.08056996	9.94E-06
G	A	0.03	-0.7028151	0.1558212	9.17E-06
C	T	0.04	-0.6671059	0.1425239	4.30E-06
A	G	0.03	-0.8158818	0.1533329	2.07E-07
G	A	0.03	-0.7363021	0.1505907	1.65E-06
T	G	0.01	-1.222431	0.2708898	9.08E-06
CATG	C	0.15	-0.3354642	0.07407494	8.47E-06
G	GTTT	0.12	-0.4011271	0.08237549	1.81E-06
T	C	0.06	-0.5097821	0.1129219	9.01E-06
C	T	0.02	-0.9210057	0.2002772	6.21E-06
T	C	0.02	-0.9399474	0.2035945	5.73E-06
C	G	0.02	-0.9399474	0.2035945	5.73E-06

G	A	0.02	-0.9399474	0.2035945	5.73E-06
AAC	A	0.02	-0.9399474	0.2035945	5.73E-06
G	T	0.02	-0.9399474	0.2035945	5.73E-06
T	C	0.02	-0.9399474	0.2035945	5.73E-06
C	T	0.02	-0.9399474	0.2035945	5.73E-06
A	AT	0.02	-0.9377642	0.1963872	2.80E-06
C	T	0.02	-0.9399474	0.2035945	5.73E-06
T	A	0.02	-0.9399474	0.2035945	5.73E-06
C	T	0.02	-0.9438742	0.2084018	8.45E-06
T	C	0.02	-0.9248076	0.2041129	8.39E-06
T	C	0.02	-1.04294	0.2175309	2.56E-06
A	T	0.04	-0.6332305	0.1390548	7.58E-06
C	G	0.02	-0.8509088	0.1818356	4.32E-06
C	T	0.02	-0.8509088	0.1818356	4.32E-06
A	G	0.02	-0.8509088	0.1818356	4.32E-06
G	T	0.01	-1.233761	0.2567384	2.44E-06
T	C	0.1	0.4164485	0.09097786	6.83E-06
C	G	0.02	-1.059531	0.2038028	3.78E-07
A	T	0.02	-1.059531	0.2038028	3.78E-07
C	T	0.02	-1.059531	0.2038028	3.78E-07
T	TTG	0.03	-0.749032	0.1600741	4.33E-06
C	T	0.02	-1.189119	0.2122915	5.04E-08
G	A	0.02	-0.8198565	0.1711538	2.62E-06
C	T	0.02	-0.8198565	0.1711538	2.62E-06
G	A	0.04	-0.6071651	0.1333237	7.57E-06
CA	C	0.3	0.2447755	0.05447813	9.90E-06
G	C	0.13	-0.3871406	0.07771677	1.07E-06
T	C	0.12	-0.4400851	0.0793245	6.62E-08
T	C	0.12	-0.3816608	0.07935022	2.39E-06
C	T	0.13	-0.3918202	0.07747506	7.48E-07
A	G	0.13	-0.391449	0.07754125	7.82E-07
T	C	0.13	-0.3697583	0.07805973	3.34E-06
C	A	0.13	-0.3916252	0.07774474	8.24E-07
G	A	0.13	-0.3913529	0.07758221	7.96E-07
T	C	0.13	-0.4000593	0.07732611	4.27E-07
G	A	0.12	-0.3652693	0.07973289	6.72E-06
C	T	0.13	-0.391397	0.07798585	8.99E-07
G	A	0.11	-0.3820027	0.08371811	7.28E-06
T	C	0.18	-0.3167136	0.06929796	7.05E-06
C	T	0.02	-0.9722131	0.204887	3.21E-06
T	A	0.3	-0.263644	0.05810803	8.16E-06
C	T	0.29	-0.2660592	0.05906191	9.40E-06
C	T	0.28	-0.2819901	0.05960683	3.43E-06
C	T	0.01	-1.04501	0.2305386	8.31E-06
C	T	0.06	-0.5027915	0.1085567	5.36E-06
T	TTGTGTGTG	0.18	-0.3348353	0.0721308	5.12E-06
C	A	0.02	-0.7666732	0.1614377	3.16E-06
G	A	0.03	-0.7264993	0.1479675	1.50E-06
C	G	0.11	0.4101197	0.08787281	4.57E-06
G	A	0.01	-1.161424	0.2497827	4.95E-06

C	G	0.08	0.4383516	0.09687882	8.61E-06
G	A	0.01	-1.084033	0.2380366	7.57E-06
A	G	0.06	-0.518812	0.1149215	9.01E-06
G	A	0.06	-0.518812	0.1149215	9.01E-06
A	G	0.06	-0.518812	0.1149215	9.01E-06
A	G	0.06	-0.518812	0.1149215	9.01E-06
G	A	0.39	-0.2544597	0.05575389	7.25E-06
G	C	0.42	-0.2580434	0.05566903	5.28E-06
AG	A	0.06	0.6026333	0.1175859	5.41E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
A	G	0.06	0.6039183	0.1163921	3.97E-07
G	C	0.06	0.6039183	0.1163921	3.97E-07
A	C	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
C	A	0.06	0.6039183	0.1163921	3.97E-07
A	G	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
A	C	0.06	0.5585458	0.1152338	2.01E-06
C	T	0.06	0.6039183	0.1163921	3.97E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
T	C	0.05	0.6245185	0.1302587	2.56E-06
T	C	0.05	0.6532446	0.1214975	1.57E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
G	C	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
T	A	0.06	0.6039183	0.1163921	3.97E-07
T	C	0.06	0.6039183	0.1163921	3.97E-07
A	G	0.06	0.6039183	0.1163921	3.97E-07
T	G	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
G	C	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
T	C	0.06	0.6042554	0.116823	4.30E-07
A	C	0.06	0.6039183	0.1163921	3.97E-07
T	C	0.06	0.6039183	0.1163921	3.97E-07
G	A	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
T	A	0.06	0.6039183	0.1163921	3.97E-07
A	T	0.06	0.6142303	0.1174981	3.29E-07
C	T	0.06	0.5995712	0.1174113	5.91E-07
A	T	0.06	0.6039183	0.1163921	3.97E-07
A	C	0.06	0.6039183	0.1163921	3.97E-07
C	A	0.06	0.5925466	0.1176803	8.32E-07
G	C	0.06	0.6039183	0.1163921	3.97E-07
T	C	0.06	0.6039183	0.1163921	3.97E-07
T	G	0.06	0.6039183	0.1163921	3.97E-07
A	G	0.06	0.6028422	0.1167433	4.48E-07
CAT	C	0.06	0.6026333	0.1175859	5.41E-07

CT	C	0.06	0.6026333	0.1175859	5.41E-07
G	A	0.05	0.6151993	0.121999	8.03E-07
C	T	0.06	0.6222456	0.1166656	1.95E-07
A	T	0.06	0.6080676	0.1167715	3.63E-07
C	T	0.06	0.6039183	0.1163921	3.97E-07
C	T	0.06	0.62348	0.1195028	3.46E-07
T	C	0.06	0.6021759	0.1181514	6.20E-07
G	A	0.05	0.6101471	0.1242402	1.49E-06
G	A	0.01	-0.4912797	0.08236138	7.50E-09
G	A	0.01	-0.5967246	0.0943559	1.05E-09
A	G	0.01	-0.54958	0.0911249	5.25E-09
A	T	0.11	-0.1651968	0.03541152	4.62E-06
G	GTTAT	0.5	0.1036458	0.01923485	1.48E-07
G	GAAGAAAGA	0.01	0.4874251	0.1015365	2.49E-06
A	G	0.09	0.1597936	0.03538688	8.97E-06
T	C	0.02	0.3750144	0.07722957	1.93E-06
G	A	0.02	0.370329	0.07464785	1.18E-06
C	T	0.02	0.3750144	0.07722957	1.93E-06
C	T	0.02	0.3750144	0.07722957	1.93E-06
T	TC	0.02	0.3954694	0.08703847	7.93E-06
A	G	0.14	0.1478448	0.03124165	3.41E-06
T	G	0.02	0.3580694	0.0788301	7.97E-06
C	CAATAATAAT	0.02	0.3508263	0.07768874	8.96E-06
G	A	0.13	0.1612795	0.02906009	6.56E-08
G	A	0.14	0.1431963	0.02844375	8.35E-07
G	A	0.14	0.1431963	0.02844375	8.35E-07
A	G	0.22	-0.1093103	0.02413101	8.42E-06
C	G	0.03	0.2713302	0.05971087	7.91E-06
C	T	0.01	0.4649009	0.0987321	3.79E-06
C	T	0.01	0.4649009	0.0987321	3.79E-06
T	A	0.03	0.272195	0.05980968	7.67E-06
GA	G	0.13	0.1421491	0.03155021	9.37E-06
G	GTGTA	0.04	0.2681603	0.05546654	2.13E-06
C	T	0.01	0.4400391	0.08857848	1.14E-06
C	T	0.01	0.529581	0.1047344	7.52E-07
C	T	0.01	0.4460614	0.09871189	8.84E-06
C	T	0.01	0.529581	0.1047344	7.52E-07
G	A	0.01	0.529581	0.1047344	7.52E-07
G	A	0.01	0.529581	0.1047344	7.52E-07
C	A	0.03	0.2813943	0.06140139	6.66E-06
TTTATTTTATTTTATTT	T	0.04	0.2743331	0.05830205	3.85E-06
CA	C	0.47	0.09504978	0.02088404	7.66E-06
T	C	0.01	0.5569873	0.1010752	8.01E-08
G	GTTT	0.02	0.3659921	0.07736139	3.43E-06
C	T	0.02	0.3798107	0.08213825	5.55E-06
G	A	0.02	0.3936616	0.08042285	1.61E-06
A	G	0.02	0.3936616	0.08042285	1.61E-06
A	T	0.01	0.4210646	0.09358282	9.63E-06
C	T	0.27	0.1132513	0.0229143	1.29E-06
T	C	0.08	0.187503	0.0392984	2.85E-06

T	C	0.02	0.342565	0.06943827	1.35E-06
A	T	0.33	-0.1035063	0.02270656	7.43E-06
C	G	0.32	-0.1032236	0.02284203	8.83E-06
C	A	0.01	0.4616451	0.09943388	5.10E-06
AAAAT	A	0.3	0.1081317	0.02308601	4.24E-06
C	CT	0.04	0.2563099	0.05346993	2.58E-06
A	T	0.27	0.1054478	0.02333333	8.83E-06
ATATTTATTTATT	A	0.46	0.09360571	0.01956045	2.67E-06
TG	T	0.41	0.09669921	0.02130186	8.07E-06
T	TG	0.48	-0.0938108	0.02044137	6.48E-06
T	C	0.48	-0.094505	0.02045662	5.65E-06
G	A	0.48	-0.0923216	0.02051688	9.61E-06
CA	C	0.48	-0.0933917	0.02043786	7.07E-06
T	C	0.48	-0.0925208	0.02044859	8.62E-06
T	C	0.48	-0.0924315	0.02042187	8.56E-06
G	C	0.48	-0.0955313	0.02042581	4.38E-06
A	G	0.47	-0.094707	0.02047157	5.49E-06
T	TTAA	0.48	-0.0924305	0.02044953	8.80E-06
G	GATAGATAC	0.36	0.1019951	0.02192326	4.89E-06
A	G	0.06	0.2120379	0.04540002	4.51E-06
C	T	0.05	0.2206758	0.04664723	3.43E-06
G	A	0.05	0.2353724	0.04707877	9.85E-07
A	G	0.05	0.2438423	0.04678126	3.54E-07
T	C	0.06	0.2207248	0.04544381	1.92E-06
G	C	0.02	0.3269493	0.07057417	5.34E-06
C	G	0.05	0.2463238	0.04919678	9.52E-07
T	C	0.02	0.2972691	0.06590248	9.16E-06
C	T	0.02	0.2972691	0.06590248	9.16E-06
G	A	0.03	0.3041587	0.06251368	1.85E-06
G	A	0.02	0.2972691	0.06590248	9.16E-06
A	T	0.02	0.2972691	0.06590248	9.16E-06
C	T	0.02	0.2972691	0.06590248	9.16E-06
T	C	0.02	0.2972691	0.06590248	9.16E-06
A	G	0.02	0.2972691	0.06590248	9.16E-06
C	T	0.01	0.4313582	0.0886093	1.83E-06
AT	A	0.06	0.204937	0.04476113	6.80E-06
C	T	0.02	0.417286	0.08692002	2.49E-06
C	CA	0.06	0.2169658	0.04554001	2.94E-06
T	C	0.07	-0.1953061	0.04252539	6.38E-06
G	A	0.06	0.2216372	0.04312503	5.05E-07
C	T	0.08	0.1974845	0.0405426	1.80E-06
A	G	0.08	0.1932642	0.0404392	2.75E-06
A	G	0.08	0.1932642	0.0404392	2.75E-06
C	CAAATT	0.08	0.1932642	0.0404392	2.75E-06
G	C	0.08	0.1932642	0.0404392	2.75E-06
T	C	0.08	0.1932642	0.0404392	2.75E-06
A	G	0.07	0.1956446	0.04317375	8.36E-06
A	G	0.09	0.1776523	0.03720406	2.80E-06
A	G	0.09	0.1805925	0.03664969	1.38E-06
C	A	0.08	0.198592	0.03919826	7.17E-07

G	A	0.1	0.174486	0.0354318	1.40E-06
G	C	0.1	0.1719371	0.03582285	2.50E-06
A	T	0.09	0.1736532	0.03750432	5.40E-06
A	G	0.09	0.1736532	0.03750432	5.40E-06
A	G	0.09	0.1764802	0.03758693	4.03E-06
T	C	0.09	0.1736532	0.03750432	5.40E-06
G	A	0.09	0.1762204	0.03759687	4.18E-06
A	G	0.09	0.1736532	0.03750432	5.40E-06
G	A	0.1	0.1595966	0.03423551	4.69E-06
A	T	0.09	0.1736532	0.03750432	5.40E-06
G	A	0.1	0.1595966	0.03423551	4.69E-06
T	C	0.09	0.1736532	0.03750432	5.40E-06
C	T	0.09	0.1736532	0.03750432	5.40E-06
T	C	0.09	0.1736532	0.03750432	5.40E-06
G	A	0.09	0.1736532	0.03750432	5.40E-06
C	T	0.09	0.1767466	0.03758598	3.90E-06
G	A	0.09	0.1736532	0.03750432	5.40E-06
A	T	0.1	0.1676512	0.03546967	3.50E-06
C	T	0.09	0.1825745	0.03809113	2.58E-06
C	T	0.09	0.1736532	0.03750432	5.40E-06
T	TG	0.09	0.1765356	0.03758414	4.00E-06
C	G	0.1	0.1595966	0.03423551	4.69E-06
C	G	0.09	0.1736532	0.03750432	5.40E-06
T	C	0.1	0.1595966	0.03423551	4.69E-06
G	A	0.09	0.1736532	0.03750432	5.40E-06
T	G	0.08	0.1802677	0.03867031	4.69E-06
A	G	0.09	0.1736532	0.03750432	5.40E-06
A	AAAAAT	0.09	0.1746803	0.03854153	8.33E-06
C	T	0.09	0.1765872	0.03760245	4.01E-06
T	C	0.09	0.1736532	0.03750432	5.40E-06
A	G	0.09	0.1736532	0.03750432	5.40E-06
G	C	0.09	0.1770304	0.03757388	3.74E-06
C	T	0.09	0.1736532	0.03750432	5.40E-06
CAATGT	C	0.09	0.1765356	0.03758414	4.00E-06
G	T	0.09	0.1736532	0.03750432	5.40E-06
GTTTCA	G	0.09	0.1765356	0.03758414	4.00E-06
C	T	0.09	0.1736532	0.03750432	5.40E-06
C	T	0.14	0.1375685	0.03044647	8.86E-06
C	A	0.09	0.1736532	0.03750432	5.40E-06
T	A	0.07	0.2130181	0.04387678	1.94E-06
C	A	0.06	0.2147625	0.04493111	2.74E-06
T	C	0.14	0.1375685	0.03044647	8.86E-06
A	T	0.13	0.1430158	0.03180037	9.72E-06
A	T	0.14	0.1394357	0.03046422	6.84E-06
G	A	0.14	0.1470669	0.0309088	3.03E-06
A	G	0.14	0.1375685	0.03044647	8.86E-06
G	A	0.09	0.1736532	0.03750432	5.40E-06
G	A	0.09	0.1706755	0.03771923	8.61E-06
A	T	0.09	0.1733284	0.03781517	6.64E-06
T	A	0.08	0.1773756	0.03872988	6.76E-06

T	C	0.08	0.181401	0.03881579	4.45E-06
TTTATCTCA	T	0.08	0.1851172	0.04005371	5.61E-06
G	C	0.01	0.4656345	0.09924649	4.09E-06
C	T	0.02	0.4047864	0.08741548	5.39E-06
A	AG	0.01	0.4170602	0.09160556	7.61E-06
G	A	0.01	0.4170602	0.09160556	7.61E-06
G	A	0.09	0.1803568	0.03678956	1.56E-06
A	G	0.01	0.4476506	0.09742943	6.33E-06
G	C	0.05	0.230524	0.05050371	7.23E-06
AGAAAAGAAGAAAAGA	G	0.01	0.41863	0.08910662	3.98E-06
T	A	0.14	0.1440873	0.03033421	3.14E-06
G	A	0.01	0.476174	0.1048688	8.03E-06
C	G	0.01	0.4704952	0.1015635	5.34E-06
T	A	0.01	0.4704952	0.1015635	5.34E-06
A	G	0.01	0.4704952	0.1015635	5.34E-06
G	A	0.01	0.4704952	0.1015635	5.34E-06
C	A	0.01	0.4704952	0.1015635	5.34E-06
G	A	0.01	0.4704952	0.1015635	5.34E-06
T	C	0.01	0.4526868	0.09582099	3.53E-06
T	A	0.01	0.4526868	0.09582099	3.53E-06
C	T	0.01	0.4526868	0.09582099	3.53E-06
A	AT	0.01	0.4788323	0.09104728	2.82E-07
G	A	0.06	0.2094892	0.04586989	7.15E-06
G	A	0.01	0.5780471	0.09785804	1.02E-08
C	A	0.01	0.4242924	0.09116262	4.85E-06
AT	A	0.05	0.2190801	0.04806897	7.45E-06
G	C	0.02	0.3523822	0.07665945	6.27E-06
A	T	0.03	0.3445457	0.06771233	6.45E-07
CAA	C	0.02	0.3179552	0.06937042	6.65E-06
C	T	0.01	0.418744	0.08882478	3.70E-06
T	C	0.02	0.3806626	0.07345051	4.09E-07
C	T	0.01	0.4516105	0.09884203	7.09E-06
G	A	0.02	0.3455278	0.07484881	5.74E-06
G	A	0.03	0.311498	0.05895721	2.50E-07
G	C	0.03	0.311498	0.05895721	2.50E-07
T	G	0.01	0.5199043	0.09822898	2.39E-07
C	CT	0.02	0.3207803	0.0672451	2.86E-06
C	T	0.03	0.308322	0.06648084	5.22E-06
G	A	0.01	0.3950356	0.08759792	9.20E-06
A	ATT	0.01	0.4676295	0.09837681	3.09E-06
C	T	0.47	-0.0957537	0.02063687	5.17E-06
T	TTGTG	0.01	0.4578247	0.101833	9.78E-06
T	TTTTC	0.01	0.4505046	0.09880754	7.39E-06
T	G	0.01	0.4546472	0.09599116	3.34E-06
A	G	0.01	0.4692252	0.1017436	5.86E-06
T	C	0.02	0.3787874	0.0833802	7.95E-06
C	T	0.02	0.3688376	0.08027262	6.32E-06
A	C	0.06	0.2092793	0.04655314	9.79E-06
C	T	0.09	0.1735321	0.03565017	1.83E-06
C	T	0.09	0.1735321	0.03565017	1.83E-06

G	A	0.09	0.1735321	0.03565017	1.83E-06
C	T	0.02	0.3809132	0.08337836	7.10E-06
A	C	0.04	0.2645808	0.05544843	2.85E-06
C	A	0.02	0.4056053	0.08210855	1.31E-06
T	C	0.03	0.2898424	0.0626293	5.45E-06
C	A	0.03	0.2898424	0.0626293	5.45E-06
G	A	0.03	0.2880422	0.06050272	2.99E-06
T	C	0.03	0.2898738	0.05925099	1.63E-06
T	C	0.03	0.2898738	0.05925099	1.63E-06
C	T	0.03	0.2898738	0.05925099	1.63E-06
G	T	0.03	0.2898738	0.05925099	1.63E-06
G	A	0.03	0.2898738	0.05925099	1.63E-06
A	T	0.03	0.2898738	0.05925099	1.63E-06
C	T	0.03	0.2898738	0.05925099	1.63E-06
C	T	0.03	0.2898738	0.05925099	1.63E-06
T	C	0.03	0.2898738	0.05925099	1.63E-06
T	C	0.03	0.2898738	0.05925099	1.63E-06
CAA	C	0.03	0.2355644	0.05238821	9.75E-06
A	G	0.06	0.2099002	0.04353179	2.26E-06
T	TA	0.02	0.3537489	0.07253507	1.75E-06
C	T	0.06	0.208937	0.04395273	3.09E-06
C	T	0.01	0.5397176	0.1010229	1.86E-07
C	T	0.01	0.5397176	0.1010229	1.86E-07
G	A	0.01	0.498323	0.09824649	6.97E-07
G	A	0.01	0.5063828	0.09547216	2.26E-07
T	TCA	0.01	0.5699732	0.09507199	6.33E-09
C	A	0.01	0.5278173	0.09276755	3.19E-08
C	T	0.01	0.5278173	0.09276755	3.19E-08
G	A	0.03	0.7398265	0.1607712	6.34E-06
G	T	0.01	-1.150619	0.2357615	1.80E-06
A	AGTGT	0.06	0.5380529	0.1124941	2.81E-06
TTTGCCATGTTGCCCA	G	0.05	0.5784324	0.1257234	6.37E-06
T	G	0.08	0.4841706	0.1008725	2.61E-06
T	A	0.02	0.8433525	0.181402	5.14E-06
A	T	0.12	0.3863958	0.08532393	8.75E-06
G	C	0.12	0.3920294	0.08517885	6.32E-06
A	C	0.14	0.3545542	0.07717789	6.56E-06
A	G	0.14	0.3525153	0.07644984	6.09E-06
C	T	0.14	0.3545542	0.07717789	6.56E-06
AAG	A	0.14	0.3493683	0.0773059	9.11E-06
A	T	0.14	0.3460591	0.07649314	8.92E-06
A	AT	0.12	0.4027987	0.08596529	4.37E-06
AAAGAAAG	A	0.03	0.6687367	0.1479613	9.09E-06
G	T	0.46	-0.2523562	0.05381458	4.29E-06
C	T	0.46	-0.2509709	0.05394817	5.07E-06
T	C	0.49	-0.2526037	0.05520307	7.11E-06
CAG	C	0.01	1.118209	0.247155	8.91E-06
T	C	0.17	0.3432979	0.07230394	3.30E-06
A	C	0.16	0.3411921	0.07291054	4.49E-06
T	C	0.16	0.3443048	0.07281553	3.60E-06

G	A	0.16	0.3353913	0.0725491	5.77E-06
C	CT	0.15	0.3404197	0.07447935	7.27E-06
G	GT	0.06	0.5330458	0.114132	4.67E-06
G	A	0.02	-1.000479	0.2124053	3.91E-06
ACTTCCTTC	A	0.12	0.4020672	0.08686502	5.63E-06
T	C	0.42	0.2528584	0.05285648	2.80E-06
TA	T	0.44	0.2550358	0.05450591	4.50E-06
AGT	A	0.12	0.408719	0.08718591	4.32E-06
G	T	0.18	-0.3145498	0.06900217	7.67E-06
A	G	0.01	-1.03282	0.222717	5.42E-06
A	T	0.23	0.2994786	0.06090807	1.52E-06
T	C	0.03	0.809404	0.1666118	2.00E-06
C	T	0.01	1.041116	0.217696	2.82E-06
C	A	0.19	0.3085812	0.068198	8.89E-06
G	C	0.03	-0.6736054	0.1480921	8.01E-06
G	A	0.35	0.2387357	0.05154268	5.55E-06
G	A	0.02	-1.01015	0.2228727	8.60E-06
G	A	0.45	0.2386846	0.05292372	9.48E-06
TTGGTGTG	T	0.27	-0.2658599	0.05770741	6.19E-06
A	AT	0.01	1.199752	0.2658349	9.35E-06
T	C	0.11	0.4073398	0.08930361	7.58E-06
G	A	0.02	0.7515949	0.1217659	2.99E-09
T	A	0.01	0.8815712	0.1465861	6.94E-09
T	G	0.49	-0.112995	0.02410922	4.19E-06
A	G	0.48	-0.1107233	0.02421591	6.98E-06
A	G	0.05	0.256485	0.05571634	6.08E-06
G	A	0.06	0.251472	0.05078276	1.23E-06
C	T	0.03	0.3451353	0.0765614	9.27E-06
C	T	0.03	0.3451353	0.0765614	9.27E-06
C	T	0.03	0.3451353	0.0765614	9.27E-06
C	T	0.03	0.3451353	0.0765614	9.27E-06
C	T	0.03	0.3451353	0.0765614	9.27E-06
A	G	0.05	0.2731073	0.05833268	4.28E-06
C	T	0.03	0.340385	0.07481335	7.71E-06
G	C	0.03	0.340385	0.07481335	7.71E-06
A	AGCATTGTGG	0.05	0.2982896	0.05719632	3.49E-07
T	A	0.01	0.522268	0.1160144	9.53E-06
C	T	0.47	-0.1086344	0.02415549	9.72E-06
G	A	0.47	-0.1093278	0.02421792	9.02E-06
A	G	0.05	0.2540425	0.05445344	4.61E-06
A	G	0.05	0.2575011	0.05411245	3.02E-06
T	C	0.28	0.1330553	0.02662269	9.94E-07
G	A	0.27	0.1273633	0.0267307	2.94E-06
C	T	0.07	0.2125334	0.04584984	5.27E-06
C	A	0.07	0.2125334	0.04584984	5.27E-06
G	GTGTGTA	0.01	0.5772988	0.1201385	2.44E-06
T	C	0.09	0.1892662	0.04170811	8.13E-06
C	G	0.16	-0.1594271	0.03366231	3.35E-06
T	C	0.15	-0.1562388	0.0337498	5.42E-06
C	T	0.14	-0.1593561	0.03467327	6.29E-06

G	A	0.15	-0.1577481	0.03456418	7.25E-06
T	G	0.18	-0.1476516	0.03153953	4.29E-06
G	A	0.16	-0.1608488	0.03362872	2.70E-06
G	GT	0.16	-0.1637776	0.03355573	1.72E-06
T	TTTTA	0.04	0.3089552	0.06166002	9.35E-07
AAC	A	0.11	0.1874968	0.04076406	6.19E-06
A	T	0.01	0.5041346	0.1082135	4.75E-06
C	T	0.1	0.1766573	0.0381956	5.52E-06
C	G	0.1	0.1799974	0.03830891	3.97E-06
C	T	0.1	0.1773203	0.03820895	5.15E-06
A	G	0.1	0.1850324	0.03862904	2.62E-06
G	T	0.11	0.1806187	0.03830413	3.68E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
A	G	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.12	0.168412	0.03736963	9.33E-06
C	T	0.1	0.1894895	0.03940981	2.41E-06
T	C	0.12	0.168412	0.03736963	9.33E-06
A	T	0.12	0.168412	0.03736963	9.33E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
C	T	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
G	A	0.1	0.1767284	0.03820887	5.52E-06
C	T	0.1	0.1771448	0.03827453	5.44E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
G	T	0.1	0.1894895	0.03940981	2.41E-06
G	A	0.1	0.1894895	0.03940981	2.41E-06
G	A	0.1	0.1767284	0.03820887	5.52E-06
C	T	0.1	0.1850324	0.03862904	2.62E-06
G	GCAGCCC	0.12	0.1640033	0.03587412	7.00E-06
C	T	0.1	0.1765929	0.03823913	5.70E-06
C	T	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
T	C	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.11	0.1708835	0.03788016	9.14E-06
C	T	0.1	0.1894895	0.03940981	2.41E-06
T	G	0.12	0.1800667	0.0365098	1.35E-06
A	G	0.11	0.1775646	0.03746078	3.29E-06
A	AT	0.11	0.166028	0.03629256	6.91E-06
G	T	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.11	0.1683551	0.03667707	6.45E-06
T	C	0.12	0.1743289	0.03694419	3.62E-06
C	T	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.1	0.1850324	0.03862904	2.62E-06
C	T	0.1	0.1850324	0.03862904	2.62E-06
A	C	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.1	0.1850324	0.03862904	2.62E-06
A	AT	0.11	0.1752108	0.03742646	4.29E-06
G	C	0.1	0.1791272	0.03829151	4.36E-06
A	G	0.11	0.1865252	0.03750439	1.11E-06

T	G	0.13	0.16565	0.0353884	4.30E-06
G	A	0.11	0.1785792	0.03713928	2.41E-06
C	T	0.1	0.1863971	0.03846011	2.02E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.12	0.168412	0.03736963	9.33E-06
A	G	0.11	0.1731169	0.0370982	4.59E-06
C	T	0.1	0.1848206	0.03954054	4.43E-06
T	C	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.1	0.1761092	0.03823554	6.02E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
A	G	0.12	0.168412	0.03736963	9.33E-06
C	G	0.1	0.1794202	0.03827577	4.17E-06
C	A	0.1	0.1850324	0.03862904	2.62E-06
G	A	0.11	0.1768068	0.03746837	3.62E-06
A	T	0.1	0.1910242	0.03813297	9.40E-07
CCTT	C	0.11	0.1675597	0.03707888	8.83E-06
G	T	0.1	0.1850324	0.03862904	2.62E-06
C	G	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.12	0.168412	0.03736963	9.33E-06
C	G	0.1	0.1765929	0.03823913	5.70E-06
G	T	0.12	0.1634072	0.03615937	8.83E-06
C	T	0.12	0.1634072	0.03615937	8.83E-06
C	T	0.12	0.166058	0.03640208	7.32E-06
G	A	0.06	0.2350044	0.04714002	1.05E-06
C	T	0.12	0.1760615	0.036889	2.83E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
T	C	0.1	0.1766573	0.0381956	5.52E-06
T	C	0.12	0.168412	0.03736963	9.33E-06
C	T	0.1	0.1909236	0.03876049	1.40E-06
GC	G	0.11	0.1678099	0.03707303	8.55E-06
C	T	0.1	0.1894895	0.03940981	2.41E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
A	G	0.1	0.1894895	0.03940981	2.41E-06
C	T	0.1	0.1867687	0.03827346	1.73E-06
T	C	0.1	0.1850324	0.03862904	2.62E-06
C	A	0.1	0.1793231	0.03829315	4.26E-06
A	AG	0.11	0.1675597	0.03707888	8.83E-06
G	A	0.1	0.1850324	0.03862904	2.62E-06
T	A	0.1	0.1929531	0.03948025	1.67E-06
G	A	0.11	0.1711984	0.03791229	8.97E-06
T	C	0.11	0.1719029	0.03790552	8.23E-06
T	G	0.12	0.168412	0.03736963	9.33E-06
C	T	0.12	0.168412	0.03736963	9.33E-06
C	T	0.1	0.1765929	0.03823913	5.70E-06
A	G	0.1	0.1765929	0.03823913	5.70E-06
G	C	0.1	0.1766502	0.03823897	5.66E-06
G	C	0.12	0.168412	0.03736963	9.33E-06
C	T	0.1	0.1832103	0.03995222	6.58E-06
G	T	0.1	0.1832057	0.03993951	6.54E-06
C	A	0.1	0.1812537	0.03946012	6.36E-06

C	T	0.12	0.1756656	0.03686707	2.94E-06
G	T	0.08	0.2114511	0.04390317	2.32E-06
G	T	0.1	0.1843776	0.03953312	4.64E-06
A	G	0.1	0.1843776	0.03953312	4.64E-06
T	G	0.1	0.1879434	0.04034168	4.75E-06
A	G	0.26	0.1274655	0.02622528	1.89E-06
T	C	0.29	0.1425124	0.02507078	3.28E-08
G	C	0.03	0.3186904	0.07020155	8.07E-06
G	A	0.03	0.3230504	0.07060842	6.89E-06
G	A	0.02	0.3888664	0.08431498	5.85E-06
G	A	0.02	0.4522795	0.09752954	5.23E-06
A	G	0.02	0.4347813	0.09373315	5.20E-06
C	A	0.02	0.4347813	0.09373315	5.20E-06
C	T	0.01	0.4742991	0.1019535	4.89E-06
GCA	G	0.21	-0.1499795	0.03323011	9.06E-06
G	GAT	0.04	0.2694169	0.0587335	6.54E-06
G	A	0.17	0.1407419	0.03117129	8.99E-06
G	T	0.17	0.1407419	0.03117129	8.99E-06
C	T	0.17	0.1421582	0.03118495	7.42E-06
G	C	0.17	0.1407419	0.03117129	8.99E-06
C	T	0.16	0.145832	0.03135606	4.92E-06
C	A	0.01	0.591215	0.1176658	8.75E-07
T	C	0.02	0.349157	0.07698263	8.22E-06
C	G	0.5	-0.1095001	0.02397148	7.12E-06
G	A	0.34	0.1179843	0.0253868	5.00E-06
C	A	0.29	0.1203241	0.0266482	8.98E-06
G	T	0.33	0.1171987	0.0257994	7.96E-06
A	G	0.33	0.1197186	0.02572606	4.86E-06
T	G	0.49	0.1094385	0.02390002	6.78E-06
C	T	0.01	0.4941894	0.1076448	6.43E-06
T	A	0.01	0.5023829	0.1084788	5.37E-06
C	T	0.01	0.5281284	0.1148753	6.25E-06
T	C	0.01	0.5281284	0.1148753	6.25E-06
A	C	0.01	0.4778723	0.1019321	4.16E-06
G	A	0.02	0.4537709	0.09726112	4.61E-06
G	A	0.06	0.2446629	0.05243745	4.60E-06
T	C	0.1	0.27302	0.04532454	6.67E-09
C	A	0.02	-0.5419642	0.09061793	8.36E-09
T	A	0.01	-0.5612797	0.1203728	4.66E-06
C	T	0.49	-0.1159247	0.02506242	5.51E-06
C	CTGTGTG	0.03	0.3490423	0.07685396	8.00E-06
G	T	0.04	-0.3126305	0.06614536	3.50E-06
TG	T	0.08	-0.2249637	0.04851233	5.23E-06
G	A	0.31	0.1272762	0.02774826	6.55E-06
C	T	0.31	0.1276556	0.0278188	6.49E-06
A	ACCACT	0.15	-0.1861623	0.03892888	2.71E-06
A	TACATACATACATA	0.05	-0.2878988	0.06213767	5.32E-06
C	T	0.05	0.2772461	0.06134937	8.83E-06
A	G	0.05	0.2660385	0.05776828	6.03E-06
T	C	0.24	0.1450704	0.03135818	5.49E-06

T	A	0.33	0.1335479	0.02834526	3.74E-06
G	C	0.33	0.1393682	0.02826777	1.37E-06
G	A	0.33	0.1393053	0.02829002	1.41E-06
G	T	0.33	0.1342694	0.02842331	3.54E-06
A	T	0.39	0.1343721	0.02753699	1.73E-06
C	T	0.33	0.1374151	0.02828323	1.91E-06
G	A	0.33	0.1404583	0.02815249	1.03E-06
G	C	0.33	0.1383286	0.02821107	1.55E-06
A	G	0.34	0.1441981	0.0281438	5.45E-07
C	A	0.33	0.1404144	0.02831788	1.20E-06
A	G	0.34	0.1416821	0.02816494	8.51E-07
T	A	0.33	0.1396047	0.02821762	1.26E-06
T	C	0.32	0.1317596	0.02878081	6.81E-06
G	A	0.34	0.1375756	0.02836674	1.99E-06
A	G	0.38	0.1365328	0.02766668	1.34E-06
A	G	0.34	0.1406524	0.02841836	1.25E-06
A	G	0.34	0.1363513	0.02838639	2.46E-06
A	G	0.39	0.1315492	0.0276094	2.94E-06
C	G	0.39	0.1384373	0.02751813	8.50E-07
T	C	0.38	0.1365328	0.02766668	1.34E-06
G	A	0.39	0.1293439	0.02760076	4.20E-06
A	C	0.39	0.1379209	0.02768839	1.07E-06
G	A	0.39	0.1311441	0.02770928	3.40E-06
G	A	0.39	0.1364511	0.02760036	1.28E-06
G	A	0.39	0.1373227	0.02747872	9.95E-07
G	C	0.24	0.1404016	0.03123601	9.82E-06
T	C	0.45	0.1175105	0.02543722	5.66E-06
T	C	0.42	-0.1294097	0.02727411	3.22E-06
T	C	0.41	-0.1303572	0.02744313	3.14E-06
C	T	0.38	-0.1335161	0.02741418	1.81E-06
C	T	0.41	-0.1281329	0.02751543	4.79E-06
A	AATTT	0.02	-0.4222134	0.09190041	6.34E-06
G	C	0.23	-0.146944	0.03172881	5.37E-06
G	GCGTGTGCA	0.01	0.4477016	0.09609122	4.74E-06
ACTCT	A	0.49	-0.1152641	0.02399782	2.46E-06
A	T	0.02	0.3527012	0.07704626	6.82E-06
G	C	0.01	0.4898908	0.1031125	3.13E-06
G	C	0.01	0.4898908	0.1031125	3.13E-06
C	T	0.01	0.4898908	0.1031125	3.13E-06
A	AACACAC	0.03	0.2963561	0.06218556	2.93E-06
CAT	C	0.21	0.1200906	0.02638233	7.64E-06
C	T	0.21	0.1272913	0.0258632	1.42E-06
C	G	0.36	0.1081411	0.02239036	2.18E-06
C	T	0.36	0.1025428	0.02232994	6.39E-06
T	C	0.37	0.1049185	0.02219214	3.48E-06
A	G	0.36	0.1034438	0.02205929	4.14E-06
G	A	0.36	0.1117473	0.02236594	1.00E-06
T	C	0.34	0.1117838	0.02253048	1.18E-06
G	A	0.34	0.1110451	0.0226349	1.53E-06
T	C	0.36	0.1063524	0.02242667	3.26E-06

C	T	0.35	0.1121879	0.0224955	1.05E-06
A	C	0.36	0.1098834	0.02247222	1.65E-06
A	T	0.36	0.106022	0.02230561	3.10E-06
G	A	0.36	0.1016078	0.02233756	7.75E-06
A	G	0.36	0.109945	0.02242075	1.55E-06
A	G	0.36	0.1080203	0.02240024	2.26E-06
C	T	0.35	0.1104254	0.02255147	1.60E-06
C	T	0.35	0.1090153	0.02246956	1.97E-06
G	A	0.36	0.1108571	0.02245035	1.32E-06
T	C	0.36	0.1123857	0.022342	8.52E-07
T	C	0.36	0.1083754	0.02249104	2.29E-06
T	C	0.36	0.1101475	0.02232314	1.34E-06
C	A	0.36	0.1123701	0.0223374	8.50E-07
A	C	0.36	0.1136565	0.0223877	6.82E-07
A	C	0.36	0.1083754	0.02249104	2.29E-06
C	T	0.35	0.1110458	0.02253955	1.39E-06
T	C	0.36	0.1117473	0.02236594	1.00E-06
C	G	0.35	0.1157059	0.02245596	4.74E-07
G	C	0.36	0.1073163	0.0225168	2.92E-06
GT	G	0.36	0.1084951	0.02240992	2.07E-06
T	A	0.36	0.1066776	0.0224557	3.13E-06
T	A	0.36	0.1104223	0.0224948	1.51E-06
T	C	0.36	0.1121119	0.02226267	8.29E-07
C	T	0.36	0.1091667	0.02244875	1.87E-06
A	T	0.36	0.1111057	0.02231607	1.09E-06
C	T	0.36	0.1091572	0.02244239	1.86E-06
A	G	0.36	0.1130292	0.02240951	7.99E-07
A	G	0.36	0.1048503	0.02241766	4.37E-06
T	C	0.36	0.1111236	0.02238805	1.17E-06
G	A	0.36	0.1061904	0.02246804	3.50E-06
G	GT	0.36	0.1083754	0.02249104	2.29E-06
C	A	0.36	0.1138055	0.0224164	6.82E-07
G	T	0.36	0.1120044	0.02238725	9.69E-07
G	T	0.34	0.1124099	0.02267383	1.20E-06
T	C	0.36	0.1016257	0.02234012	7.74E-06
A	G	0.35	0.1097053	0.02253514	1.82E-06
T	G	0.35	0.1139956	0.02256224	7.66E-07
A	C	0.35	0.1159741	0.02248648	4.62E-07
T	A	0.36	0.1123695	0.02241426	9.23E-07
T	C	0.36	0.1136136	0.02247951	7.60E-07
A	G	0.36	0.1140358	0.02246429	6.84E-07
C	T	0.35	0.1097053	0.02253514	1.82E-06
G	A	0.36	0.1123862	0.02252716	1.04E-06
A	T	0.35	0.110167	0.02252083	1.63E-06
C	T	0.35	0.1094008	0.02252902	1.93E-06
G	A	0.35	0.1094008	0.02252902	1.93E-06
G	A	0.36	0.1123695	0.02241426	9.23E-07
C	T	0.36	0.1081097	0.02249182	2.42E-06
G	C	0.36	0.1077281	0.02249716	2.64E-06
G	T	0.36	0.1140554	0.02244565	6.67E-07

C	G	0.36	0.1129653	0.02229801	7.18E-07
C	G	0.36	0.1077281	0.02249716	2.64E-06
G	C	0.35	0.1094008	0.02252902	1.93E-06
T	C	0.36	0.1078018	0.02247278	2.53E-06
T	G	0.35	0.1113025	0.02257045	1.36E-06
C	T	0.36	0.1059306	0.02247253	3.70E-06
T	C	0.36	0.1121321	0.02242342	9.80E-07
A	C	0.35	0.1159741	0.02248648	4.62E-07
C	T	0.36	0.1142381	0.02245173	6.46E-07
G	A	0.36	0.1121321	0.02242342	9.80E-07
A	G	0.35	0.1094008	0.02252902	1.93E-06
GA	G	0.36	0.1133603	0.02248671	8.08E-07
A	G	0.36	0.1134281	0.02247313	7.85E-07
G	A	0.16	0.1473842	0.03045669	2.09E-06
G	A	0.16	0.1361941	0.02956256	5.99E-06
C	CTGTG	0.05	0.2383244	0.04920219	2.04E-06
C	CGAGAGAGAGAGAG/	0.03	0.2819385	0.05974958	3.62E-06
G	A	0.25	0.1157029	0.02557593	8.65E-06
A	C	0.25	0.1157029	0.02557593	8.65E-06
C	G	0.25	0.1157029	0.02557593	8.65E-06
A	C	0.24	0.1188147	0.02566548	5.42E-06
CA	C	0.03	0.2860322	0.06361021	9.74E-06
A	T	0.06	0.2157416	0.04533129	3.01E-06
A	C	0.07	0.1881264	0.04144827	8.10E-06
A	AT	0.02	0.3910492	0.0865233	8.81E-06
A	G	0.01	0.4750608	0.105604	9.66E-06
C	T	0.01	0.469763	0.09778291	2.45E-06
T	TA	0.06	0.2122878	0.04687578	8.46E-06
G	A	0.03	0.3399327	0.07047812	2.25E-06
C	TCCTTCCTTCCTTCCTT	0.04	0.2927045	0.0576728	6.87E-07
A	T	0.01	0.4667859	0.09992475	4.49E-06
T	A	0.02	0.4073618	0.08657122	3.85E-06
C	T	0.02	0.374037	0.08205703	7.43E-06
A	C	0.03	0.3043098	0.0654783	5.00E-06
A	G	0.06	0.1996367	0.04348392	6.43E-06
A	T	0.01	0.3804867	0.08301133	6.64E-06
A	C	0.01	0.5633723	0.1081436	3.59E-07
C	G	0.01	0.4839735	0.1028405	3.84E-06
T	C	0.01	0.5633723	0.1081436	3.59E-07
AGTGTGTGT	A	0.02	0.3667729	0.07920491	5.39E-06
C	T	0.07	-0.1940001	0.04289085	8.68E-06
G	A	0.26	0.1144657	0.02504552	7.05E-06
C	A	0.04	0.3052942	0.06027571	7.22E-07
C	CA	0.11	0.1589034	0.03530009	9.54E-06
A	G	0.11	0.1605793	0.0357341	9.87E-06
G	A	0.11	0.1670501	0.03584489	4.72E-06
G	A	0.1	0.1737763	0.03606076	2.29E-06
TTATC	T	0.09	0.1850535	0.04042516	6.82E-06
C	G	0.06	0.2183364	0.04710405	5.28E-06
A	G	0.06	0.2183364	0.04710405	5.28E-06

A	T	0.05	0.2233079	0.04733218	3.64E-06
C	A	0.05	0.2233079	0.04733218	3.64E-06
C	CA	0.06	0.2183364	0.04710405	5.28E-06
A	AAT	0.05	0.2296889	0.05007746	6.55E-06
C	T	0.05	0.2153304	0.04761352	8.70E-06
G	GT	0.05	0.2223632	0.04779816	4.89E-06
A	G	0.06	0.2183364	0.04710405	5.28E-06
G	GA	0.06	0.2183364	0.04710405	5.28E-06
G	A	0.06	0.2183364	0.04710405	5.28E-06
A	T	0.06	0.2183364	0.04710405	5.28E-06
A	G	0.06	0.2183364	0.04710405	5.28E-06
T	C	0.06	0.2183364	0.04710405	5.28E-06
CAA	C	0.05	0.22078	0.04786467	5.84E-06
T	G	0.05	0.2152904	0.04761285	8.73E-06
C	T	0.05	0.2397597	0.04919406	1.78E-06
T	C	0.05	0.2152428	0.04769385	9.07E-06
T	TTTTATA	0.05	0.2152428	0.04769385	9.07E-06
T	C	0.05	0.2152428	0.04769385	9.07E-06
A	G	0.05	0.2152428	0.04769385	9.07E-06
C	T	0.05	0.2152428	0.04769385	9.07E-06
AT	A	0.05	0.2152428	0.04769385	9.07E-06
T	C	0.05	0.2152428	0.04769385	9.07E-06
A	C	0.05	0.2152428	0.04769385	9.07E-06
G	C	0.05	0.2152428	0.04769385	9.07E-06
T	C	0.05	0.2152428	0.04769385	9.07E-06
T	C	0.05	0.2152428	0.04769385	9.07E-06
ATATTCC	A	0.05	0.2152428	0.04769385	9.07E-06
C	T	0.05	0.2152428	0.04769385	9.07E-06
A	T	0.05	0.2273149	0.04819051	3.65E-06
T	C	0.05	0.2212107	0.0479713	5.87E-06
T	C	0.05	0.2212107	0.0479713	5.87E-06
AG	A	0.05	0.2212107	0.0479713	5.87E-06
G	A	0.05	0.2322541	0.04851852	2.65E-06
GGA	G	0.05	0.2212107	0.0479713	5.87E-06
T	C	0.05	0.2212107	0.0479713	5.87E-06
C	T	0.05	0.2212107	0.0479713	5.87E-06
A	G	0.05	0.2212107	0.0479713	5.87E-06
C	A	0.09	0.1737754	0.03754103	5.43E-06
G	A	0.09	0.1710101	0.03744454	7.15E-06
A	G	0.02	0.3735791	0.07637992	1.64E-06
GT	G	0.06	0.2144816	0.04556923	3.83E-06
A	T	0.01	0.5080437	0.1003765	7.34E-07
C	A	0.01	0.4535624	0.09202613	1.38E-06
GA	G	0.01	0.4719048	0.0899021	2.96E-07
AC	A	0.01	0.4719048	0.0899021	2.96E-07
T	G	0.01	0.4719048	0.0899021	2.96E-07
C	G	0.02	0.35497	0.0758934	4.37E-06
C	T	0.03	0.3037917	0.06166361	1.39E-06
CT	C	0.03	0.3557588	0.06825657	3.55E-07
C	T	0.03	0.3557588	0.06825657	3.55E-07

A	C	0.03	0.3551407	0.06812494	3.53E-07
T	C	0.03	0.3258903	0.06656013	1.60E-06
A	G	0.03	0.3108934	0.06577173	3.49E-06
ATG	A	0.02	0.4242061	0.09019881	3.89E-06
TTTTTTG	T	0.1	0.1547995	0.03288444	3.81E-06
T	C	0.02	0.3842539	0.0846027	7.99E-06
CCCTCCT	C	0.01	0.4344241	0.0955586	7.84E-06
A	G	0.01	0.4552259	0.09273175	1.51E-06
A	G	0.02	0.4005636	0.08872997	9.01E-06
G	A	0.29	-0.1144075	0.02343682	1.71E-06
C	T	0.03	0.320865	0.06716614	2.78E-06
G	A	0.01	0.4177266	0.09278587	9.52E-06
G	A	0.01	0.4177266	0.09278587	9.52E-06
G	A	0.01	0.4177266	0.09278587	9.52E-06
GA	G	0.41	-0.0999123	0.0203934	1.58E-06
G	A	0.02	0.3981486	0.0842291	3.49E-06
C	T	0.02	0.4197933	0.09011013	4.75E-06
T	G	0.01	0.526515	0.1106931	3.05E-06
C	T	0.23	0.1249914	0.02690989	5.06E-06
A	G	0.23	0.125417	0.0266692	3.90E-06
A	G	0.23	0.1247791	0.0266735	4.35E-06
A	G	0.23	0.1265074	0.02666043	3.21E-06
T	C	0.23	0.1266832	0.02666349	3.13E-06
A	C	0.23	0.1213448	0.02693572	9.39E-06
G	C	0.23	0.122008	0.02692736	8.38E-06
TCTTTCTTTCTTTCTTT	T	0.01	0.5004509	0.1030621	1.93E-06
G	A	0.01	0.5338549	0.1116172	2.70E-06
TCTGA	T	0.01	0.5338549	0.1116172	2.70E-06
G	GT	0.02	0.3518238	0.07444891	3.51E-06
C	T	0.08	0.1915408	0.04112742	4.78E-06
G	A	0.02	0.3450456	0.07137863	2.14E-06
TA	T	0.01	0.5093473	0.1065844	2.75E-06
TCTTCTTCTTCTTCTT	C	0.02	0.4378737	0.08567188	5.79E-07
AC	A	0.01	0.4339202	0.09652816	9.80E-06
G	A	0.01	0.4339202	0.09652816	9.80E-06
TC	T	0.01	0.4339202	0.09652816	9.80E-06
C	A	0.02	0.3683784	0.08128799	8.35E-06
G	A	0.02	0.3683784	0.08128799	8.35E-06
A	C	0.01	0.4923401	0.1040612	3.42E-06
A	C	0.02	0.3598559	0.07973063	9.05E-06
G	T	0.01	0.5025086	0.09827315	5.72E-07
TGG	T	0.1	-0.1707696	0.03717872	6.37E-06
C	CA	0.13	0.1460082	0.02987086	1.66E-06
A	AACACAC	0.09	0.2043122	0.03846406	2.17E-07
C	T	0.02	0.3861684	0.08316803	5.09E-06
C	CTATATATA	0.01	0.4379495	0.09257268	3.43E-06
G	A	0.01	0.4216637	0.09317946	8.59E-06
G	A	0.03	0.3273169	0.06753811	2.02E-06
A	G	0.03	0.3272616	0.06922195	3.48E-06
C	A	0.05	0.2253576	0.04989752	8.94E-06

G	A	0.04	0.2756086	0.05956102	5.47E-06
A	G	0.01	0.4828309	0.1049736	6.19E-06
C	T	0.21	-0.1245593	0.02748442	8.34E-06
C	T	0.21	-0.1245593	0.02748442	8.34E-06
C	G	0.01	-0.5635971	0.09561611	1.09E-08
G	T	0.35	-0.1087389	0.02371943	6.62E-06
A	AT	0.34	-0.1104563	0.02372752	4.83E-06
AAAAAG	A	0.09	-0.1834352	0.04040664	8.06E-06
G	A	0.03	-0.3084919	0.06730795	6.65E-06
AT	A	0.2	-0.1330861	0.02705467	1.44E-06
C	T	0.02	-0.3954039	0.08502373	4.93E-06
C	T	0.01	-0.4798631	0.1063212	9.06E-06
CAG	C	0.04	-0.2510338	0.05470338	6.49E-06
A	C	0.02	-0.4111138	0.09059961	8.14E-06
TA	T	0.02	-0.3837348	0.08245868	4.86E-06
C	T	0.19	-0.123406	0.02735725	9.15E-06
C	T	0.02	-0.3776601	0.08003283	3.62E-06
A	G	0.34	0.1064233	0.02344756	8.10E-06
T	C	0.02	-0.4217887	0.09026158	4.46E-06
A	G	0.01	-0.443315	0.09729951	7.50E-06
A	G	0.01	-0.4267088	0.09246276	5.78E-06
G	A	0.01	-0.5273385	0.1093514	2.25E-06
G	A	0.02	-0.3550364	0.07756903	6.84E-06
C	T	0.02	-0.3550364	0.07756903	6.84E-06
C	T	0.02	-0.3550364	0.07756903	6.84E-06
A	G	0.02	-0.3550364	0.07756903	6.84E-06
C	A	0.02	-0.3550364	0.07756903	6.84E-06
C	A	0.02	-0.3550364	0.07756903	6.84E-06
T	G	0.02	-0.3550364	0.07756903	6.84E-06
T	C	0.02	-0.3550364	0.07756903	6.84E-06
C	T	0.02	-0.3562366	0.07755884	6.37E-06
CT	C	0.02	-0.3550364	0.07756903	6.84E-06
C	G	0.02	-0.3550364	0.07756903	6.84E-06
A	G	0.02	-0.3857348	0.08456283	7.33E-06
G	A	0.02	-0.3550364	0.07756903	6.84E-06
C	T	0.02	-0.3550364	0.07756903	6.84E-06
TAG	T	0.02	-0.3550364	0.07756903	6.84E-06
G	A	0.02	-0.3550364	0.07756903	6.84E-06
G	GT	0.05	-0.2352655	0.05198972	8.60E-06
G	GCA	0.01	-0.4527132	0.09966496	7.97E-06
G	GT	0.02	-0.4061192	0.08275282	1.52E-06
T	A	0.04	-0.2745024	0.05796126	3.35E-06
GTC	G	0.05	-0.2279486	0.0503323	8.46E-06
G	A	0.01	-0.4951616	0.1025519	2.19E-06
A	G	0.02	-0.3679728	0.07979797	5.87E-06
T	A	0.01	-0.476293	0.1047706	7.84E-06
AACACACAC	A	0.02	-0.3939509	0.0828074	3.04E-06
T	C	0.05	-0.2313035	0.05080196	7.60E-06
C	G	0.03	-0.3142209	0.06644692	3.46E-06
T	C	0.05	-0.2267271	0.04946432	6.64E-06

T	TA	0.05	-0.2770004	0.05159741	1.64E-07
C	T	0.03	-0.3145889	0.06505108	2.12E-06
T	C	0.05	-0.2243834	0.04901072	6.80E-06
A	C	0.06	-0.2173663	0.04794548	8.28E-06
T	G	0.02	-0.3251448	0.07151066	7.82E-06
T	C	0.02	-0.3251448	0.07151066	7.82E-06
C	G	0.02	-0.3412191	0.07233455	3.65E-06
G	T	0.02	-0.3412191	0.07233455	3.65E-06
C	A	0.02	-0.3412191	0.07233455	3.65E-06
G	C	0.02	-0.3412191	0.07233455	3.65E-06
A	G	0.02	-0.3412191	0.07233455	3.65E-06
T	C	0.02	-0.3412191	0.07233455	3.65E-06
G	T	0.01	-0.4649377	0.09628053	2.19E-06
CAGG	C	0.03	-0.2956214	0.06122775	2.20E-06
C	T	0.01	-0.451375	0.09947465	8.14E-06
G	A	0.03	-0.3533146	0.06621228	1.93E-07
AAT	A	0.02	-0.4207019	0.08515641	1.30E-06
A	C	0.02	-0.4086086	0.0862988	3.37E-06
C	T	0.01	-0.4322266	0.09511	7.90E-06
A	T	0.01	-0.4322266	0.09511	7.90E-06
C	T	0.01	-0.4322266	0.09511	7.90E-06
T	TA	0.01	-0.4498165	0.09872062	7.49E-06
C	T	0.01	-0.5182738	0.1088764	3.00E-06
A	C	0.01	-0.5182738	0.1088764	3.00E-06
GGAGA	G	0.29	0.1134185	0.02455878	5.69E-06
C	T	0.3	0.1154261	0.02434394	3.27E-06
C	A	0.3	0.1258434	0.02428213	4.09E-07
AG	A	0.29	0.1158208	0.02449394	3.46E-06
C	T	0.29	0.1152198	0.02420565	3.00E-06
G	A	0.29	0.1152066	0.02454105	4.04E-06
A	T	0.01	-0.4787835	0.1048449	7.16E-06
G	A	0.02	-0.3635639	0.07840002	5.23E-06
C	T	0.27	-0.11773	0.02576375	7.07E-06
T	C	0.31	-0.1121397	0.02461683	7.53E-06
G	A	0.27	-0.1157557	0.02554869	8.39E-06
C	A	0.27	-0.1148318	0.02544741	9.09E-06
T	TA	0.31	-0.1164658	0.02449185	3.07E-06
A	G	0.27	-0.1146069	0.02550802	9.90E-06
T	TG	0.31	-0.1204638	0.02431384	1.22E-06
G	T	0.28	-0.1188036	0.02540521	4.39E-06
C	A	0.04	-0.2742344	0.0591562	5.26E-06
C	T	0.02	-0.3883002	0.08532576	7.68E-06
T	C	0.01	-0.4745243	0.1053963	9.51E-06
T	G	0.27	-0.1117731	0.02409538	5.19E-06
T	A	0.28	-0.1087984	0.0242235	9.97E-06
A	T	0.02	-0.3318692	0.07284978	7.52E-06
C	A	0.02	-0.3300948	0.07274387	8.13E-06
GA	G	0.02	-0.3091074	0.06853879	9.19E-06
C	T	0.02	-0.4332381	0.09047923	2.64E-06
G	T	0.05	-0.2167341	0.0477432	8.07E-06

G	T	0.05	-0.2166727	0.04774454	8.12E-06
T	C	0.05	-0.2301857	0.05002801	6.14E-06
C	T	0.02	-0.3124697	0.06566948	3.03E-06
C	T	0.5	0.1055719	0.021878	2.22E-06
C	T	0.5	0.1102535	0.02182684	7.71E-07
C	T	0.5	-0.1058064	0.02190148	2.17E-06
C	T	0.5	-0.1067376	0.02183194	1.66E-06
G	T	0.48	0.1003492	0.0220681	7.80E-06
C	T	0.44	0.103213	0.02223004	5.10E-06
C	T	0.5	-0.1021093	0.02198327	5.05E-06
A	G	0.32	0.1064997	0.02351244	8.44E-06
A	G	0.47	0.1041869	0.02201184	3.39E-06
C	T	0.5	0.1113462	0.02208048	8.03E-07
T	C	0.5	0.1112856	0.02220454	9.30E-07
G	A	0.39	-0.1114292	0.02239028	1.10E-06
A	T	0.43	-0.100857	0.02183447	5.67E-06
G	A	0.01	-0.4299881	0.09517048	8.87E-06
G	GT	0.01	-0.4537366	0.09055186	9.34E-07
G	GA	0.02	-0.428984	0.09073348	3.47E-06
G	T	0.05	-0.2422582	0.0482936	9.10E-07
C	T	0.05	-0.2632999	0.0484048	1.15E-07
A	T	0.01	-1.222274	0.2626494	4.99E-06
C	CT	0.11	-0.3901861	0.08572923	7.85E-06
C	T	0.02	-0.7431167	0.1652783	9.99E-06
G	A	0.04	-0.6350136	0.1383282	6.60E-06
G	A	0.01	-1.312769	0.2442983	1.68E-07
T	A	0.13	0.3826658	0.08464332	8.97E-06
G	GT	0.02	-0.8541521	0.1876969	7.87E-06
C	T	0.01	-0.9935613	0.2205124	9.59E-06
A	G	0.05	-0.5803943	0.1247217	4.99E-06
G	A	0.05	-0.6071916	0.1254228	2.13E-06
T	C	0.05	-0.5803943	0.1247217	4.99E-06
TTA	T	0.03	-0.7042703	0.143527	1.58E-06
T	A	0.01	-1.086933	0.24148	9.78E-06
A	C	0.03	-0.7790473	0.1643308	3.37E-06
T	C	0.01	-1.121191	0.2325192	2.33E-06
A	G	0.01	-1.121191	0.2325192	2.33E-06
A	G	0.01	-1.121191	0.2325192	2.33E-06
T	G	0.06	-0.5098517	0.1113299	6.93E-06
TG	T	0.24	-0.336819	0.06863911	1.57E-06
C	A	0.01	-1.174092	0.250234	4.20E-06
T	C	0.18	-0.3183264	0.06816517	4.64E-06
C	T	0.01	-1.155666	0.2568488	9.85E-06
A	AT	0.01	-1.155666	0.2568488	9.85E-06
G	A	0.02	-0.9509922	0.2100243	8.70E-06
G	T	0.02	-1.054566	0.2136169	1.37E-06
C	G	0.02	-0.9509922	0.2100243	8.70E-06
C	T	0.05	-0.5421635	0.1136848	2.97E-06
A	C	0.07	-0.4803845	0.1053413	7.55E-06
G	A	0.07	-0.4803845	0.1053413	7.55E-06

C	T	0.07	-0.4803845	0.1053413	7.55E-06
C	T	0.04	-0.6358558	0.130486	1.84E-06
T	C	0.01	-1.06431	0.2250829	3.57E-06
T	C	0.01	-1.043161	0.2205927	3.56E-06
G	A	0.01	-1.093821	0.2327278	4.05E-06
G	GTATA	0.01	-1.263425	0.2538775	1.14E-06
C	T	0.24	-0.276906	0.05474426	7.74E-07
ATG	A	0.04	-0.6183593	0.1333217	5.35E-06
A	G	0.01	-1.080437	0.22218	1.93E-06
G	A	0.01	-1.099491	0.2382776	5.95E-06
C	T	0.05	-0.5407252	0.1196724	9.07E-06
TTTTG	T	0.15	-0.3465062	0.0770495	9.95E-06
G	T	0.21	-0.2830969	0.06148429	6.21E-06
G	A	0.24	-0.2690557	0.05895503	7.43E-06
A	G	0.24	-0.2772284	0.05925394	4.46E-06
T	C	0.24	-0.2677705	0.05890437	8.04E-06
A	G	0.08	-0.4627352	0.100974	6.84E-06
C	T	0.08	-0.4627352	0.100974	6.84E-06
A	G	0.01	-1.256797	0.2577169	1.81E-06
C	T	0.01	-1.256797	0.2577169	1.81E-06
T	A	0.01	-1.256797	0.2577169	1.81E-06
C	T	0.02	-0.8762389	0.1930425	8.28E-06
T	A	0.46	0.2335279	0.05175562	9.32E-06
CAA	C	0.45	0.2538231	0.05513454	6.23E-06
T	C	0.01	-1.029623	0.2251457	7.13E-06
A	C	0.03	-0.6903894	0.1527712	9.04E-06
C	T	0.03	-0.6903894	0.1527712	9.04E-06
A	T	0.03	-0.6903894	0.1527712	9.04E-06
G	T	0.03	-0.7166464	0.1543971	5.27E-06
G	A	0.03	-0.6903894	0.1527712	9.04E-06
T	C	0.03	-0.6903894	0.1527712	9.04E-06
A	G	0.03	-0.6903894	0.1527712	9.04E-06
C	T	0.03	-0.6903894	0.1527712	9.04E-06
T	C	0.03	-0.6903894	0.1527712	9.04E-06
A	G	0.03	-0.6903894	0.1527712	9.04E-06
C	T	0.03	-0.6903894	0.1527712	9.04E-06
C	G	0.03	-0.6903894	0.1527712	9.04E-06
A	G	0.03	-0.6903894	0.1527712	9.04E-06
ATAGT	A	0.03	-0.6903894	0.1527712	9.04E-06
A	G	0.03	-0.6903894	0.1527712	9.04E-06
A	ACTGTGT	0.03	-0.6903894	0.1527712	9.04E-06
T	C	0.03	-0.7446722	0.1613556	5.93E-06
G	T	0.03	-0.80367	0.1647705	1.80E-06
C	T	0.03	-0.7222279	0.1579235	7.13E-06
G	A	0.03	-0.6903894	0.1527712	9.04E-06
C	G	0.03	-0.6903894	0.1527712	9.04E-06
T	A	0.03	-0.7039103	0.1561334	9.47E-06
G	C	0.03	-0.6903894	0.1527712	9.04E-06
G	A	0.03	-0.6903894	0.1527712	9.04E-06
T	C	0.03	-0.6903894	0.1527712	9.04E-06

C	G	0.03	-0.6903894	0.1527712	9.04E-06
A	G	0.03	-0.7104462	0.1456688	1.81E-06
C	G	0.05	-0.5480184	0.1205564	8.05E-06
G	C	0.37	-0.2466331	0.05422747	7.96E-06
C	G	0.02	0.5493351	0.09195435	7.63E-09
C	T	0.28	0.156268	0.0257497	4.59E-09
A	C	0.29	0.1599317	0.02552392	1.57E-09
T	C	0.1	-0.4842364	0.0872591	6.92E-08
G	A	0.02	0.9475534	0.2104637	9.72E-06
GGTGTGTGTGTGT	G	0.1	0.4432553	0.09194907	2.34E-06
A	C	0.03	0.6950676	0.1517294	6.88E-06
G	C	0.03	0.6950676	0.1517294	6.88E-06
C	T	0.03	0.7404771	0.1532814	2.23E-06
A	AGG	0.03	0.7733686	0.14224	1.22E-07
G	A	0.01	1.162834	0.2526926	6.28E-06
T	C	0.01	1.278584	0.2585582	1.32E-06
T	G	0.01	1.061715	0.227928	4.88E-06
G	C	0.01	1.061715	0.227928	4.88E-06
G	A	0.01	1.061715	0.227928	4.88E-06
C	T	0.01	1.061715	0.227928	4.88E-06
T	TA	0.22	-0.2926453	0.064478	8.29E-06
G	T	0.01	-1.01271	0.2179905	5.16E-06
C	G	0.01	-1.01271	0.2179905	5.16E-06
G	GT	0.48	-0.2323598	0.05111918	8.04E-06
C	T	0.03	0.758561	0.1619123	4.33E-06
C	A	0.02	1.129524	0.1741032	4.55E-10
C	CT	0.37	0.2546654	0.05412632	3.96E-06
C	A	0.06	0.4903357	0.1055292	5.15E-06
G	GACACACACACAC	0.01	-1.045843	0.2103089	1.15E-06
T	C	0.24	-0.2794382	0.06195333	9.37E-06
T	TG	0.23	-0.2903544	0.06213106	4.56E-06
G	A	0.22	-0.3078033	0.06228786	1.34E-06
A	G	0.24	-0.2794382	0.06195333	9.37E-06
T	C	0.24	-0.2846674	0.06155333	5.67E-06
T	G	0.24	-0.2846674	0.06155333	5.67E-06
C	G	0.24	-0.2846674	0.06155333	5.67E-06
C	T	0.24	-0.2846674	0.06155333	5.67E-06
C	T	0.24	-0.2846674	0.06155333	5.67E-06
C	T	0.24	-0.2846674	0.06155333	5.67E-06
TA	T	0.24	-0.2808387	0.06197613	8.55E-06
TA	T	0.24	-0.2808387	0.06197613	8.55E-06
C	T	0.23	-0.2910343	0.06312832	6.05E-06
T	A	0.24	-0.2793157	0.06188717	9.26E-06
GCAAT	G	0.24	-0.2818398	0.06189855	7.77E-06
A	G	0.24	-0.2793157	0.06188717	9.26E-06
A	G	0.24	-0.2793157	0.06188717	9.26E-06
T	G	0.24	-0.2957189	0.0620347	2.99E-06
A	G	0.24	-0.2857733	0.06182009	5.72E-06
G	A	0.24	-0.2857733	0.06182009	5.72E-06
C	T	0.24	-0.2857733	0.06182009	5.72E-06

G	C	0.24	-0.2800739	0.06187042	8.73E-06
C	T	0.24	-0.2802746	0.06216716	9.46E-06
G	GT	0.24	-0.2890818	0.06180633	4.48E-06
A	G	0.24	-0.2832461	0.0613774	5.92E-06
G	A	0.24	-0.2804332	0.0610495	6.51E-06
CAT	C	0.23	-0.2865585	0.06136923	4.64E-06
T	C	0.24	-0.2839846	0.06135136	5.57E-06
A	C	0.24	-0.2839846	0.06135136	5.57E-06
C	T	0.24	-0.2832461	0.0613774	5.92E-06
G	A	0.24	-0.2832899	0.06136081	5.87E-06
T	C	0.24	-0.2839846	0.06135136	5.57E-06
T	C	0.23	-0.2787261	0.06140392	8.27E-06
G	A	0.24	-0.2832461	0.0613774	5.92E-06
G	T	0.01	1.304181	0.2568941	7.07E-07
A	G	0.01	1.304181	0.2568941	7.07E-07
G	A	0.01	1.304181	0.2568941	7.07E-07
C	T	0.01	1.343781	0.2622166	5.62E-07
G	A	0.01	1.207724	0.2388876	7.82E-07
C	T	0.05	0.5454103	0.1187521	6.53E-06
G	A	0.05	0.5390614	0.1178478	7.09E-06
G	T	0.04	0.6182456	0.1277007	2.13E-06
G	A	0.06	-0.5009937	0.1083855	5.73E-06
C	CT	0.01	1.027175	0.2278275	9.45E-06
G	A	0.05	-0.5440611	0.1197026	8.06E-06
GAAAA	G	0.03	-0.7342061	0.1594089	6.16E-06
C	T	0.15	-0.3333645	0.07372713	8.93E-06
A	G	0.11	-0.3831537	0.08429462	8.05E-06
C	T	0.11	-0.3795124	0.08235087	6.09E-06
G	A	0.12	-0.3660893	0.08056611	8.10E-06
C	CT	0.02	0.9015288	0.1996572	9.18E-06
T	TTGAGG	0.16	0.3311212	0.0721299	6.59E-06
T	C	0.17	0.3149358	0.06983706	9.41E-06
G	T	0.17	0.3156744	0.07019964	9.95E-06
AC	A	0.17	0.3208404	0.0701814	7.17E-06
G	T	0.17	0.3180777	0.07010031	8.33E-06
C	A	0.17	0.3180777	0.07010031	8.33E-06
G	T	0.17	0.3156744	0.07019964	9.95E-06
A	C	0.17	0.3156744	0.07019964	9.95E-06
T	C	0.17	0.3180777	0.07010031	8.33E-06
C	A	0.17	0.3198673	0.07002803	7.29E-06
G	A	0.17	0.3182582	0.0700773	8.18E-06
C	G	0.17	0.3169712	0.06946885	7.45E-06
C	T	0.17	0.3156841	0.06983879	8.99E-06
T	C	0.17	0.3156841	0.06983879	8.99E-06
C	CT	0.43	0.2199011	0.04786867	6.50E-06
T	C	0.04	0.5980449	0.1307348	7.08E-06
C	T	0.02	0.9663708	0.2109675	6.89E-06
T	C	0.05	-0.6008264	0.1268448	3.43E-06
T	G	0.12	0.3821847	0.0832986	6.67E-06
C	T	0.01	1.096026	0.2232039	1.55E-06

G	A	0.38	0.258665	0.05516601	4.26E-06
T	C	0.38	0.2643036	0.05527376	2.80E-06
G	A	0.01	1.040498	0.2096604	1.21E-06
C	T	0.02	0.8412857	0.1747436	2.41E-06
T	A	0.02	0.881646	0.1763978	1.03E-06
G	A	0.02	0.9314555	0.1921147	2.06E-06
T	C	0.02	0.9899299	0.2038536	1.99E-06
ATC	A	0.01	1.32504	0.2334628	3.63E-08
C	T	0.02	0.8713159	0.186531	4.61E-06
G	A	0.03	0.6589498	0.1456398	8.82E-06
T	C	0.01	-0.9978958	0.2215628	9.65E-06
C	A	0.01	1.13402	0.2409239	3.92E-06
A	AAATG	0.27	-0.2770097	0.06104249	8.31E-06
C	T	0.01	1.050261	0.2189432	2.61E-06
C	T	0.01	1.050261	0.2189432	2.61E-06
C	T	0.01	1.195412	0.2357966	7.31E-07
G	A	0.01	1.050261	0.2189432	2.61E-06
GT	G	0.01	1.050261	0.2189432	2.61E-06
T	C	0.01	1.050261	0.2189432	2.61E-06
A	G	0.01	1.050261	0.2189432	2.61E-06
C	G	0.01	1.050261	0.2189432	2.61E-06
G	A	0.01	1.050261	0.2189432	2.61E-06
C	A	0.01	1.050261	0.2189432	2.61E-06
A	G	0.01	0.7000431	0.1143122	3.95E-09
T	A	0.01	0.7534519	0.1227529	2.95E-09
G	T	0.02	-0.6146446	0.1037883	9.52E-09
T	A	0.01	0.848499	0.1303015	3.63E-10
C	A	0.02	0.4282473	0.07047748	4.84E-09
AT	A	0.01	-0.6483362	0.1090415	8.37E-09
AT	A	0.34	0.2464021	0.0529625	4.90E-06
T	G	0.34	0.2577188	0.05331851	2.15E-06
G	T	0.15	-0.3397715	0.0689082	1.37E-06
C	T	0.15	-0.3397715	0.0689082	1.37E-06
T	C	0.15	-0.3225292	0.06808284	3.34E-06
C	T	0.12	-0.3641929	0.07666636	3.15E-06
G	A	0.12	-0.3635352	0.0766303	3.24E-06
C	T	0.29	-0.2396228	0.05286759	8.34E-06
A	G	0.04	-0.5866256	0.1262419	5.02E-06
A	T	0.4	0.228693	0.05032146	7.91E-06
T	G	0.4	0.2264134	0.05028947	9.53E-06
C	A	0.4	0.2307811	0.05002156	5.83E-06
G	A	0.4	0.2275273	0.0497421	6.94E-06
G	A	0.4	0.2242323	0.04990934	9.93E-06
C	G	0.4	0.2285134	0.04998937	7.03E-06
T	C	0.4	0.2258322	0.04983116	8.37E-06
G	A	0.01	1.034036	0.2243569	5.95E-06
C	T	0.01	1.034036	0.2243569	5.95E-06
CTCA	C	0.01	1.034036	0.2243569	5.95E-06
T	C	0.01	1.034036	0.2243569	5.95E-06
A	G	0.01	1.034036	0.2243569	5.95E-06

T	TA	0.06	0.4457228	0.09643344	5.61E-06
G	A	0.01	0.9856249	0.2165146	7.65E-06
A	AT	0.01	0.9978564	0.2122032	3.91E-06
T	A	0.08	-0.411023	0.08967432	6.66E-06
G	T	0.04	-0.5856003	0.1244675	3.87E-06
A	G	0.31	-0.243233	0.05239365	5.12E-06
T	TGGG	0.01	-1.202825	0.2408449	1.01E-06
CT	C	0.02	0.9608763	0.1976248	1.88E-06
CGT	C	0.01	1.125078	0.2324232	2.08E-06
T	C	0.11	0.3608957	0.08024311	9.73E-06
A	G	0.15	0.3226498	0.06766026	2.89E-06
G	A	0.16	0.3194592	0.06667363	2.61E-06
T	G	0.16	0.3082756	0.06683476	5.86E-06
A	G	0.16	0.3082756	0.06683476	5.86E-06
G	GA	0.13	0.3282027	0.07224709	7.98E-06
C	CTT	0.01	0.8836927	0.1953234	8.65E-06
G	T	0.03	0.7047983	0.1554826	8.33E-06
A	G	0.02	0.8599274	0.1813791	3.28E-06
AC	A	0.01	-1.131467	0.2353994	2.43E-06
G	T	0.02	0.7558323	0.1614216	4.28E-06
T	TTCTCTCTC	0.04	0.5868224	0.1235877	3.18E-06
C	T	0.26	-0.2618285	0.05722698	6.91E-06
C	T	0.23	-0.2773985	0.06098053	7.76E-06
T	C	0.26	-0.2602824	0.05669002	6.43E-06
G	A	0.25	-0.2791962	0.05752495	1.96E-06
C	A	0.25	-0.2629348	0.05805735	8.48E-06
A	G	0.26	-0.2607468	0.05733791	7.81E-06
C	T	0.05	0.5372402	0.114942	4.45E-06
G	A	0.27	0.2478871	0.05418842	6.93E-06
T	C	0.01	1.089536	0.2304218	3.48E-06
C	T	0.02	0.788633	0.1730443	7.48E-06
G	T	0.04	-0.5672092	0.1259556	9.49E-06
C	T	0.41	-0.2387253	0.04598484	3.94E-07
A	G	0.04	-0.6099312	0.1185348	4.92E-07
C	A	0.01	1.143613	0.223264	5.50E-07
C	CGTGTGTGTGT	0.01	0.9346955	0.2041268	6.80E-06
T	A	0.13	0.3205044	0.07018557	7.18E-06
C	T	0.01	1.134112	0.239688	3.43E-06
A	G	0.01	0.9611255	0.2121604	8.43E-06
G	A	0.11	-0.3637991	0.07874498	5.66E-06
C	T	0.11	-0.3618482	0.07893359	6.64E-06
AGT	A	0.05	0.5085402	0.1115658	7.45E-06
A	G	0.08	-0.3940313	0.08532156	5.71E-06
C	T	0.05	-0.4938523	0.1065832	5.33E-06
TTTTTATGTATTG	T	0.01	1.136442	0.238471	2.94E-06
C	CA	0.25	-0.2649225	0.05415634	1.64E-06
A	AAAGG	0.39	-0.2150372	0.04731192	7.89E-06
TATA	T	0.49	-0.2235344	0.04738733	3.66E-06
A	G	0.02	0.7808084	0.1263472	2.33E-09
CT	C	0.01	0.6329844	0.1052251	6.70E-09

A	G	0.03	-0.3225955	0.06909565	4.54E-06
G	C	0.03	-0.3337695	0.06818742	1.61E-06
C	T	0.03	-0.3213832	0.06906765	4.87E-06
A	G	0.02	-0.3908182	0.07773069	8.62E-07
A	G	0.07	-0.2101099	0.04469873	3.93E-06
T	A	0.03	-0.3045617	0.06704653	7.97E-06
C	T	0.01	-0.5290651	0.1056004	9.37E-07
A	G	0.01	-0.4701508	0.09532798	1.36E-06
C	T	0.01	-0.4701508	0.09532798	1.36E-06
C	T	0.01	-0.4701508	0.09532798	1.36E-06
G	A	0.01	-0.4696227	0.09522906	1.36E-06
G	A	0.01	-0.4696227	0.09522906	1.36E-06
C	G	0.01	-0.4696227	0.09522906	1.36E-06
G	A	0.02	-0.4358924	0.09332357	4.50E-06
C	T	0.02	-0.4358924	0.09332357	4.50E-06
G	A	0.02	-0.4358924	0.09332357	4.50E-06
ACG	A	0.01	-0.4740316	0.102682	5.74E-06
A	G	0.12	-0.1531863	0.03402149	9.49E-06
TTCTC	T	0.05	-0.2327619	0.05138253	8.42E-06
C	T	0.02	-0.4122836	0.09135683	9.07E-06
A	G	0.02	-0.4122836	0.09135683	9.07E-06
G	A	0.04	-0.2668206	0.05841046	7.12E-06
A	G	0.09	-0.207266	0.04078488	6.65E-07
GTATC	G	0.09	-0.207266	0.04078488	6.65E-07
G	A	0.09	-0.207266	0.04078488	6.65E-07
G	A	0.09	-0.207266	0.04078488	6.65E-07
C	T	0.09	-0.1941669	0.03958761	1.54E-06
T	G	0.09	-0.1939913	0.03958955	1.57E-06
A	T	0.1	-0.1884619	0.03923177	2.46E-06
A	T	0.1	0.1887828	0.03781512	1.02E-06
T	C	0.02	-0.3676742	0.08019109	6.60E-06
C	T	0.01	-0.5705045	0.1089491	3.15E-07
T	A	0.01	-0.4774742	0.1026594	4.92E-06
A	T	0.02	-0.3556919	0.07562606	3.89E-06
C	A	0.02	-0.3556919	0.07562606	3.89E-06
C	CAT	0.05	-0.2573309	0.05536138	4.98E-06
G	GA	0.01	-0.5225232	0.1095751	2.89E-06
AGTGT	A	0.03	-0.2943186	0.06332756	4.99E-06
A	T	0.05	-0.262442	0.05459981	2.42E-06
C	T	0.03	-0.3831422	0.06517166	1.18E-08
A	C	0.1	-0.1747089	0.03866431	8.85E-06
T	TC	0.1	-0.1766714	0.03846718	6.38E-06
A	G	0.1	-0.1781566	0.03926911	8.17E-06
TAAGAG	T	0.01	-0.4951401	0.1091749	8.22E-06
C	G	0.01	-0.4447448	0.09780777	7.81E-06
G	A	0.01	-0.4447448	0.09780777	7.81E-06
A	G	0.11	-0.1642089	0.03496368	4.01E-06
AGT	A	0.13	-0.1530984	0.03368673	7.89E-06
C	T	0.02	-0.3875635	0.08573497	8.78E-06
TAC	T	0.2	-0.142477	0.03102611	6.39E-06

G	A	0.01	-0.4968404	0.1004787	1.28E-06
G	A	0.01	-0.4573594	0.09800177	4.58E-06
G	T	0.02	-0.4418288	0.09355621	3.56E-06
C	A	0.02	-0.4418288	0.09355621	3.56E-06
G	A	0.01	-0.4573594	0.09800177	4.58E-06
A	C	0.02	-0.4418288	0.09355621	3.56E-06
T	A	0.02	-0.4418288	0.09355621	3.56E-06
T	TTG	0.01	-0.4637158	0.09522076	1.81E-06
G	A	0.03	-0.305002	0.06701712	7.67E-06
A	G	0.02	-0.3980762	0.07530564	2.47E-07
G	A	0.02	-0.4751006	0.08546127	6.25E-08
C	CAG	0.09	0.1960228	0.04186103	4.26E-06
T	C	0.03	-0.2869994	0.06227198	5.94E-06
TA	T	0.01	-0.4570952	0.1004075	7.63E-06
G	C	0.1	-0.1713456	0.03791148	8.81E-06
C	A	0.08	-0.1955316	0.04097807	2.85E-06
C	T	0.04	-0.3014666	0.06016368	9.34E-07
G	A	0.02	-0.3736627	0.07352096	6.64E-07
T	C	0.03	-0.2857535	0.06314707	8.60E-06
A	G	0.01	-0.4533489	0.09786997	5.35E-06
A	C	0.1	-0.1808928	0.03958115	7.05E-06
G	T	0.1	-0.1808928	0.03958115	7.05E-06
G	A	0.12	-0.1644215	0.03310553	1.15E-06
TC	T	0.02	0.9115039	0.1922944	3.33E-06
C	T	0.03	0.7878462	0.1734689	8.07E-06
A	G	0.24	0.2856969	0.0631857	8.82E-06
G	A	0.02	0.9632044	0.1978708	1.85E-06
CT	C	0.1	-0.4395433	0.09464527	5.13E-06
T	G	0.07	-0.5186075	0.1059162	1.62E-06
A	G	0.07	-0.501082	0.1060787	3.58E-06
T	C	0.02	-0.8587223	0.1872784	6.66E-06
T	C	0.01	1.062378	0.2353097	9.08E-06
TTC	T	0.01	-1.197938	0.2358027	6.81E-07
G	A	0.01	-1.078626	0.2343445	6.16E-06
C	T	0.01	-1.227862	0.259137	3.35E-06
TC	T	0.03	-0.7767082	0.1532877	7.26E-07
C	T	0.02	0.9797222	0.215171	7.67E-06
A	G	0.13	-0.3670018	0.08019817	6.93E-06
A	C	0.18	-0.3177474	0.06859943	5.41E-06
CTT	C	0.02	-0.9445565	0.1978609	2.85E-06
G	A	0.02	-0.9445565	0.1978609	2.85E-06
C	T	0.02	-0.9445565	0.1978609	2.85E-06
T	G	0.01	-1.236217	0.2590153	2.87E-06
T	A	0.33	0.2619985	0.05529933	3.36E-06
AC	A	0.03	-0.7857766	0.1691524	5.10E-06
A	C	0.44	-0.2481167	0.05419574	6.87E-06
G	A	0.4	-0.255898	0.05480788	4.58E-06
T	C	0.4	-0.2635698	0.05612876	4.06E-06
A	C	0.4	-0.2619926	0.0568826	6.08E-06
G	T	0.19	-0.3211345	0.06914829	5.13E-06

G	C	0.01	-1.116155	0.242294	6.06E-06
CA	C	0.28	-0.2796083	0.06157918	8.11E-06
A	AT	0.22	-0.300121	0.05892595	6.40E-07
C	T	0.12	0.397859	0.08588881	5.40E-06
A	G	0.12	0.388916	0.08539568	7.64E-06
A	G	0.08	0.4618286	0.1024058	9.29E-06
A	G	0.13	-0.3966213	0.08211338	2.20E-06
G	A	0.44	-0.2532333	0.0551587	6.49E-06
G	A	0.46	0.2495015	0.05512851	8.66E-06
A	T	0.02	-0.9642992	0.1993763	2.14E-06
A	G	0.49	0.2392475	0.05323984	9.96E-06
G	C	0.12	-0.3818764	0.08464857	9.22E-06
C	G	0.12	-0.3818764	0.08464857	9.22E-06
A	G	0.12	-0.3943206	0.08464433	4.80E-06
T	G	0.12	-0.3957056	0.08438786	4.19E-06
GCTAA	G	0.12	-0.3904918	0.0846318	5.86E-06
A	G	0.12	-0.3854017	0.08424552	6.98E-06
A	G	0.1	-0.5114491	0.09062551	4.15E-08
G	A	0.29	-0.2876349	0.05880696	1.66E-06
A	G	0.19	-0.3024929	0.0671697	9.55E-06
G	A	0.41	0.2606423	0.05678771	6.53E-06
C	G	0.41	0.2606423	0.05678771	6.53E-06
T	C	0.02	0.9163728	0.1977642	5.37E-06
T	C	0.02	0.9163728	0.1977642	5.37E-06
G	T	0.02	0.9163728	0.1977642	5.37E-06
A	G	0.02	0.9163728	0.1977642	5.37E-06
G	A	0.02	0.9163728	0.1977642	5.37E-06
C	A	0.02	0.9163728	0.1977642	5.37E-06
C	A	0.02	0.9163728	0.1977642	5.37E-06
A	G	0.02	0.9163728	0.1977642	5.37E-06
T	C	0.02	0.9163728	0.1977642	5.37E-06
TA	T	0.02	0.9303646	0.200611	5.28E-06
A	C	0.02	0.9163728	0.1977642	5.37E-06
A	C	0.02	0.9163728	0.1977642	5.37E-06
G	A	0.02	0.9163728	0.1977642	5.37E-06
ATAGT	A	0.02	0.9163728	0.1977642	5.37E-06
C	A	0.02	0.9163728	0.1977642	5.37E-06
A	G	0.02	0.9163728	0.1977642	5.37E-06
G	A	0.02	0.9163728	0.1977642	5.37E-06
C	T	0.02	0.9163728	0.1977642	5.37E-06
G	A	0.02	0.9125524	0.1880946	2.00E-06
C	T	0.02	0.9125524	0.1880946	2.00E-06
C	A	0.29	-0.2833816	0.0612223	5.49E-06
C	T	0.28	-0.2839992	0.06154979	5.86E-06
C	G	0.29	-0.2967951	0.06045421	1.53E-06
C	T	0.28	-0.323424	0.06093134	2.25E-07
C	T	0.28	-0.297916	0.05881139	7.31E-07
C	A	0.29	-0.2967951	0.06045421	1.53E-06
G	A	0.29	-0.302734	0.06062041	1.03E-06
G	A	0.29	-0.2967951	0.06045421	1.53E-06

G	A	0.33	-0.2707706	0.05867815	5.85E-06
T	C	0.3	-0.2891091	0.06074999	3.05E-06
A	G	0.33	-0.2713065	0.0587217	5.70E-06
A	C	0.3	-0.2891091	0.06074999	3.05E-06
A	T	0.33	-0.2713065	0.0587217	5.70E-06
A	G	0.3	-0.2891091	0.06074999	3.05E-06
A	T	0.3	-0.2891091	0.06074999	3.05E-06
A	G	0.33	-0.2790982	0.05891104	3.36E-06
C	T	0.3	-0.2787106	0.06075964	6.61E-06
T	C	0.34	-0.2680394	0.05879274	7.48E-06
G	C	0.3	-0.2787106	0.06075964	6.61E-06
C	T	0.3	-0.2849927	0.06062229	3.97E-06
A	T	0.3	-0.2794771	0.06054591	5.81E-06
C	A	0.3	-0.2794771	0.06054591	5.81E-06
A	C	0.3	-0.2794771	0.06054591	5.81E-06
C	T	0.01	-1.311221	0.2437287	1.58E-07
A	G	0.01	-1.145235	0.2543868	9.61E-06
C	T	0.37	0.2654863	0.05777479	6.37E-06
T	G	0.01	-1.098846	0.2372277	5.35E-06
C	CACCT	0.02	-1.03028	0.2161768	2.92E-06
CAAATA	C	0.04	-0.7434321	0.1357457	9.51E-08
A	AT	0.01	-1.148302	0.2497646	6.24E-06
TG	T	0.02	-0.9436633	0.2089763	8.97E-06
G	A	0.01	-1.126293	0.2488584	8.57E-06
CTT	C	0.12	-0.3697838	0.0815796	8.31E-06
G	GTGGACTTGAACAGG	0.01	-1.243979	0.2613491	3.00E-06
G	C	0.01	-1.20571	0.2428541	1.16E-06
C	T	0.03	-0.7694364	0.1574256	1.67E-06
A	G	0.06	-0.4977567	0.1082102	6.18E-06
G	T	0.06	-0.5068538	0.1075308	3.71E-06
G	GT	0.07	-0.5023598	0.1074956	4.45E-06
C	CGTGTGTGT	0.02	-0.9213444	0.1936913	3.05E-06
CCTT	C	0.02	-0.8689797	0.1901074	7.02E-06
A	AGTGTGTGTGTGTGT	0.01	-1.244605	0.2499684	1.09E-06
C	T	0.02	-0.8029607	0.1787948	9.99E-06
A	G	0.02	-0.8029607	0.1787948	9.99E-06
C	G	0.02	-0.8029607	0.1787948	9.99E-06
A	AT	0.13	0.3634831	0.08020472	8.35E-06
T	C	0.02	-0.9414062	0.2025996	5.01E-06
T	A	0.02	-0.9745555	0.214384	7.85E-06
A	AAAAGAAAGAAAG	0.02	-0.9072108	0.1920574	3.54E-06
G	GGTGT	0.08	-0.4833381	0.1036309	4.64E-06
G	A	0.02	-0.9440125	0.2053946	6.28E-06
C	T	0.02	-0.9805904	0.2168245	8.70E-06
C	T	0.05	-0.5506778	0.1177789	4.40E-06
C	T	0.02	-0.9859776	0.2179653	8.66E-06
T	A	0.02	-1.040866	0.2197902	3.35E-06
A	G	0.02	-0.9859776	0.2179653	8.66E-06
A	G	0.02	-0.9859776	0.2179653	8.66E-06
A	G	0.02	-0.9859776	0.2179653	8.66E-06

T	A	0.02	-1.003518	0.2234194	9.96E-06
A	G	0.02	-0.9859776	0.2179653	8.66E-06
C	CCTCTCT	0.02	-0.9859776	0.2179653	8.66E-06
T	C	0.02	-0.9859776	0.2179653	8.66E-06
T	A	0.02	-1.132671	0.2234002	7.04E-07
G	A	0.02	-1.132671	0.2234002	7.04E-07
C	T	0.02	-1.132671	0.2234002	7.04E-07
C	A	0.02	-1.132671	0.2234002	7.04E-07
CAA	C	0.02	-1.132671	0.2234002	7.04E-07
A	G	0.02	-1.132671	0.2234002	7.04E-07
G	A	0.02	-1.132671	0.2234002	7.04E-07
C	A	0.02	-1.132671	0.2234002	7.04E-07
T	C	0.01	-1.054448	0.2267107	4.92E-06
G	A	0.02	-1.132671	0.2234002	7.04E-07
T	C	0.02	-1.132671	0.2234002	7.04E-07
G	C	0.02	-1.132671	0.2234002	7.04E-07
TG	T	0.02	-1.132671	0.2234002	7.04E-07
G	A	0.02	-1.132671	0.2234002	7.04E-07
T	TAAAACA	0.02	-1.132671	0.2234002	7.04E-07
A	G	0.02	-1.132671	0.2234002	7.04E-07
C	T	0.02	-1.132671	0.2234002	7.04E-07
T	TAA	0.02	-1.132671	0.2234002	7.04E-07
C	T	0.02	-1.132671	0.2234002	7.04E-07
A	G	0.02	-1.132671	0.2234002	7.04E-07
T	C	0.02	-1.132671	0.2234002	7.04E-07
G	T	0.02	-1.132671	0.2234002	7.04E-07
C	T	0.01	-1.054117	0.2306275	7.04E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
T	A	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
AT	A	0.02	-0.9586293	0.2123639	9.03E-06
A	T	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
T	G	0.02	-1.027977	0.216324	3.11E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
C	G	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
C	G	0.02	-0.9586293	0.2123639	9.03E-06
C	G	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
A	C	0.02	-0.9586293	0.2123639	9.03E-06
C	A	0.02	-0.9586293	0.2123639	9.03E-06

T	C	0.02	-0.9586293	0.2123639	9.03E-06
A	T	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
G	C	0.02	-0.9586293	0.2123639	9.03E-06
AACTCT	A	0.02	-0.9586293	0.2123639	9.03E-06
G	GT	0.02	-0.9586293	0.2123639	9.03E-06
A	T	0.01	-1.072608	0.2264547	3.34E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
G	C	0.02	-0.9586293	0.2123639	9.03E-06
T	G	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
A	T	0.02	-0.9586293	0.2123639	9.03E-06
C	G	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
T	A	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
C	G	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
G	T	0.02	-0.9586293	0.2123639	9.03E-06
G	C	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.972656	0.214608	8.33E-06
T	G	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
G	A	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
A	C	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
A	G	0.02	-0.9586293	0.2123639	9.03E-06
G	T	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
G	C	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
CA	C	0.02	-0.9586293	0.2123639	9.03E-06
A	T	0.02	-1.0119	0.2208878	6.72E-06
A	T	0.02	-0.9586293	0.2123639	9.03E-06
C	T	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06
T	C	0.02	-0.9586293	0.2123639	9.03E-06

G	A	0.02	-0.9586293	0.2123639	9.03E-06
A	C	0.02	-1.013078	0.2136585	3.27E-06
T	C	0.01	-1.208089	0.2308895	3.21E-07
G	A	0.02	-0.9155264	0.1890602	2.05E-06
T	C	0.04	-0.5978013	0.1323813	8.96E-06
A	G	0.02	-1.025966	0.221691	5.45E-06
C	T	0.02	-1.025966	0.221691	5.45E-06
T	TCCTTCCTTCCTTCCTT	0.02	-0.7963551	0.1763495	8.96E-06
A	G	0.01	-1.183	0.2521227	4.09E-06
T	C	0.08	-0.4564852	0.09879175	5.63E-06
G	A	0.08	-0.4627783	0.1015338	7.44E-06
G	A	0.02	-1.091814	0.1964289	6.28E-08
G	A	0.02	-1.039742	0.2125351	1.63E-06
C	T	0.03	-0.7014284	0.1533691	6.95E-06
C	T	0.03	-0.7014284	0.1533691	6.95E-06
T	C	0.03	-0.7907664	0.1725269	6.65E-06
T	C	0.02	-0.8306785	0.1758761	3.55E-06
CCTATCTAT	C	0.01	-1.288613	0.2605671	1.27E-06
T	C	0.1	-0.412643	0.08653569	2.89E-06
G	A	0.02	-0.9722044	0.2003811	1.97E-06
G	A	0.02	-0.8681592	0.1919742	8.71E-06
G	C	0.02	-0.854571	0.188188	8.02E-06
GA	G	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
T	C	0.02	-0.854571	0.188188	8.02E-06
C	T	0.02	-0.854571	0.188188	8.02E-06
T	C	0.02	-0.854571	0.188188	8.02E-06
TCTAA	T	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
C	T	0.02	-0.854571	0.188188	8.02E-06
C	A	0.02	-0.854571	0.188188	8.02E-06
G	T	0.02	-0.8928347	0.1947019	6.58E-06
G	T	0.02	-0.854571	0.188188	8.02E-06
G	GT	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
G	C	0.02	-0.854571	0.188188	8.02E-06
T	C	0.02	-0.8662839	0.1894262	6.96E-06
A	G	0.02	-0.854571	0.188188	8.02E-06
C	T	0.01	-1.060684	0.2197187	2.20E-06
GAAAA	G	0.02	-0.854571	0.188188	8.02E-06
C	G	0.02	-0.854571	0.188188	8.02E-06
A	G	0.02	-0.854571	0.188188	8.02E-06
A	C	0.02	-0.854571	0.188188	8.02E-06
G	A	0.02	-0.854571	0.188188	8.02E-06
C	T	0.02	-0.854571	0.188188	8.02E-06
TG	T	0.01	-1.318094	0.235085	4.90E-08
TGTGTGTGTGTGTGT	T	0.02	-0.814112	0.169949	2.61E-06
C	T	0.01	-1.317803	0.2646895	1.09E-06

T	G	0.03	-0.6764189	0.1488482	7.90E-06
G	A	0.03	-0.6764189	0.1488482	7.90E-06
T	C	0.03	-0.6764189	0.1488482	7.90E-06
T	C	0.03	-0.6764189	0.1488482	7.90E-06
C	G	0.13	-0.3457805	0.07583194	7.38E-06
G	T	0.13	-0.3440628	0.07524021	6.97E-06
G	A	0.12	-0.3665918	0.08045705	7.49E-06
A	G	0.12	-0.3784117	0.07971516	3.19E-06
G	T	0.12	-0.3631331	0.08066655	9.53E-06
C	A	0.06	-0.5204389	0.1131111	6.14E-06
A	G	0.06	-0.5204389	0.1131111	6.14E-06
G	C	0.06	-0.5204389	0.1131111	6.14E-06
CT	C	0.06	-0.5204389	0.1131111	6.14E-06
C	A	0.06	-0.5204389	0.1131111	6.14E-06
G	C	0.06	-0.5204389	0.1131111	6.14E-06
T	G	0.01	-1.219955	0.2686404	8.01E-06
A	G	0.03	-0.9810384	0.1700937	2.12E-08
T	A	0.01	-1.403727	0.2263354	2.05E-09
T	C	0.03	-0.7281682	0.1466203	1.15E-06
A	ACCAGGG	0.05	-0.5810945	0.1177722	1.34E-06
C	G	0.05	-0.6078332	0.1204157	7.83E-07
C	T	0.03	-0.7441514	0.1558543	2.81E-06
TA	T	0.03	-0.8118483	0.1538123	2.56E-07
G	A	0.03	-0.7213531	0.1504137	2.55E-06
C	G	0.03	-0.7097022	0.1570385	8.82E-06
C	T	0.08	-0.468753	0.0990879	3.43E-06
A	G	0.05	0.5539892	0.1209878	6.78E-06
A	G	0.09	-0.4480786	0.09544075	4.04E-06
G	T	0.28	-0.2700722	0.05903909	6.92E-06
A	G	0.03	-0.6690741	0.1423901	3.96E-06
C	CGTGTGTGT	0.06	-0.5683593	0.112403	7.52E-07
A	T	0.01	-1.214	0.2631239	5.81E-06
G	A	0.02	-1.020655	0.2152291	3.26E-06
G	A	0.01	-1.198767	0.25007	2.57E-06
G	A	0.05	-0.615216	0.1263927	1.83E-06
A	T	0.01	-1.167215	0.2459361	3.20E-06
A	G	0.01	-1.141619	0.2320849	1.44E-06
G	A	0.02	-1.008015	0.1996522	7.80E-07
CA	C	0.02	-0.9255114	0.2057327	9.66E-06
TACAC	T	0.01	-1.311276	0.2411	1.15E-07
T	C	0.02	-0.9027668	0.1964309	6.29E-06
G	A	0.01	-1.229469	0.2678463	6.45E-06
C	A	0.03	-0.7122635	0.1575492	8.76E-06
C	A	0.02	-1.024224	0.2112845	2.01E-06
C	A	0.25	-0.3095695	0.06009301	4.76E-07
C	T	0.13	-0.4119701	0.08088153	6.30E-07
G	C	0.25	-0.3106778	0.06012546	4.41E-07
G	A	0.22	-0.308315	0.06465393	2.89E-06
A	G	0.01	-1.271273	0.2525838	8.40E-07
A	G	0.3	0.2665421	0.05878324	8.26E-06

T	C	0.49	0.2513517	0.0548884	6.77E-06
ATT	A	0.03	-0.7451155	0.1611689	5.57E-06
A	T	0.03	-0.7451155	0.1611689	5.57E-06
A	G	0.02	-1.042529	0.1975982	2.59E-07
G	A	0.02	-1.023434	0.1988439	4.87E-07
T	C	0.46	-0.2541879	0.05316853	2.73E-06
A	C	0.46	-0.241982	0.05328529	8.01E-06
C	T	0.02	-0.8785318	0.1785892	1.44E-06
C	A	0.02	-0.9140763	0.1931839	3.42E-06
G	C	0.01	-1.137532	0.243295	4.40E-06
G	C	0.01	-1.091011	0.2409492	8.49E-06
C	T	0.01	-1.24742	0.2614317	2.85E-06
G	TGTTTTGTTTTGTTTT	0.01	-1.130928	0.2494447	8.28E-06
AAC	A	0.1	-0.4193348	0.09330234	9.84E-06
A	G	0.11	-0.4182961	0.08881991	3.78E-06
T	A	0.01	-1.315459	0.2670256	1.39E-06
G	GT	0.01	-1.006557	0.2052097	1.54E-06
G	GA	0.04	-0.6430671	0.1335947	2.35E-06
G	GA	0.07	-0.4371001	0.09691832	9.19E-06
G	A	0.03	-0.7874192	0.1745428	9.14E-06
C	T	0.04	-0.6644738	0.140644	3.53E-06
C	T	0.15	-0.3387308	0.07392829	6.69E-06
G	A	0.15	-0.3456937	0.07448021	5.13E-06
T	A	0.01	-1.18455	0.2458655	2.30E-06
G	C	0.01	-1.119131	0.2379746	3.90E-06
T	A	0.01	-1.14459	0.2451621	4.54E-06
A	G	0.01	-1.119131	0.2379746	3.90E-06
GCT	G	0.01	-1.119131	0.2379746	3.90E-06
\AGAAAAGAAAAGAA	A	0.01	-1.115021	0.2481606	9.89E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
G	A	0.01	-1.067425	0.2334438	6.98E-06
T	C	0.01	-1.005946	0.2236293	9.67E-06
C	T	0.01	-1.18455	0.2458655	2.30E-06
T	C	0.01	-1.049852	0.231538	8.26E-06
T	C	0.01	-1.145493	0.2408163	3.05E-06
C	T	0.01	-1.049852	0.231538	8.26E-06
C	T	0.01	-1.049852	0.231538	8.26E-06
G	C	0.01	-1.049852	0.231538	8.26E-06
T	A	0.01	-1.049852	0.231538	8.26E-06
AT	A	0.01	-1.049852	0.231538	8.26E-06
G	A	0.01	-1.049852	0.231538	8.26E-06
CAAATT	C	0.01	-1.049852	0.231538	8.26E-06
G	A	0.02	-1.051169	0.2231013	3.74E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
A	T	0.01	-1.119131	0.2379746	3.90E-06
T	A	0.01	-1.222805	0.2446765	9.94E-07
C	G	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
G	A	0.01	-1.119131	0.2379746	3.90E-06

G	A	0.01	-1.150152	0.2451638	4.10E-06
G	A	0.01	-1.119131	0.2379746	3.90E-06
G	T	0.01	-1.119131	0.2379746	3.90E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
TAA	T	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
G	A	0.01	-1.299655	0.2532333	5.22E-07
C	T	0.01	-1.119131	0.2379746	3.90E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
A	G	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
G	T	0.01	-1.119131	0.2379746	3.90E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
C	A	0.01	-1.119131	0.2379746	3.90E-06
G	A	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.119131	0.2379746	3.90E-06
G	C	0.01	-1.270308	0.2634665	2.26E-06
T	C	0.01	-1.119131	0.2379746	3.90E-06
C	T	0.01	-1.240855	0.2683263	5.54E-06
T	C	0.38	0.263693	0.05675584	5.03E-06
G	T	0.38	0.2715323	0.05750732	3.57E-06
C	T	0.36	0.2691279	0.05752879	4.35E-06
C	T	0.36	0.274345	0.05779111	3.18E-06
G	A	0.36	0.274345	0.05779111	3.18E-06
G	T	0.36	0.2653592	0.05749339	5.76E-06
G	T	0.36	0.2684778	0.05753928	4.60E-06
A	G	0.36	0.2692114	0.05735801	4.06E-06
C	T	0.36	0.2655745	0.05772276	6.15E-06
G	A	0.36	0.2674322	0.05770444	5.29E-06
C	T	0.36	0.2794677	0.05712986	1.63E-06
G	A	0.36	0.2575917	0.05576744	5.67E-06
T	G	0.36	0.2537162	0.05573955	7.65E-06
A	T	0.23	0.2938101	0.06395874	6.35E-06
C	T	0.02	-0.9534714	0.200786	3.16E-06
G	A	0.02	-1.109251	0.2186903	6.97E-07
CG	C	0.02	-1.109251	0.2186903	6.97E-07
T	C	0.02	-1.109251	0.2186903	6.97E-07
G	A	0.02	-1.109251	0.2186903	6.97E-07
G	A	0.02	-1.109251	0.2186903	6.97E-07
T	C	0.02	-1.090865	0.2229409	1.63E-06
C	T	0.01	-1.063707	0.2294734	5.27E-06
C	G	0.01	-1.257263	0.261428	2.40E-06
T	C	0.01	-1.199816	0.2596778	5.64E-06
C	T	0.03	-0.6911277	0.1532062	9.15E-06
C	T	0.05	-0.6415896	0.1214407	2.50E-07
G	A	0.01	-1.189585	0.2548361	4.56E-06
G	A	0.13	-0.3534332	0.07531994	4.08E-06
T	A	0.04	-0.6705307	0.1475122	7.86E-06
CAT	C	0.04	-0.61851	0.1374591	9.62E-06

G	A	0.01	-1.106999	0.2348823	3.72E-06
G	C	0.01	-1.304252	0.2645095	1.36E-06
G	T	0.03	-0.7997983	0.1605479	1.07E-06
C	T	0.03	-0.7997983	0.1605479	1.07E-06
A	G	0.02	-0.9923806	0.2154137	5.99E-06
C	G	0.08	-0.4624117	0.09995411	5.49E-06
CTT	C	0.12	-0.3132738	0.05160331	5.03E-09
T	A	0.01	-0.8021703	0.1286567	1.71E-09
G	T	0.02	-1.009672	0.1700497	8.74E-09
C	T	0.02	-0.9419029	0.1569515	6.21E-09
G	A	0.02	-0.9419029	0.1569515	6.21E-09
T	C	0.02	-0.9439638	0.1555731	4.34E-09
T	G	0.01	-0.8888854	0.1478481	5.79E-09
T	A	0.01	-0.7108988	0.117524	4.73E-09
G	A	0.14	0.2632119	0.04399409	7.81E-09
C	T	0.36	0.1970787	0.03233225	4.29E-09
G	A	0.36	0.1970787	0.03233225	4.29E-09
T	A	0.01	-0.8503209	0.1434849	9.23E-09
C	CGTGTGTGT	0.02	-0.7335982	0.123489	8.92E-09
T	A	0.01	-0.8541985	0.1427289	6.78E-09
G	A	0.01	-0.8541985	0.1427289	6.78E-09
C	T	0.01	-0.8541985	0.1427289	6.78E-09
C	A	0.01	-0.8541985	0.1427289	6.78E-09
CAA	C	0.01	-0.8541985	0.1427289	6.78E-09
A	G	0.01	-0.8541985	0.1427289	6.78E-09
G	A	0.01	-0.8541985	0.1427289	6.78E-09
C	A	0.01	-0.8541985	0.1427289	6.78E-09
G	A	0.01	-0.8541985	0.1427289	6.78E-09
T	C	0.01	-0.8541985	0.1427289	6.78E-09
G	C	0.01	-0.8541985	0.1427289	6.78E-09
TG	T	0.01	-0.8541985	0.1427289	6.78E-09
G	A	0.01	-0.8541985	0.1427289	6.78E-09
T	TAAAACA	0.01	-0.8541985	0.1427289	6.78E-09
A	G	0.01	-0.8541985	0.1427289	6.78E-09
C	T	0.01	-0.8541985	0.1427289	6.78E-09
T	TAA	0.01	-0.8541985	0.1427289	6.78E-09
C	T	0.01	-0.8541985	0.1427289	6.78E-09
A	G	0.01	-0.8541985	0.1427289	6.78E-09
T	C	0.01	-0.8541985	0.1427289	6.78E-09
G	T	0.01	-0.8541985	0.1427289	6.78E-09
T	G	0.02	-0.8334658	0.1372913	4.26E-09
A	C	0.02	-0.8162749	0.1380051	9.86E-09
C	A	0.02	-0.8162749	0.1380051	9.86E-09
A	C	0.02	-0.8162749	0.1380051	9.86E-09
G	C	0.02	-0.8162749	0.1380051	9.86E-09
A	G	0.02	-0.8265099	0.1368353	5.03E-09
A	C	0.02	-0.8113607	0.1363988	8.24E-09
TTGTGTGTGTGTGT	T	0.02	-0.5502209	0.09216596	7.25E-09
TA	T	0.03	-0.5715152	0.09463001	5.15E-09
C	T	0.01	1.06201	0.223	2.99E-06

T	A	0.49	0.2502099	0.05471399	7.01E-06
A	G	0.29	-0.2818658	0.0571827	1.39E-06
A	G	0.32	-0.2676114	0.05612379	2.92E-06
A	G	0.29	-0.2681076	0.05781291	5.26E-06
G	T	0.29	-0.2693063	0.05759126	4.42E-06
A	T	0.29	-0.2701855	0.05740283	3.85E-06
C	T	0.29	-0.2784296	0.05737506	1.98E-06
G	A	0.29	-0.2697765	0.05759442	4.27E-06
G	A	0.29	-0.2659822	0.05760512	5.76E-06
A	G	0.29	-0.2796928	0.05734005	1.76E-06
C	A	0.29	-0.2720462	0.05771577	3.74E-06
C	A	0.28	-0.2793787	0.05810791	2.43E-06
C	T	0.29	-0.2693532	0.05827893	5.64E-06
T	C	0.29	-0.2736543	0.0581208	3.83E-06
C	T	0.29	-0.2783778	0.05802288	2.55E-06
A	C	0.29	-0.2742109	0.0582837	3.89E-06
C	T	0.29	-0.2725857	0.05813109	4.17E-06
G	A	0.29	-0.2681601	0.05833672	6.31E-06
A	C	0.29	-0.2664544	0.05829855	7.09E-06
G	C	0.29	-0.2755154	0.05806546	3.24E-06
T	G	0.29	-0.2664544	0.05829855	7.09E-06
A	T	0.29	-0.2664544	0.05829855	7.09E-06
GA	G	0.28	-0.2739916	0.05861307	4.46E-06
G	GC	0.29	-0.2752736	0.0584707	3.84E-06
C	CA	0.29	-0.2698366	0.05828251	5.45E-06
ACTT	A	0.29	-0.2711139	0.05852357	5.38E-06
C	G	0.28	-0.2676211	0.05850247	6.96E-06
T	C	0.29	-0.2680945	0.05850474	6.72E-06
C	T	0.29	-0.266294	0.05816955	6.86E-06
C	T	0.29	-0.2659671	0.05829443	7.34E-06
A	G	0.29	-0.2675346	0.05796239	5.80E-06
G	C	0.29	-0.2780301	0.05803551	2.63E-06
C	T	0.29	-0.2688749	0.05814996	5.59E-06
G	A	0.29	-0.2698602	0.0584872	5.84E-06
C	T	0.28	-0.2730776	0.05861836	4.79E-06
G	A	0.28	-0.2731747	0.0585971	4.72E-06
T	TTATC	0.1	-0.4535056	0.09345205	1.98E-06
TGAGCACTCCA	T	0.03	0.7279862	0.1605456	8.31E-06
T	C	0.25	-0.2828969	0.06111888	5.48E-06
A	AAAGG	0.03	-0.7747629	0.1640504	3.59E-06
G	A	0.24	0.3221552	0.06442629	9.91E-07
C	G	0.03	-0.6619132	0.1453735	7.65E-06
G	A	0.04	-0.6614596	0.1417629	4.63E-06
C	T	0.05	0.6008392	0.1257007	2.76E-06
A	G	0.21	-0.3043567	0.06477114	3.99E-06
G	A	0.01	-1.242995	0.2680755	5.28E-06
C	T	0.07	-0.4653296	0.1026753	8.40E-06
C	A	0.15	0.3840035	0.07556682	6.74E-07
C	A	0.02	-0.9073412	0.1941946	4.50E-06
T	C	0.01	-1.048387	0.224295	4.47E-06

G	C	0.01	-1.260063	0.2733131	5.94E-06
T	C	0.36	0.2607187	0.05622392	5.27E-06
A	AG	0.05	0.6097703	0.1274395	2.70E-06
G	A	0.01	-1.193792	0.2644054	9.05E-06
G	A	0.01	-1.193792	0.2644054	9.05E-06
A	T	0.04	-0.6620583	0.1353332	1.65E-06
G	T	0.03	-0.7123476	0.1569767	8.18E-06
G	GT	0.33	-0.2639876	0.057818	7.24E-06
AACACACAC	A	0.14	-0.3729268	0.07790268	2.67E-06
A	G	0.02	-0.9272352	0.171331	1.34E-07
ATGTGTG	A	0.05	-0.6109215	0.1300888	4.04E-06
A	G	0.41	0.2440161	0.05417409	9.48E-06
T	A	0.4	0.2488778	0.05451005	7.24E-06
G	A	0.07	-0.4796403	0.1033916	5.23E-06
A	C	0.39	-0.2622331	0.05623747	4.70E-06
T	G	0.39	-0.258652	0.05647643	6.80E-06
A	G	0.46	-0.2546733	0.05643015	9.13E-06
G	A	0.45	-0.2489311	0.05531799	9.66E-06
G	C	0.42	-0.2615073	0.05431003	2.35E-06
C	A	0.2	-0.3126738	0.06716449	4.86E-06
A	G	0.01	-1.076523	0.2274917	3.44E-06
C	T	0.13	-0.3707374	0.08130503	7.43E-06
T	C	0.45	0.2473764	0.05450285	8.15E-06
T	C	0.06	0.5052237	0.1121645	9.48E-06
C	G	0.47	0.2464469	0.05131932	2.50E-06
G	A	0.48	-0.2688555	0.05206327	4.53E-07
A	G	0.48	-0.2729819	0.05229212	3.45E-07
T	C	0.48	-0.2725841	0.05222136	3.46E-07
A	T	0.48	-0.2804167	0.0521517	1.59E-07
C	T	0.39	-0.2396365	0.05316377	9.35E-06
T	A	0.4	-0.2408124	0.05308422	8.24E-06
A	G	0.46	-0.2647528	0.05241756	7.80E-07
AT	A	0.29	0.2551016	0.05674237	9.84E-06
T	C	0.34	-0.2609092	0.05568834	4.25E-06
A	G	0.45	-0.2512526	0.0540299	4.97E-06
T	C	0.24	-0.2802847	0.0615523	7.64E-06
A	T	0.31	-0.2741544	0.05786969	3.35E-06
T	C	0.32	-0.2586377	0.0574347	9.53E-06
T	A	0.32	-0.2594957	0.05736441	8.71E-06
T	C	0.33	-0.2588659	0.05710361	8.35E-06
C	A	0.33	-0.2615096	0.05724534	7.16E-06
G	A	0.32	-0.2639042	0.0574993	6.51E-06
T	A	0.33	-0.2588659	0.05710361	8.35E-06
GC	G	0.32	-0.2594957	0.05736441	8.71E-06
G	T	0.32	-0.2594957	0.05736441	8.71E-06
C	T	0.33	-0.2615096	0.05724534	7.16E-06
C	T	0.32	-0.2608153	0.05714769	7.30E-06
T	G	0.29	-0.2729339	0.05702523	2.69E-06
C	T	0.29	-0.2688235	0.05703346	3.74E-06
T	A	0.28	-0.2767733	0.05692877	1.90E-06

G	A	0.29	-0.2664214	0.05647877	3.68E-06
G	A	0.28	-0.2792009	0.05689596	1.54E-06
A	G	0.29	-0.2697964	0.05665526	3.00E-06
G	A	0.29	-0.2736613	0.05661052	2.16E-06
C	T	0.03	-0.8250707	0.1746088	3.55E-06
T	G	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
A	G	0.03	-0.8250707	0.1746088	3.55E-06
A	G	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
C	A	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
C	T	0.03	-0.8250707	0.1746088	3.55E-06
C	T	0.03	-0.8250707	0.1746088	3.55E-06
C	T	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
G	A	0.03	-0.8250707	0.1746088	3.55E-06
A	T	0.03	-0.8250707	0.1746088	3.55E-06
A	G	0.03	-0.8250707	0.1746088	3.55E-06
C	A	0.03	-0.8250707	0.1746088	3.55E-06
C	T	0.03	-0.8250707	0.1746088	3.55E-06
A	G	0.03	-0.8250707	0.1746088	3.55E-06
G	A	0.03	-0.7703041	0.1651445	4.66E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
C	G	0.03	-0.8250707	0.1746088	3.55E-06
T	C	0.03	-0.8250707	0.1746088	3.55E-06
C	T	0.32	0.2578306	0.0553537	4.80E-06
CA	C	0.04	0.6220688	0.1382831	9.73E-06
T	C	0.01	-0.9637875	0.1573591	3.20E-09
T	C	0.01	-1.051964	0.1658995	9.77E-10
T	G	0.01	-1.03757	0.1605643	6.15E-10
G	T	0.01	-1.03757	0.1605643	6.15E-10
GA	G	0.01	-1.03757	0.1605643	6.15E-10
T	C	0.01	-1.03757	0.1605643	6.15E-10
A	G	0.02	-0.9319579	0.1503815	2.60E-09
C	T	0.49	0.1028922	0.02263593	7.86E-06
T	C	0.03	0.3066583	0.06260539	1.59E-06
G	A	0.05	0.2242498	0.0487555	6.19E-06
C	A	0.03	0.2771259	0.06085621	7.58E-06
G	A	0.07	0.1995822	0.04305303	5.27E-06
T	C	0.01	0.4474514	0.09907162	8.93E-06
A	G	0.02	0.3613478	0.07780507	5.07E-06
G	A	0.02	0.354926	0.07569013	4.14E-06
G	A	0.05	0.2425772	0.05392967	9.68E-06
G	A	0.16	0.1379915	0.03014684	6.83E-06
A	ACTTT	0.01	0.4567183	0.09708454	3.87E-06
CT	C	0.24	0.1310095	0.02408636	1.15E-07
A	T	0.05	0.3035313	0.05175349	1.27E-08

A	C	0.02	0.3564294	0.07914591	9.46E-06
G	A	0.02	0.3693345	0.07843221	3.79E-06
G	C	0.02	0.3667142	0.07603765	2.25E-06
C	A	0.03	0.3288372	0.07084261	5.12E-06
C	T	0.02	0.3669246	0.08141595	9.32E-06
C	A	0.34	0.1008033	0.02187305	5.94E-06
G	T	0.01	0.4831955	0.1049918	6.12E-06
TG	T	0.02	0.4036411	0.08767945	6.08E-06
G	A	0.01	0.5218857	0.1078827	2.10E-06
C	A	0.01	0.4776741	0.1044265	6.92E-06
C	A	0.01	0.4776741	0.1044265	6.92E-06
G	A	0.04	0.2637034	0.0551557	2.73E-06
C	G	0.04	0.2745425	0.05463138	8.72E-07
A	T	0.03	0.2983058	0.0662609	9.52E-06
CTTT	C	0.02	0.4327946	0.08681501	1.05E-06
C	T	0.02	0.4459359	0.08393141	2.16E-07
C	T	0.04	0.2644218	0.05609358	3.70E-06
C	T	0.04	0.2916149	0.0606631	2.42E-06
G	GT	0.03	0.299118	0.06481044	5.77E-06
A	AACAC	0.02	0.40286	0.07228059	5.81E-08
G	A	0.41	0.101719	0.0226061	9.62E-06
C	CAT	0.02	0.3474942	0.07364378	3.63E-06
T	G	0.01	0.5224181	0.1088546	2.51E-06
CT	C	0.01	0.4917482	0.1037027	3.26E-06
G	T	0.09	0.1759823	0.03880286	8.22E-06
A	G	0.01	0.5928295	0.1061517	5.49E-08
C	CT	0.03	0.263996	0.05855053	9.24E-06
G	A	0.18	-0.1307172	0.02895168	8.99E-06
G	GCA	0.09	0.1886553	0.04055898	4.91E-06
C	A	0.4	0.1098211	0.02418022	7.99E-06
A	C	0.09	0.178969	0.03970514	9.29E-06
C	T	0.09	0.178969	0.03970514	9.29E-06
C	T	0.09	0.178969	0.03970514	9.29E-06
A	C	0.15	0.1583292	0.03397167	4.71E-06
A	G	0.02	0.3611958	0.07518407	2.45E-06
G	C	0.03	0.3043521	0.06568551	5.32E-06
G	T	0.17	0.130852	0.02913808	1.00E-05
C	G	0.02	0.5354907	0.08666647	2.33E-09
G	A	0.02	0.5210783	0.08794956	9.24E-09
C	T	0.02	0.4841066	0.08423309	2.36E-08
C	T	0.06	0.2191607	0.04858949	9.17E-06
C	T	0.01	0.4535685	0.08728899	3.83E-07
A	G	0.02	0.3824749	0.08297224	5.92E-06
C	T	0.02	0.4099528	0.0911776	9.76E-06
C	A	0.02	0.332848	0.07388275	9.39E-06
G	A	0.02	0.3667394	0.08148879	9.58E-06
C	T	0.02	0.3581228	0.07569792	3.43E-06
A	G	0.03	0.324057	0.0648742	1.01E-06
CCT	C	0.05	0.2355652	0.05211883	8.80E-06
T	TAA	0.02	0.2841702	0.06175877	6.14E-06

CAT	C	0.02	0.3595932	0.07755698	5.25E-06
A	G	0.02	0.423528	0.08422988	8.60E-07
G	A	0.02	0.3757903	0.07901677	3.06E-06
A	AT	0.02	0.4610685	0.08666407	2.08E-07
G	C	0.02	0.3721978	0.0790456	3.79E-06
G	GGTGTGTGTGTGT	0.02	0.3361078	0.07473927	9.73E-06
G	A	0.02	0.4562759	0.09037385	7.80E-07
C	G	0.02	0.3366974	0.07172154	4.04E-06
C	T	0.03	0.3109496	0.0672027	5.47E-06
T	C	0.05	0.2893109	0.05209562	6.44E-08
C	T	0.05	0.2893109	0.05209562	6.44E-08
TACAC	T	0.05	0.2368921	0.05163987	6.53E-06
C	G	0.18	0.1344859	0.02872299	4.27E-06
TGAC	T	0.03	0.3140259	0.06958051	9.06E-06
G	GC	0.4	0.1075975	0.02350027	6.79E-06
C	A	0.02	0.3504765	0.07447733	3.84E-06
A	T	0.01	0.502982	0.1118377	9.71E-06
GCA	G	0.01	0.502982	0.1118377	9.71E-06
C	T	0.01	0.502982	0.1118377	9.71E-06
C	A	0.04	0.2692615	0.05977172	9.40E-06
A	TCCATTCCATTCCATT	0.04	0.3057068	0.06087033	8.85E-07
C	T	0.1	0.190335	0.0389109	1.64E-06
C	T	0.01	0.4566369	0.0983656	5.11E-06
GTATA	G	0.02	-0.3713579	0.07695948	2.22E-06
A	T	0.01	-0.4212902	0.09377247	9.91E-06
C	CAA	0.02	-0.3302889	0.07336759	9.52E-06
G	A	0.05	-0.2281888	0.04996004	7.14E-06
T	C	0.07	-0.1843858	0.0408973	9.25E-06
G	A	0.07	-0.1879244	0.04102487	6.73E-06
A	C	0.02	-0.3579626	0.07951402	9.52E-06
C	T	0.02	-0.3491959	0.07442061	4.09E-06
C	T	0.02	-0.4642358	0.08925671	3.74E-07
ACACACACACACACA	T	0.02	-0.3812016	0.0847401	9.67E-06
C	T	0.01	-0.4326161	0.09274874	4.63E-06
T	C	0.03	-0.2789373	0.05959554	4.31E-06
A	G	0.01	-0.452921	0.09394632	2.27E-06
T	C	0.01	-0.513478	0.09972189	4.82E-07
CCT	C	0.01	-0.4719722	0.1031906	6.94E-06
A	AAAAT	0.15	-0.1561844	0.03192109	1.63E-06
T	C	0.03	-0.3118468	0.06660347	4.27E-06
A	G	0.02	-0.3205646	0.06810519	3.82E-06
C	CCT	0.01	-0.4241427	0.09257108	6.70E-06
G	GT	0.01	-0.4241427	0.09257108	6.70E-06
C	G	0.06	-0.2113963	0.04473538	3.51E-06
C	T	0.05	-0.232095	0.047567	1.73E-06
T	TTTG	0.05	-0.232095	0.047567	1.73E-06
C	T	0.11	-0.1442377	0.0317323	7.86E-06
G	GT	0.02	-0.3811092	0.07485849	6.37E-07
T	C	0.02	-0.3812976	0.0802516	3.12E-06
C	T	0.02	-0.3812976	0.0802516	3.12E-06

GA	G	0.16	-0.1396296	0.02921963	2.76E-06
G	T	0.02	-0.5208553	0.08256756	1.14E-09
C	T	0.02	-0.5208553	0.08256756	1.14E-09
A	AT	0.02	-0.5175652	0.0773399	1.28E-10
C	T	0.02	-0.410634	0.07237014	3.46E-08
C	T	0.01	-0.4074489	0.08910948	6.98E-06
G	C	0.04	-0.2491227	0.05272182	3.52E-06
G	C	0.01	-0.4729728	0.1029214	6.30E-06
A	AAAAAG	0.49	-0.0957927	0.01998655	2.58E-06
T	C	0.01	-0.4463472	0.09822669	7.91E-06
A	T	0.02	-0.4044985	0.08126264	1.09E-06
C	T	0.15	-0.1343086	0.02983177	9.51E-06
C	T	0.01	-0.4447241	0.09102401	1.68E-06
T	A	0.19	-0.1188241	0.02616492	8.01E-06
C	G	0.07	-0.2091153	0.04250207	1.43E-06
A	G	0.07	-0.2128578	0.04184984	6.52E-07
T	A	0.07	-0.2169124	0.04199743	4.46E-07
G	A	0.01	-0.4854857	0.1067894	7.84E-06
G	T	0.01	-0.4854857	0.1067894	7.84E-06
C	T	0.01	-0.4854857	0.1067894	7.84E-06
G	A	0.01	-0.4854857	0.1067894	7.84E-06
A	G	0.03	-0.3124303	0.06340161	1.38E-06
G	A	0.03	-0.2727295	0.06037479	8.90E-06
C	T	0.03	-0.3143042	0.06353708	1.26E-06
TTTCCTTCCTTCC	T	0.06	-0.2148802	0.04204134	5.78E-07
G	T	0.17	-0.1353026	0.0275504	1.49E-06
A	T	0.17	-0.1255524	0.02773725	8.55E-06
T	C	0.17	-0.1350353	0.02775851	1.85E-06
C	T	0.17	-0.1277518	0.0283104	9.09E-06
T	C	0.17	-0.1363915	0.02787858	1.63E-06
T	A	0.17	-0.1289427	0.02835148	7.78E-06
T	C	0.17	-0.1350549	0.02821765	2.66E-06
A	G	0.17	-0.1301378	0.02792997	4.73E-06
AG	A	0.01	-0.4346555	0.09675858	9.94E-06
C	T	0.02	-0.3713301	0.08265626	9.92E-06
G	C	0.08	-0.2046108	0.03953139	4.23E-07
T	C	0.08	-0.2053713	0.03979512	4.55E-07
A	G	0.08	-0.1914172	0.03911084	1.62E-06
CTCTATCTATCTA	C	0.08	-0.1927321	0.0391628	1.42E-06
T	A	0.08	-0.1848666	0.0386732	2.74E-06
T	C	0.08	-0.1943231	0.0391788	1.19E-06
A	G	0.08	-0.1943231	0.0391788	1.19E-06
A	C	0.07	-0.1925891	0.04016133	2.55E-06
G	C	0.08	-0.181774	0.0395198	6.19E-06
C	T	0.08	-0.181774	0.0395198	6.19E-06
T	G	0.07	-0.1925891	0.04016133	2.55E-06
C	T	0.08	-0.181774	0.0395198	6.19E-06
C	T	0.08	-0.178858	0.03944287	8.25E-06
C	T	0.07	-0.1925891	0.04016133	2.55E-06
T	C	0.08	-0.1817544	0.03951186	6.18E-06

G	A	0.08	-0.1756921	0.039114	9.95E-06
C	CA	0.08	-0.1781603	0.03940753	8.76E-06
T	G	0.08	-0.1776288	0.03938616	9.19E-06
T	C	0.08	-0.1817544	0.03951186	6.18E-06
T	A	0.08	-0.1849521	0.03964625	4.62E-06
T	C	0.07	-0.1882569	0.03970312	3.26E-06
A	G	0.07	-0.1994915	0.04036492	1.29E-06
G	A	0.08	-0.1849716	0.03965411	4.63E-06
C	T	0.08	-0.1855786	0.03965524	4.32E-06
C	T	0.08	-0.1820118	0.03957586	6.20E-06
T	A	0.08	-0.1849521	0.03964625	4.62E-06
T	C	0.08	-0.1811489	0.03954493	6.72E-06
CTTTCT	C	0.08	-0.1842795	0.03968683	5.09E-06
T	C	0.08	-0.184595	0.03965503	4.83E-06
T	G	0.07	-0.1956215	0.04030565	1.95E-06
C	T	0.08	-0.1845759	0.03964719	4.82E-06
A	G	0.08	-0.184595	0.03965503	4.83E-06
GT	G	0.08	-0.1845759	0.03964719	4.82E-06
G	C	0.08	-0.1845759	0.03964719	4.82E-06
G	T	0.08	-0.1845759	0.03964719	4.82E-06
C	T	0.08	-0.1816336	0.03957636	6.47E-06
T	C	0.08	-0.1845759	0.03964719	4.82E-06
A	G	0.08	-0.1845759	0.03964719	4.82E-06
G	A	0.08	-0.184595	0.03965503	4.83E-06
T	C	0.08	-0.1845759	0.03964719	4.82E-06
C	T	0.07	-0.1956215	0.04030565	1.95E-06
C	T	0.08	-0.184595	0.03965503	4.83E-06
A	G	0.08	-0.184595	0.03965503	4.83E-06
T	C	0.08	-0.184595	0.03965503	4.83E-06
T	C	0.07	-0.1956215	0.04030565	1.95E-06
C	T	0.08	-0.1856177	0.03985412	4.78E-06
G	C	0.08	-0.184595	0.03965503	4.83E-06
C	T	0.08	-0.184595	0.03965503	4.83E-06
G	GTAC	0.08	-0.1816452	0.03958053	6.48E-06
T	C	0.07	-0.1956215	0.04030565	1.95E-06
G	A	0.07	-0.1956215	0.04030565	1.95E-06
T	G	0.08	-0.1845759	0.03964719	4.82E-06
C	T	0.07	-0.1956215	0.04030565	1.95E-06
A	G	0.08	-0.1819147	0.03892314	4.44E-06
G	A	0.08	-0.1819147	0.03892314	4.44E-06
C	T	0.08	-0.1884889	0.03937171	2.65E-06
A	G	0.08	-0.1842404	0.03898021	3.50E-06
AAAT	A	0.08	-0.1884889	0.03937171	2.65E-06
T	C	0.08	-0.1884889	0.03937171	2.65E-06
G	A	0.07	-0.2025928	0.04008016	7.58E-07
G	A	0.07	-0.1902448	0.03977195	2.70E-06
G	A	0.08	-0.1884783	0.03936784	2.65E-06
T	C	0.08	-0.1989656	0.0399573	1.08E-06
C	G	0.07	-0.1795159	0.03977292	9.05E-06
A	T	0.08	-0.1819147	0.03892314	4.44E-06

G	A	0.08	-0.1899322	0.03923139	2.07E-06
G	A	0.07	-0.1861482	0.04130984	9.35E-06
G	A	0.08	-0.1914185	0.03943605	1.95E-06
C	G	0.08	-0.1914355	0.03944332	1.95E-06
G	A	0.07	-0.1889006	0.03971728	3.06E-06
A	G	0.08	-0.1914355	0.03944332	1.95E-06
A	C	0.08	-0.1896299	0.03895045	1.82E-06
GA	G	0.07	-0.1889006	0.03971728	3.06E-06
G	A	0.08	-0.1914355	0.03944332	1.95E-06
TAA	T	0.08	-0.1914355	0.03944332	1.95E-06
A	G	0.08	-0.1819147	0.03892314	4.44E-06
G	A	0.08	-0.1819147	0.03892314	4.44E-06
A	G	0.08	-0.1877542	0.03930161	2.77E-06
G	A	0.08	-0.1819147	0.03892314	4.44E-06
A	G	0.07	-0.2025928	0.04008016	7.58E-07
T	A	0.08	-0.1914355	0.03944332	1.95E-06
C	A	0.08	-0.1819147	0.03892314	4.44E-06
A	T	0.07	-0.2025928	0.04008016	7.58E-07
AATTAAT	A	0.02	-0.3532404	0.07554363	4.40E-06
A	T	0.03	-0.2973379	0.06559429	8.31E-06
G	A	0.18	-0.1234981	0.02744876	9.63E-06
G	A	0.02	-0.3899559	0.08675397	9.82E-06
C	T	0.04	-0.285178	0.05700448	9.71E-07
GTT	G	0.05	-0.2020399	0.04278328	3.56E-06
T	G	0.07	-0.1981951	0.04288454	5.61E-06
G	A	0.07	-0.1928331	0.04021723	2.56E-06
C	G	0.02	-0.3588637	0.0793784	8.76E-06
G	A	0.3	-0.1056832	0.02301382	6.40E-06
AGTGT	A	0.04	-0.2758863	0.05910692	4.56E-06
G	A	0.02	-0.4263339	0.08786788	1.97E-06
G	A	0.04	-0.2420198	0.05312585	7.52E-06
C	T	0.03	-0.3094103	0.06761258	6.86E-06
AGGTAGCCTGGCACC	C	0.01	-0.5408331	0.1011917	1.85E-07
C	G	0.01	-0.4597971	0.09832173	4.39E-06
T	G	0.02	-0.3517058	0.07722862	7.57E-06
G	A	0.43	-0.1032845	0.02189243	3.64E-06
A	T	0.44	-0.0988451	0.02196797	9.62E-06
C	T	0.18	-0.1299023	0.02685594	2.11E-06
C	CTGAG	0.03	-0.2998115	0.06028352	1.12E-06
A	G	0.02	-0.4047406	0.08981952	9.35E-06
T	TACACACACAC	0.01	-0.4645335	0.09849978	3.67E-06
GT	G	0.01	-0.4972744	0.09253216	1.59E-07
T	C	0.04	-0.2489439	0.05027876	1.24E-06
CG	C	0.04	-0.2392978	0.05318306	9.62E-06
T	A	0.04	-0.2392978	0.05318306	9.62E-06
C	T	0.04	-0.2614265	0.05419168	2.24E-06
T	C	0.04	-0.2741745	0.05496335	1.04E-06
G	A	0.04	-0.2464519	0.05359561	6.22E-06
G	T	0.04	-0.2464519	0.05359561	6.22E-06
C	G	0.04	-0.268657	0.05467235	1.47E-06

T	C	0.04	-0.2715504	0.05380106	7.85E-07
T	A	0.04	-0.2715504	0.05380106	7.85E-07
G	A	0.04	-0.268657	0.05467235	1.47E-06
A	C	0.04	-0.268657	0.05467235	1.47E-06
C	T	0.04	-0.2770392	0.05508119	8.54E-07
A	G	0.04	-0.2715504	0.05380106	7.85E-07
T	C	0.04	-0.2715504	0.05380106	7.85E-07
C	T	0.04	-0.2715504	0.05380106	7.85E-07
A	G	0.04	-0.2715504	0.05380106	7.85E-07
A	G	0.04	-0.2715504	0.05380106	7.85E-07
A	G	0.04	-0.2715504	0.05380106	7.85E-07
G	A	0.04	-0.268657	0.05467235	1.47E-06
C	A	0.04	-0.2715504	0.05380106	7.85E-07
T	C	0.04	-0.2715504	0.05380106	7.85E-07
G	GA	0.04	-0.2582402	0.05580998	5.47E-06
G	T	0.04	-0.268657	0.05467235	1.47E-06
CT	C	0.02	-0.3471727	0.073354	3.40E-06
C	A	0.04	-0.268657	0.05467235	1.47E-06
G	A	0.04	-0.268657	0.05467235	1.47E-06
A	G	0.04	-0.2715504	0.05380106	7.85E-07
C	T	0.04	-0.2715504	0.05380106	7.85E-07
G	GGACTGACTCCC	0.27	-0.1130126	0.02418718	4.47E-06
G	A	0.02	-0.3520231	0.07465325	3.68E-06
A	AAC	0.03	-0.2845263	0.06111299	4.81E-06
C	T	0.01	-0.5474253	0.102686	1.97E-07
T	A	0.01	-0.4716763	0.1029738	6.73E-06
G	A	0.01	-0.4716763	0.1029738	6.73E-06
A	AAAAAG	0.12	-0.1614724	0.03454983	4.44E-06
C	T	0.01	-0.4335819	0.09505261	7.33E-06
A	G	0.03	-0.3044741	0.06707998	8.09E-06
C	CTGTGTG	0.01	-0.4802623	0.09631332	1.05E-06
T	G	0.02	-0.3953794	0.08768862	9.23E-06
T	TGTGC	0.01	-0.4932469	0.1022788	2.25E-06
C	T	0.05	-0.2201276	0.04846347	7.98E-06
G	A	0.05	-0.2261926	0.0486652	4.99E-06
C	T	0.06	-0.2158509	0.04686471	6.02E-06
A	T	0.06	-0.2158509	0.04686471	6.02E-06
C	T	0.06	-0.2158509	0.04686471	6.02E-06
C	T	0.06	-0.2158509	0.04686471	6.02E-06
T	C	0.06	-0.2158509	0.04686471	6.02E-06
G	A	0.06	-0.2158509	0.04686471	6.02E-06
A	G	0.06	-0.2053793	0.04489968	6.93E-06
A	G	0.06	-0.2053793	0.04489968	6.93E-06
C	T	0.06	-0.2101054	0.04513949	4.84E-06
C	T	0.06	-0.2053793	0.04489968	6.93E-06
C	A	0.06	-0.2088798	0.04503779	5.22E-06
C	T	0.01	-0.4631808	0.101164	6.79E-06
G	A	0.02	-0.4210631	0.08669884	1.93E-06
C	T	0.02	-0.4210631	0.08669884	1.93E-06
A	AACACAC	0.02	-0.4007738	0.07960135	8.34E-07

G	GCACACA	0.19	-0.1432552	0.03023943	3.33E-06
T	C	0.03	-0.3157211	0.06343948	1.10E-06
C	G	0.03	-0.3020651	0.06074925	1.12E-06
T	A	0.03	-0.3019463	0.05955467	7.04E-07
GGA	G	0.03	-0.3221318	0.06171524	3.42E-07
C	T	0.02	-0.3730865	0.08148692	6.80E-06
C	CTTCTTTCTTTCT	0.11	-0.1616526	0.03458791	4.44E-06
A	G	0.04	-0.2971784	0.05766165	4.71E-07
C	T	0.04	-0.2652959	0.05678426	4.47E-06
A	T	0.07	-0.2013027	0.0444871	8.61E-06
C	T	0.03	-0.3042356	0.06114547	1.10E-06
G	T	0.03	-0.2908266	0.06197782	4.08E-06
A	G	0.03	-0.3748378	0.06769752	7.00E-08
T	A	0.03	-0.2908266	0.06197782	4.08E-06
T	G	0.02	-0.3145432	0.0692749	8.04E-06
T	C	0.5	0.09296156	0.0204143	7.58E-06
TC	T	0.47	0.09399742	0.02076174	8.51E-06
CAAT	C	0.49	-0.1021507	0.0205838	1.17E-06
CT	C	0.06	-0.2272596	0.04568212	1.11E-06
T	C	0.02	-0.3989048	0.08640247	5.73E-06
C	T	0.03	-0.2753943	0.059204	4.90E-06
TTTTCTTTCTTTCTTTC	T	0.03	-0.312707	0.06772467	5.72E-06
CTGTGTGTGTG	C	0.01	-0.4184527	0.09208919	7.91E-06
C	A	0.03	-0.2921191	0.05686175	5.10E-07
GC	G	0.04	-0.2685469	0.05502266	1.72E-06
A	T	0.03	-0.2749605	0.0565378	1.87E-06
T	A	0.04	-0.2828108	0.05635486	9.01E-07
C	T	0.03	-0.3012903	0.05817817	4.17E-07
G	A	0.03	-0.3012903	0.05817817	4.17E-07
C	A	0.03	-0.3012903	0.05817817	4.17E-07
C	T	0.03	-0.3012903	0.05817817	4.17E-07
G	A	0.03	-0.3012903	0.05817817	4.17E-07
AC	A	0.03	-0.2908861	0.0575951	7.73E-07
G	A	0.03	-0.3012903	0.05817817	4.17E-07
C	A	0.03	-0.3112732	0.05869426	2.26E-07
C	T	0.01	-0.4622556	0.09306721	1.15E-06
TTG	T	0.05	-0.22741	0.04782481	3.07E-06
C	T	0.01	-0.4563328	0.09662112	3.55E-06
A	T	0.01	-0.4563328	0.09662112	3.55E-06
C	CAAA	0.03	-0.2856928	0.05918743	2.21E-06
T	G	0.02	-0.3730568	0.07936432	3.93E-06
G	A	0.01	-0.4380056	0.0912436	2.50E-06
G	A	0.36	-0.1001764	0.02184493	6.58E-06
C	T	0.37	-0.101388	0.02177205	4.79E-06
C	T	0.36	-0.1026071	0.02172524	3.55E-06
A	C	0.03	-0.3390668	0.06940421	1.68E-06
G	A	0.03	-0.3390668	0.06940421	1.68E-06
C	G	0.02	-0.432303	0.08669125	1.05E-06
A	T	0.01	-0.439005	0.09622923	7.31E-06
G	A	0.38	-0.2700659	0.05664984	3.02E-06

A	AGTGTGT	0.12	0.402765	0.08764952	6.53E-06
C	T	0.06	0.5209143	0.1120369	5.13E-06
G	A	0.01	1.290298	0.2703301	2.95E-06
A	G	0.12	0.3974777	0.08449981	4.03E-06
CA	C	0.28	-0.3084658	0.06134772	9.05E-07
C	G	0.11	-0.4482057	0.09119452	1.54E-06
TG	T	0.06	0.5347653	0.1175451	7.99E-06
G	A	0.06	0.5381843	0.1168183	6.20E-06
T	C	0.06	0.5309999	0.1173089	8.83E-06
G	A	0.06	0.5381843	0.1168183	6.20E-06
C	T	0.06	0.5381843	0.1168183	6.20E-06
CAAAT	C	0.06	0.5347653	0.1175451	7.99E-06
C	CA	0.08	0.4522882	0.1002125	9.35E-06
C	T	0.05	0.6130237	0.1334101	6.54E-06
T	G	0.05	0.622297	0.1366264	7.80E-06
T	TTTTTG	0.03	0.7077071	0.1533655	6.00E-06
C	T	0.05	0.622297	0.1366264	7.80E-06
AAAG	A	0.05	0.622297	0.1366264	7.80E-06
C	T	0.05	0.622297	0.1366264	7.80E-06
A	T	0.05	0.622297	0.1366264	7.80E-06
C	CAATAAT	0.02	1.124389	0.2276383	1.37E-06
T	C	0.01	1.252775	0.2694241	5.13E-06
C	A	0.01	1.121752	0.2492882	9.92E-06
G	A	0.01	1.121752	0.2492882	9.92E-06
C	A	0.01	1.121752	0.2492882	9.92E-06
C	A	0.02	1.131269	0.214113	2.65E-07
T	C	0.03	0.7485419	0.154745	2.20E-06
T	C	0.38	0.2489842	0.05457824	7.56E-06
G	A	0.02	-0.9614187	0.2091506	6.49E-06
C	G	0.14	-0.3637271	0.08041449	8.96E-06
AT	A	0.01	1.224531	0.2629539	4.97E-06
G	T	0.4	0.2460954	0.05440034	8.94E-06
T	G	0.01	1.085487	0.23828	7.78E-06
A	AAT	0.06	-0.5366811	0.1149349	4.70E-06
A	C	0.15	-0.4012771	0.07925127	7.66E-07
T	G	0.1	0.4562731	0.09158823	1.12E-06
C	CA	0.1	0.4178723	0.09066392	6.14E-06
G	T	0.11	0.4756044	0.08933976	2.18E-07
A	G	0.02	-0.9357995	0.2066335	8.74E-06
T	C	0.05	-0.5770252	0.1224117	3.85E-06
GGTGT	G	0.06	-0.5351139	0.1179174	8.40E-06
C	A	0.11	-0.4165847	0.08710667	2.82E-06
A	T	0.07	-0.4538185	0.0976189	5.15E-06
T	C	0.38	-0.2984443	0.0559593	2.08E-07
A	G	0.4	-0.2634485	0.05447454	2.21E-06
A	G	0.04	0.6280954	0.1384798	8.48E-06
C	T	0.02	-0.7792531	0.1732372	9.99E-06
A	G	0.45	0.260324	0.05675437	6.78E-06
T	G	0.23	0.303804	0.0658775	6.07E-06
A	G	0.23	0.3134541	0.06625153	3.56E-06

A	G	0.16	-0.321744	0.07058919	7.69E-06
G	A	0.46	0.2478392	0.05302772	4.61E-06
T	TCA	0.45	0.2424329	0.0528286	6.71E-06
T	G	0.49	0.2540797	0.05279212	2.46E-06
T	C	0.49	0.2473094	0.05337383	5.51E-06
A	G	0.23	0.227559	0.03773322	5.79E-09
G	A	0.38	-0.1805885	0.03025268	8.50E-09
G	A	0.02	-0.3979766	0.08845376	9.63E-06
AT	A	0.16	-0.1359142	0.02975591	7.13E-06
G	A	0.07	-0.1920975	0.04171512	6.04E-06
C	A	0.06	-0.2014695	0.04353599	5.46E-06
A	AT	0.07	-0.2094048	0.04313354	1.94E-06
G	T	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
C	G	0.07	-0.1990497	0.04250368	4.26E-06
C	T	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
G	GC	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.2032693	0.04265694	2.93E-06
T	C	0.07	-0.2032693	0.04265694	2.93E-06
C	T	0.07	-0.1990497	0.04250368	4.26E-06
G	T	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
C	T	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
T	G	0.07	-0.1990497	0.04250368	4.26E-06
C	G	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
G	T	0.07	-0.1990497	0.04250368	4.26E-06
TTTCA	T	0.07	-0.1990497	0.04250368	4.26E-06
C	G	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
G	GTC	0.07	-0.1990497	0.04250368	4.26E-06
G	C	0.07	-0.1990497	0.04250368	4.26E-06
G	C	0.07	-0.2025778	0.0426405	3.13E-06
C	T	0.07	-0.2025778	0.0426405	3.13E-06
TAG	T	0.07	-0.1990497	0.04250368	4.26E-06
C	T	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
C	G	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
G	A	0.07	-0.1953135	0.04235352	5.87E-06

C	T	0.07	-0.1990497	0.04250368	4.26E-06
T	A	0.07	-0.1925427	0.04268348	9.15E-06
G	A	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
T	A	0.07	-0.1990497	0.04250368	4.26E-06
T	A	0.07	-0.1990497	0.04250368	4.26E-06
G	C	0.07	-0.1990497	0.04250368	4.26E-06
A	T	0.07	-0.1990497	0.04250368	4.26E-06
G	C	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
A	G	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
T	G	0.07	-0.1990497	0.04250368	4.26E-06
C	A	0.07	-0.1990497	0.04250368	4.26E-06
C	T	0.07	-0.2033988	0.04261549	2.83E-06
G	T	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
T	C	0.07	-0.1990497	0.04250368	4.26E-06
C	T	0.07	-0.1990497	0.04250368	4.26E-06
C	A	0.07	-0.1990497	0.04250368	4.26E-06
ATCTG	A	0.01	-0.6714233	0.1001786	1.21E-10
T	C	0.01	-0.5165456	0.1073508	2.37E-06
G	GAAGC	0.12	-0.153913	0.03371242	7.20E-06
A	G	0.09	-0.168019	0.03663541	6.57E-06
C	T	0.09	-0.1807963	0.0372461	1.95E-06
T	C	0.09	-0.1718568	0.03705947	5.23E-06
G	A	0.09	-0.1691607	0.03725701	8.04E-06
G	A	0.09	-0.1691607	0.03725701	8.04E-06
C	CA	0.09	-0.1861203	0.03804073	1.63E-06
G	A	0.09	-0.1691607	0.03725701	8.04E-06
C	T	0.09	-0.1712758	0.03733398	6.52E-06
T	C	0.09	-0.1796329	0.03761821	2.80E-06
TG	T	0.08	-0.1868689	0.03821794	1.65E-06
T	C	0.08	-0.1929113	0.03805531	7.07E-07
T	G	0.08	-0.1929113	0.03805531	7.07E-07
A	G	0.09	-0.191546	0.03672795	3.49E-07
C	G	0.08	-0.1911659	0.03855882	1.20E-06
C	CT	0.08	-0.1810939	0.03965715	7.17E-06
A	G	0.08	-0.1899799	0.03795573	9.59E-07
GGA	G	0.11	-0.200547	0.03667608	9.94E-08
G	C	0.08	-0.1879651	0.03815723	1.39E-06
C	T	0.09	-0.191546	0.03672795	3.49E-07
GA	G	0.08	-0.1899799	0.03795573	9.59E-07
G	C	0.08	-0.1929113	0.03805531	7.07E-07
C	T	0.08	-0.1845979	0.03812083	2.06E-06
T	C	0.08	-0.1845979	0.03812083	2.06E-06
A	G	0.08	-0.1845979	0.03812083	2.06E-06
T	C	0.08	-0.1785802	0.03827393	4.60E-06
A	G	0.08	-0.1780756	0.03826532	4.86E-06
C	T	0.08	-0.1875072	0.03822138	1.53E-06

G	A	0.08	-0.1875072	0.03822138	1.53E-06
C	G	0.08	-0.1771823	0.03816461	5.11E-06
G	T	0.08	-0.1797999	0.03794877	3.32E-06
C	T	0.08	-0.1797999	0.03794877	3.32E-06
G	A	0.08	-0.1826195	0.0380451	2.50E-06
GCACACACACACA	G	0.06	-0.2360409	0.04662707	7.31E-07
G	A	0.08	-0.1754782	0.03862242	7.93E-06
G	A	0.08	-0.1797999	0.03794877	3.32E-06
C	T	0.08	-0.1881401	0.03819759	1.40E-06
G	A	0.09	-0.1848848	0.0372326	1.16E-06
G	A	0.08	-0.1812545	0.03801854	2.90E-06
T	G	0.08	-0.1782701	0.03791578	3.91E-06
A	AAAAAT	0.37	-0.1041526	0.02198797	3.34E-06
G	A	0.06	-0.2076621	0.04619612	9.80E-06
A	AT	0.39	-0.102002	0.02263959	9.37E-06
C	T	0.4	-0.1035976	0.02247346	5.91E-06
C	T	0.01	-0.4644126	0.09076678	5.64E-07
A	G	0.01	-0.4644126	0.09076678	5.64E-07
A	AAAGG	0.03	-0.3304818	0.06627503	1.05E-06
G	A	0.03	-0.296243	0.06496971	7.38E-06
C	T	0.02	-0.3803987	0.07279043	3.31E-07
G	A	0.03	-0.2960245	0.06375553	5.09E-06
G	A	0.01	-0.4784983	0.1008906	3.25E-06
A	G	0.01	-0.5546503	0.1080853	5.24E-07
G	T	0.01	-0.5546503	0.1080853	5.24E-07
G	A	0.01	-0.5546503	0.1080853	5.24E-07
G	A	0.01	-0.5546503	0.1080853	5.24E-07
T	C	0.01	-0.5546503	0.1080853	5.24E-07
G	T	0.01	-0.5546503	0.1080853	5.24E-07
G	A	0.01	-0.5749816	0.1018591	4.02E-08
ATG	A	0.06	-0.2108788	0.04567425	5.72E-06
G	A	0.02	-0.4209214	0.0891511	3.58E-06
TCTTCAA	T	0.01	-0.4396576	0.09402878	4.40E-06
A	G	0.04	-0.2916889	0.0593401	1.46E-06
C	T	0.03	-0.2968402	0.06260702	3.27E-06
T	TTTTATTTA	0.2	-0.1323258	0.02832485	4.48E-06
T	C	0.07	-0.1969362	0.04236934	4.98E-06
C	G	0.05	-0.2244361	0.04824571	4.90E-06
G	C	0.06	-0.2293333	0.04673451	1.52E-06
A	G	0.06	-0.2070277	0.04401362	3.88E-06
C	G	0.06	-0.2293333	0.04673451	1.52E-06
C	T	0.28	0.1030808	0.02277444	8.56E-06
T	TG	0.02	-0.3114694	0.06725464	5.37E-06
A	G	0.01	-0.4236198	0.09192774	5.95E-06
A	G	0.01	-0.4236198	0.09192774	5.95E-06
A	C	0.02	-0.3782243	0.08288332	7.27E-06
G	A	0.02	-0.4009326	0.08723755	6.29E-06
G	A	0.02	-0.4009326	0.08723755	6.29E-06
C	T	0.02	-0.4009326	0.08723755	6.29E-06
G	A	0.01	-0.4811284	0.105083	6.79E-06

C	T	0.01	-0.4973088	0.1019377	1.74E-06
G	A	0.13	-0.1477858	0.03217728	6.38E-06
T	C	0.02	-0.3940524	0.08610782	6.86E-06
G	T	0.02	-0.3940524	0.08610782	6.86E-06
T	C	0.02	-0.3788933	0.0795163	2.94E-06
G	A	0.02	-0.4333522	0.07671892	3.95E-08
G	T	0.02	-0.4065541	0.08711139	4.58E-06
C	T	0.07	-0.1990823	0.04181836	2.99E-06
G	A	0.08	-0.1888496	0.04151368	7.74E-06
A	G	0.18	0.1332779	0.02794049	2.87E-06
G	C	0.02	-0.4227016	0.08853648	2.81E-06
C	CACACACAG	0.01	-0.52397	0.1070318	1.61E-06
G	A	0.02	-0.4407243	0.08518984	4.28E-07
A	T	0.02	-0.3918983	0.07341055	1.90E-07
C	T	0.03	-0.2800373	0.06170612	8.12E-06
G	GT	0.23	-0.1274216	0.02524838	7.87E-07
G	GA	0.01	-0.4256005	0.09464804	9.74E-06
C	T	0.07	-0.2016956	0.04380304	6.05E-06
A	G	0.07	-0.1984371	0.04235768	4.22E-06
T	C	0.07	-0.193682	0.04220909	6.50E-06
C	CCTTGT	0.07	-0.2023133	0.04168985	1.96E-06
A	G	0.06	-0.2137922	0.04351125	1.48E-06
A	G	0.07	-0.2023133	0.04168985	1.96E-06
C	CTAG	0.07	-0.2023133	0.04168985	1.96E-06
T	C	0.03	-0.305696	0.06668398	6.62E-06
A	G	0.03	-0.3074483	0.06503351	3.48E-06
G	A	0.06	-0.2150307	0.04752092	8.61E-06
T	C	0.03	-0.290154	0.06090922	2.95E-06
T	A	0.01	-0.4851032	0.1048817	5.52E-06
G	A	0.02	-0.3905254	0.08372878	4.63E-06
A	G	0.08	-0.1920585	0.04051976	3.29E-06
T	A	0.02	-0.3616144	0.08014243	9.10E-06
G	GAGAGAGAAAGAA	0.01	-0.5352461	0.1081298	1.24E-06
T	C	0.01	-0.4235964	0.08981193	3.66E-06
C	T	0.03	-0.3222522	0.07016262	6.37E-06
G	A	0.03	-0.2581126	0.05746796	9.97E-06
G	T	0.01	-0.4820709	0.1068098	9.06E-06
A	T	0.01	-0.5287499	0.1072897	1.38E-06
C	T	0.04	-0.254367	0.05359586	3.20E-06
AT	A	0.04	-0.2681038	0.05863634	6.98E-06
A	G	0.03	-0.299202	0.06336418	3.57E-06
T	C	0.19	-0.1239759	0.02726966	7.83E-06
C	T	0.19	-0.1228617	0.02729892	9.58E-06
T	C	0.19	-0.1305258	0.0275692	3.37E-06
A	G	0.19	-0.1355795	0.02688203	8.00E-07
C	G	0.19	-0.131533	0.02743486	2.57E-06
T	C	0.19	-0.1340387	0.02771432	2.11E-06
C	T	0.18	-0.1366483	0.02836639	2.31E-06
C	T	0.18	-0.1376679	0.02852091	2.21E-06
C	T	0.18	-0.1367546	0.02836211	2.26E-06

C	T	0.18	-0.1457398	0.02840836	5.28E-07
T	G	0.18	-0.1356659	0.02848152	2.96E-06
A	C	0.13	0.154132	0.03417467	9.19E-06
A	G	0.11	0.1728244	0.03458668	9.98E-07
T	C	0.01	0.5570205	0.11111107	9.24E-07
A	G	0.01	0.5395417	0.11469	3.87E-06
A	G	0.03	0.373022	0.06837148	1.06E-07
G	C	0.01	0.5151626	0.1095169	3.87E-06
TA	T	0.09	0.1928806	0.03882798	1.15E-06
G	GA	0.13	0.153098	0.03368048	7.86E-06
G	C	0.14	0.1529586	0.03274969	4.50E-06
AGAG	A	0.42	0.1023728	0.0222759	6.30E-06
G	A	0.48	0.1085199	0.02252573	2.31E-06
A	G	0.02	0.4057773	0.08811808	6.04E-06
C	A	0.02	0.4057773	0.08811808	6.04E-06
A	G	0.02	0.4057773	0.08811808	6.04E-06
C	T	0.02	0.4057773	0.08811808	6.04E-06
T	A	0.02	0.4157335	0.09185229	8.56E-06
T	C	0.02	0.4057773	0.08811808	6.04E-06
C	T	0.02	0.436975	0.09002441	1.95E-06
C	T	0.02	0.436975	0.09002441	1.95E-06
C	T	0.02	0.4501655	0.09401469	2.64E-06
G	T	0.02	0.4501655	0.09401469	2.64E-06
G	A	0.02	0.4501655	0.09401469	2.64E-06
T	C	0.02	0.4501655	0.09401469	2.64E-06
C	G	0.02	0.436975	0.09002441	1.95E-06
G	T	0.02	0.4501655	0.09401469	2.64E-06
G	A	0.02	0.4501655	0.09401469	2.64E-06
T	C	0.02	0.4501655	0.09401469	2.64E-06
G	A	0.02	0.4501655	0.09401469	2.64E-06
A	C	0.02	0.436975	0.09002441	1.95E-06
C	T	0.02	0.4501655	0.09401469	2.64E-06
C	G	0.02	0.4501655	0.09401469	2.64E-06
T	C	0.02	0.436975	0.09002441	1.95E-06
C	T	0.02	0.4501655	0.09401469	2.64E-06
A	G	0.02	0.4501655	0.09401469	2.64E-06
C	T	0.02	0.4895169	0.0926916	2.53E-07
T	C	0.02	0.436975	0.09002441	1.95E-06
A	C	0.02	0.3910891	0.08458799	5.56E-06
TTTTATTATTTA	T	0.02	0.4323173	0.08928388	2.06E-06
C	G	0.02	0.436975	0.09002441	1.95E-06
C	A	0.01	0.489559	0.09643889	6.83E-07
T	G	0.02	0.4501655	0.09401469	2.64E-06
T	C	0.02	0.4256863	0.08786612	2.03E-06
T	TC	0.01	0.4523982	0.09219228	1.52E-06
A	G	0.01	0.4922443	0.09542196	4.60E-07
T	G	0.01	0.5041809	0.0975602	4.40E-07
G	C	0.01	0.5041809	0.0975602	4.40E-07
A	G	0.01	0.4705945	0.09072432	4.00E-07
T	TACAC	0.01	0.4626499	0.1025543	9.14E-06

A	G	0.01	0.5041809	0.0975602	4.40E-07
C	A	0.01	0.5041809	0.0975602	4.40E-07
A	G	0.02	0.4256863	0.08786612	2.03E-06
T	C	0.02	0.4708233	0.09135483	4.71E-07
G	A	0.02	0.4501655	0.09401469	2.64E-06
AACACACACAC	A	0.03	0.3166731	0.06275457	7.89E-07
G	T	0.02	0.3453723	0.07388257	4.42E-06
G	A	0.03	0.3416094	0.07244505	3.68E-06
G	A	0.01	0.6122697	0.09867152	2.01E-09
G	T	0.02	0.5625301	0.09613978	1.37E-08
G	C	0.02	0.5625301	0.09613978	1.37E-08
GA	G	0.02	0.5625301	0.09613978	1.37E-08
A	C	0.02	0.5625301	0.09613978	1.37E-08
A	G	0.02	0.5248541	0.09395701	5.45E-08
C	A	0.01	0.5952996	0.1005295	9.39E-09
G	A	0.01	0.6122697	0.09867152	2.01E-09
C	T	0.02	0.5625301	0.09613978	1.37E-08
A	ATATTT	0.02	0.5625301	0.09613978	1.37E-08
A	C	0.02	0.5625301	0.09613978	1.37E-08
G	A	0.02	0.5625301	0.09613978	1.37E-08
G	GA	0.02	0.4448579	0.08431156	2.59E-07
T	C	0.02	0.3919552	0.08170482	2.53E-06
T	TAATC	0.02	0.3919552	0.08170482	2.53E-06
A	G	0.02	0.3919552	0.08170482	2.53E-06
T	C	0.02	0.3919552	0.08170482	2.53E-06
G	A	0.01	0.5169128	0.1038932	1.10E-06
C	T	0.01	0.5169128	0.1038932	1.10E-06
C	T	0.02	0.3950414	0.08576919	6.02E-06
CTCA	C	0.01	0.5169128	0.1038932	1.10E-06
T	C	0.01	0.5169128	0.1038932	1.10E-06
A	G	0.01	0.5169128	0.1038932	1.10E-06
A	G	0.01	0.4957057	0.1077399	6.15E-06
C	A	0.03	0.2840319	0.06097266	4.76E-06
T	C	0.08	0.2002917	0.04239002	3.52E-06
A	G	0.08	0.1965091	0.04228313	5.00E-06
C	G	0.36	0.1037867	0.0230834	9.76E-06
G	A	0.03	0.3187672	0.06813909	4.35E-06
A	AT	0.03	0.3187672	0.06813909	4.35E-06
C	T	0.03	0.3294502	0.06717304	1.54E-06
C	T	0.03	0.3294502	0.06717304	1.54E-06
C	T	0.03	0.3294502	0.06717304	1.54E-06
A	C	0.03	0.3294502	0.06717304	1.54E-06
CAG	C	0.03	0.3294502	0.06717304	1.54E-06
T	A	0.03	0.3294502	0.06717304	1.54E-06
T	A	0.03	0.3294502	0.06717304	1.54E-06
C	CA	0.03	0.3294502	0.06717304	1.54E-06
C	T	0.03	0.3294502	0.06717304	1.54E-06
TAA	T	0.03	0.3294502	0.06717304	1.54E-06
G	A	0.02	0.3415105	0.07541107	8.47E-06
G	A	0.03	0.3294502	0.06717304	1.54E-06

C	T	0.03	0.3294502	0.06717304	1.54E-06
G	A	0.03	0.3294502	0.06717304	1.54E-06
AT	A	0.03	0.3294502	0.06717304	1.54E-06
A	G	0.03	0.3294502	0.06717304	1.54E-06
C	T	0.03	0.3294502	0.06717304	1.54E-06
A	G	0.03	0.3294502	0.06717304	1.54E-06
AAAAT	A	0.03	0.3294502	0.06717304	1.54E-06
A	G	0.03	0.3294502	0.06717304	1.54E-06
G	C	0.03	0.3294502	0.06717304	1.54E-06
A	G	0.03	0.3371561	0.06701392	8.48E-07
A	C	0.19	0.138472	0.02921946	3.30E-06
C	A	0.23	0.1307418	0.02706726	2.17E-06
C	CA	0.19	0.1323581	0.02886098	6.57E-06
C	T	0.18	0.1336623	0.029383	7.74E-06
G	C	0.18	0.1382623	0.02989401	5.52E-06
A	T	0.21	0.1255973	0.02779853	8.87E-06
A	C	0.18	0.1416553	0.02971431	2.90E-06
G	A	0.17	0.141682	0.03023108	4.19E-06
G	A	0.17	0.1390962	0.03045197	7.13E-06
C	T	0.18	0.1425933	0.03040258	4.12E-06
G	T	0.2	0.1331051	0.02844321	4.32E-06
A	G	0.2	0.1311657	0.02847174	5.99E-06
C	G	0.04	0.2892667	0.0618802	4.42E-06
C	T	0.03	0.3312938	0.06419139	4.55E-07
A	AACAC	0.01	0.5148759	0.1129175	7.38E-06
C	T	0.02	0.4375096	0.09374625	4.58E-06
G	T	0.02	0.433334	0.09382193	5.68E-06
T	C	0.02	0.433334	0.09382193	5.68E-06
C	G	0.01	0.4491774	0.09939388	8.83E-06
T	TTGTGTGTGTG	0.02	0.3879573	0.08626276	9.71E-06
TC	T	0.24	-0.1221396	0.02655976	6.21E-06
A	G	0.05	0.2415329	0.05301365	7.50E-06
G	T	0.01	0.4964527	0.107734	5.96E-06
T	TAA	0.14	0.1500766	0.0327403	6.64E-06
A	C	0.14	0.1497178	0.03270435	6.81E-06
A	C	0.01	0.5214273	0.112343	5.13E-06
T	G	0.02	0.4563715	0.08005161	3.01E-08
A	G	0.03	0.3084362	0.06645683	5.14E-06
C	T	0.09	0.1664163	0.03503919	3.15E-06
T	A	0.01	0.436527	0.09437843	5.52E-06
G	A	0.03	0.3209182	0.07099637	8.79E-06
T	G	0.03	0.3209182	0.07099637	8.79E-06
T	C	0.01	0.510829	0.1081419	3.54E-06
G	T	0.01	0.5437991	0.1033246	2.76E-07
G	A	0.01	0.5437991	0.1033246	2.76E-07
C	T	0.01	0.5040502	0.1111843	8.29E-06
T	G	0.02	0.3930904	0.08117718	2.06E-06
CA	C	0.24	-0.1217204	0.02607184	4.54E-06
C	G	0.23	-0.1288527	0.0283978	8.15E-06
T	C	0.2	-0.1426867	0.02955649	2.20E-06

T	TC	0.2	-0.1403844	0.02964162	3.35E-06
G	T	0.02	0.4094364	0.0895565	7.00E-06
G	A	0.22	0.1206971	0.02634711	6.72E-06
G	A	0.26	-0.1240383	0.02758552	9.75E-06
G	A	0.02	0.431295	0.08946757	2.27E-06
G	A	0.02	0.431295	0.08946757	2.27E-06
C	T	0.02	0.431295	0.08946757	2.27E-06
C	T	0.02	0.4222319	0.0765493	7.80E-08
TA	T	0.02	0.3981464	0.07389939	1.49E-07
T	C	0.03	0.3790674	0.07287414	3.73E-07
T	G	0.03	0.3647308	0.07002809	3.61E-07
A	C	0.03	0.3647308	0.07002809	3.61E-07
T	C	0.03	0.3782797	0.06897745	9.16E-08
A	G	0.03	0.3658171	0.0715381	5.72E-07
C	T	0.03	0.3658171	0.0715381	5.72E-07
T	G	0.03	0.3782797	0.06897745	9.16E-08
A	G	0.02	0.351011	0.07814003	9.94E-06
T	C	0.22	0.1266427	0.02817432	9.82E-06
G	A	0.12	0.1755324	0.03617223	1.96E-06
G	A	0.09	0.1902894	0.04013936	3.28E-06
A	G	0.05	0.2514311	0.05302133	3.26E-06
T	G	0.05	0.2514311	0.05302133	3.26E-06
C	T	0.05	0.2514311	0.05302133	3.26E-06
C	T	0.05	0.2514311	0.05302133	3.26E-06
C	T	0.01	0.5000897	0.1068261	4.29E-06
C	T	0.01	0.5264324	0.1143192	6.04E-06
T	C	0.01	0.4361083	0.09672121	9.23E-06
T	A	0.04	0.2584783	0.05446049	3.20E-06
A	G	0.04	0.2822581	0.0592405	2.94E-06
C	T	0.03	0.2664366	0.05917726	9.50E-06
C	T	0.05	0.2433926	0.05255584	5.38E-06
T	G	0.04	0.254701	0.05651408	9.32E-06
G	A	0.04	0.2560821	0.05612846	7.30E-06
C	T	0.01	0.5014603	0.1091992	6.40E-06
C	A	0.02	0.3914284	0.08223535	3.00E-06
A	G	0.03	0.3307016	0.07006979	3.61E-06
G	GA	0.15	0.1478751	0.03119525	3.28E-06
G	A	0.15	0.1513191	0.03115333	1.92E-06
T	G	0.15	0.1513191	0.03115333	1.92E-06
T	C	0.16	0.1447741	0.0307833	3.89E-06
A	T	0.15	0.1489855	0.0312409	2.88E-06
G	T	0.02	0.3867831	0.0856562	8.97E-06
A	G	0.02	0.3756671	0.08067269	4.79E-06
C	CT	0.03	0.3462351	0.06752349	5.34E-07
G	GGAAAGA	0.01	0.5086986	0.1048143	1.95E-06
C	A	0.03	0.3540853	0.06865937	4.63E-07
T	C	0.01	0.49892	0.1053864	3.38E-06
G	A	0.01	0.5412923	0.1162461	4.80E-06
G	A	0.01	0.5412923	0.1162461	4.80E-06
G	A	0.01	0.5412923	0.1162461	4.80E-06

G	A	0.01	0.5412923	0.1162461	4.80E-06
GTGTGTGCATT	G	0.04	0.2577133	0.05537028	4.84E-06
G	GT	0.01	0.510005	0.1130612	9.15E-06
C	A	0.01	0.5492266	0.1151438	2.87E-06
C	CT	0.01	0.4231085	0.09387028	9.30E-06
G	A	0.01	0.4636752	0.09957999	4.80E-06
G	A	0.01	0.4636752	0.09957999	4.80E-06
T	G	0.01	0.4636752	0.09957999	4.80E-06
G	A	0.01	0.4636752	0.09957999	4.80E-06
C	T	0.02	0.3339295	0.07411648	9.37E-06
G	A	0.06	0.2183208	0.04587384	3.01E-06
C	T	0.06	0.209646	0.0461854	8.08E-06
C	T	0.02	0.3669683	0.07594466	2.16E-06
A	G	0.03	0.3085165	0.06673648	5.58E-06
A	G	0.03	0.3075891	0.067632	7.78E-06
A	G	0.01	0.4835153	0.104606	5.59E-06
G	T	0.01	0.5636967	0.106828	2.58E-07
A	G	0.03	0.3303819	0.06515838	7.03E-07
T	C	0.01	0.5190765	0.1139713	7.56E-06
C	T	0.03	0.2863768	0.06327683	8.58E-06
G	C	0.01	0.4558272	0.09498814	2.51E-06
A	C	0.06	0.2263025	0.04950536	7.02E-06
G	T	0.09	0.1735583	0.03795482	6.97E-06
C	T	0.09	0.1735583	0.03795482	6.97E-06
G	A	0.09	0.1811412	0.03748784	2.16E-06
G	A	0.02	0.4201613	0.08669902	2.02E-06
G	A	0.01	0.4391928	0.0977384	9.88E-06
G	A	0.01	0.4624025	0.1010416	6.86E-06
C	CGT	0.03	0.3399424	0.07212645	3.72E-06
A	AACACAC	0.01	0.5061088	0.1059529	2.78E-06
A	C	0.02	0.3507241	0.07734581	8.25E-06
C	G	0.02	0.3750193	0.08096622	5.36E-06
A	G	0.01	0.5466834	0.1059898	4.61E-07
A	T	0.03	0.2785841	0.06140075	8.16E-06
C	G	0.33	-0.1075485	0.0231898	5.22E-06
TTC	T	0.02	0.3728063	0.08108151	6.23E-06
G	GAT	0.12	0.1846847	0.03660916	7.95E-07
C	A	0.04	0.2587978	0.05623922	6.13E-06
T	C	0.1	0.1685371	0.03646666	5.61E-06
GGC	G	0.37	0.1089094	0.02351396	5.36E-06
C	A	0.09	0.1835732	0.04000344	6.49E-06
T	C	0.09	0.1835732	0.04000344	6.49E-06
TC	T	0.09	0.1835732	0.04000344	6.49E-06
C	A	0.09	0.1835732	0.04000344	6.49E-06
C	T	0.09	0.1835732	0.04000344	6.49E-06
T	C	0.09	0.1835732	0.04000344	6.49E-06
A	G	0.09	0.1810837	0.03960709	6.99E-06
A	T	0.09	0.1787417	0.03931066	7.81E-06
C	A	0.09	0.1880523	0.04014762	4.24E-06
G	A	0.09	0.181844	0.03994648	7.63E-06

G	A	0.09	0.181844	0.03994648	7.63E-06
G	A	0.09	0.181844	0.03994648	7.63E-06
G	A	0.09	0.1780255	0.03898542	7.17E-06
C	T	0.08	0.1845374	0.04032115	6.85E-06
CTGTATA	C	0.01	0.457922	0.09875842	5.24E-06
CCA	C	0.02	0.3837862	0.0848589	8.69E-06
T	G	0.31	-0.1123021	0.02459403	7.17E-06
G	A	0.05	0.2324755	0.04943856	3.90E-06
A	ATCTACACCAGCCCTC	0.05	0.2407449	0.05165741	4.71E-06
T	A	0.04	0.2834111	0.06162103	6.20E-06
A	G	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
C	G	0.01	0.4974278	0.1096163	8.13E-06
T	A	0.01	0.4974278	0.1096163	8.13E-06
C	G	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
G	A	0.01	0.4974278	0.1096163	8.13E-06
G	C	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
CTG	C	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
A	G	0.01	0.4974278	0.1096163	8.13E-06
G	A	0.01	0.4974278	0.1096163	8.13E-06
A	G	0.01	0.4974278	0.1096163	8.13E-06
T	C	0.01	0.4974278	0.1096163	8.13E-06
G	A	0.01	0.4974278	0.1096163	8.13E-06
T	C	0.01	0.4974278	0.1096163	8.13E-06
T	A	0.01	0.4974278	0.1096163	8.13E-06
G	A	0.01	0.4974278	0.1096163	8.13E-06
T	C	0.01	0.4974278	0.1096163	8.13E-06
A	T	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
T	C	0.01	0.4974278	0.1096163	8.13E-06
TA	T	0.01	0.4974278	0.1096163	8.13E-06
C	T	0.01	0.4974278	0.1096163	8.13E-06
A	G	0.01	0.4974278	0.1096163	8.13E-06
A	T	0.01	0.4714551	0.1033767	7.36E-06
C	T	0.03	0.3549708	0.06843552	4.01E-07
T	ACACACACACACACA	0.02	0.5079433	0.08745473	1.72E-08
A	G	0.04	0.2874034	0.06274381	6.73E-06
A	G	0.04	0.2874034	0.06274381	6.73E-06
A	T	0.02	0.4077209	0.08619293	3.44E-06
G	A	0.04	0.2874034	0.06274381	6.73E-06
A	G	0.04	0.2874034	0.06274381	6.73E-06
T	C	0.04	0.2874034	0.06274381	6.73E-06
TTTTA	T	0.04	0.2874034	0.06274381	6.73E-06
C	T	0.04	0.2874034	0.06274381	6.73E-06
GCACA	G	0.04	0.2977153	0.06209661	2.57E-06
C	T	0.04	0.2977153	0.06209661	2.57E-06
G	C	0.04	0.3074806	0.06262312	1.50E-06

TC	T	0.04	0.2977153	0.06209661	2.57E-06
C	T	0.04	0.2977153	0.06209661	2.57E-06
G	T	0.04	0.2977153	0.06209661	2.57E-06
A	G	0.04	0.2977153	0.06209661	2.57E-06
C	T	0.04	0.2977153	0.06209661	2.57E-06
A	G	0.04	0.2977153	0.06209661	2.57E-06
C	T	0.04	0.2977153	0.06209661	2.57E-06
ATATTTT	A	0.04	0.276991	0.06113152	8.38E-06
A	G	0.04	0.2977153	0.06209661	2.57E-06
C	T	0.04	0.2977153	0.06209661	2.57E-06
T	C	0.04	0.2977153	0.06209661	2.57E-06
G	A	0.04	0.2977153	0.06209661	2.57E-06
T	C	0.02	0.4077209	0.08619293	3.44E-06
A	C	0.04	0.2977153	0.06209661	2.57E-06
G	T	0.01	0.4750338	0.1033696	6.30E-06
C	T	0.35	0.1128844	0.023987	3.84E-06
C	A	0.36	0.1100502	0.02386656	5.88E-06
T	C	0.36	0.1112662	0.02391021	4.86E-06
AG	A	0.35	0.1087999	0.02379249	6.97E-06
CTG	C	0.36	0.1066912	0.02375099	9.94E-06
A	G	0.35	0.1086281	0.02389794	7.86E-06
A	C	0.35	0.1114694	0.02391447	4.70E-06
G	A	0.35	0.1087697	0.02390977	7.74E-06
G	A	0.35	0.1105807	0.0238698	5.34E-06
T	A	0.35	0.1092946	0.02383972	6.61E-06
G	A	0.34	0.1070665	0.02358845	8.09E-06
C	A	0.35	0.1050119	0.02327198	9.09E-06
C	T	0.17	-0.1425133	0.03038914	4.13E-06
C	T	0.17	-0.1406245	0.03057708	6.20E-06
GAGAA	G	0.03	0.2911962	0.06395518	7.60E-06
G	T	0.02	0.3481977	0.07671493	8.10E-06
C	T	0.02	0.3481977	0.07671493	8.10E-06
T	C	0.02	0.3481977	0.07671493	8.10E-06
G	A	0.02	0.3481977	0.07671493	8.10E-06
G	A	0.02	0.3481977	0.07671493	8.10E-06
C	T	0.03	0.324168	0.06576105	1.37E-06
C	G	0.03	0.324168	0.06576105	1.37E-06
A	G	0.03	0.3109519	0.06515753	2.84E-06
T	TA	0.03	0.3225728	0.06576217	1.54E-06
TTCTCTCTCTC	T	0.03	0.3392578	0.0678636	9.87E-07
C	T	0.11	0.170344	0.03554388	2.59E-06
G	A	0.02	0.3356644	0.07285691	5.98E-06
T	A	0.02	0.3356644	0.07285691	5.98E-06
T	A	0.06	0.2262157	0.0485935	4.82E-06
T	C	0.06	0.2264629	0.04667315	1.97E-06
CGTGTGT	C	0.01	0.4498533	0.09827434	6.82E-06
C	T	0.02	0.3688922	0.07963306	5.34E-06
C	A	0.29	0.1177241	0.02492268	3.54E-06
C	T	0.02	0.3730047	0.07844526	3.07E-06
A	G	0.02	0.3762745	0.08081387	4.81E-06

A	G	0.02	0.3704353	0.07831605	3.44E-06
T	C	0.01	0.4295472	0.0934425	6.26E-06
G	T	0.02	0.4136291	0.09160645	8.98E-06
T	C	0.47	0.104397	0.02309975	8.82E-06
G	A	0.44	0.1110087	0.02313597	2.52E-06
A	AT	0.15	0.1467037	0.03249753	9.02E-06
G	A	0.15	0.1470294	0.03232345	7.75E-06
G	GA	0.05	0.2402402	0.05158355	4.78E-06
A	C	0.18	0.1313466	0.02914814	9.35E-06
C	CCACACA	0.02	0.3963964	0.08651541	6.70E-06
C	T	0.14	0.1599669	0.03313433	2.20E-06
C	T	0.41	-0.1061674	0.02327031	7.30E-06
C	T	0.1	0.1913812	0.03794036	7.97E-07
CGGGTGCAGGCT	C	0.01	0.5533915	0.09721534	3.15E-08
A	G	0.06	0.213847	0.04736153	8.98E-06
CCACA	C	0.05	0.2498729	0.05264762	3.20E-06
GT	G	0.46	0.1044202	0.02287934	7.25E-06
G	A	0.06	0.2261734	0.04804845	3.82E-06
A	AAAAG	0.09	0.194736	0.04010136	1.93E-06
C	A	0.13	0.1562545	0.03389324	5.90E-06
C	T	0.16	0.1433155	0.02999309	2.76E-06
C	T	0.03	0.3128693	0.06861223	7.38E-06
C	T	0.01	0.4454286	0.09673728	6.05E-06
C	A	0.2	0.1282705	0.0279645	6.55E-06
T	C	0.01	0.4963462	0.1065147	4.73E-06
G	A	0.27	0.1398413	0.02356327	8.77E-09
A	T	0.32	0.1343085	0.02257776	8.14E-09
G	A	0.32	0.1335653	0.02256966	9.60E-09
G	C	0.32	0.1355866	0.02247489	5.17E-09
G	A	0.08	-0.3032543	0.05019699	5.00E-09
G	T	0.08	-0.3040948	0.05090308	7.19E-09
G	A	0.08	-0.3052288	0.05069865	5.60E-09
A	G	0.08	-0.3052288	0.05069865	5.60E-09
T	C	0.05	-0.4948999	0.07588589	3.53E-10
C	G	0.01	1.115878	0.2464318	8.94E-06
C	A	0.1	0.4337342	0.09443186	6.73E-06
C	A	0.02	-0.8578605	0.1892638	8.77E-06
T	A	0.19	-0.3557029	0.07712263	6.19E-06
T	A	0.02	-0.8746729	0.1880215	5.19E-06
A	G	0.03	0.7567085	0.161604	4.53E-06
C	CCACACACA	0.04	0.7012178	0.153038	7.06E-06
C	T	0.04	0.6550371	0.1433799	7.49E-06
G	C	0.32	0.2815971	0.06075686	5.60E-06
C	G	0.22	-0.3148188	0.0686016	6.85E-06
G	A	0.21	-0.3432606	0.07030003	1.83E-06
T	C	0.21	-0.324089	0.0699482	5.64E-06
A	G	0.2	-0.3274363	0.07116955	6.50E-06
A	G	0.2	-0.3279211	0.07008888	4.61E-06
C	T	0.04	0.732363	0.1538341	3.19E-06
C	T	0.04	0.6458225	0.1394352	5.68E-06

C	T	0.01	1.440193	0.2871337	9.87E-07
G	A	0.02	0.9458355	0.2069219	7.41E-06
G	A	0.19	0.338752	0.07404697	7.29E-06
C	T	0.17	0.3718789	0.07646876	2.00E-06
G	A	0.19	0.3435854	0.07229363	3.31E-06
T	C	0.01	1.244252	0.2474223	9.29E-07
A	G	0.3	-0.2813326	0.06213807	8.96E-06
C	A	0.3	-0.2813326	0.06213807	8.96E-06
T	C	0.3	-0.2871043	0.06207855	5.85E-06
G	A	0.3	-0.2813326	0.06213807	8.96E-06
G	A	0.29	-0.2875704	0.06243542	6.36E-06
A	C	0.3	-0.2813326	0.06213807	8.96E-06
C	A	0.3	-0.2815719	0.06214365	8.83E-06
C	T	0.3	-0.2837896	0.06207769	7.40E-06
GCATC	G	0.09	0.4663135	0.1032494	9.41E-06
C	T	0.11	0.3900053	0.08599041	8.66E-06
G	A	0.11	0.4027782	0.08683896	5.51E-06
C	A	0.08	0.4856412	0.1041736	4.97E-06
G	T	0.11	0.4134856	0.08880948	5.10E-06
T	C	0.11	0.418005	0.0913411	7.24E-06
G	A	0.09	0.4949353	0.1006017	1.54E-06
A	T	0.31	-0.2686759	0.05955171	9.60E-06
T	C	0.32	-0.2720459	0.05910703	6.45E-06
C	G	0.02	0.9075485	0.2002893	8.82E-06
C	T	0.22	-0.3057546	0.06650881	6.61E-06
C	T	0.22	-0.3042764	0.06653873	7.35E-06
C	T	0.22	-0.3183917	0.06636684	2.70E-06
C	T	0.46	-0.2706188	0.05642755	2.72E-06
C	CA	0.15	0.3628726	0.08032298	9.35E-06
G	GCACA	0.16	0.3850602	0.08170975	3.96E-06
C	A	0.3	0.2818335	0.06113499	6.25E-06
T	C	0.19	-0.3364551	0.07357079	7.34E-06
A	G	0.19	-0.3338273	0.07359329	8.63E-06
T	C	0.19	-0.3338273	0.07359329	8.63E-06
G	A	0.2	-0.3530993	0.07287811	2.17E-06
A	T	0.2	-0.3524916	0.07318516	2.48E-06
C	T	0.2	-0.3535839	0.07233509	1.79E-06
A	G	0.2	-0.3535839	0.07233509	1.79E-06
G	C	0.2	-0.3535839	0.07233509	1.79E-06
T	G	0.2	-0.3535839	0.07233509	1.79E-06
T	C	0.2	-0.3610535	0.07240197	1.13E-06
A	C	0.2	-0.3503537	0.07233262	2.19E-06
T	TTTTA	0.18	-0.3817273	0.07566838	8.62E-07
A	G	0.2	-0.3535839	0.07233509	1.79E-06
T	G	0.2	-0.3541439	0.07238517	1.75E-06
A	G	0.2	-0.3472753	0.07238938	2.70E-06
A	C	0.2	-0.3460683	0.07244838	2.97E-06
T	A	0.2	-0.3535839	0.07233509	1.79E-06
T	C	0.2	-0.3535839	0.07233509	1.79E-06
C	T	0.2	-0.3535839	0.07233509	1.79E-06

T	C	0.2	-0.3503537	0.07233262	2.19E-06
C	T	0.2	-0.3535839	0.07233509	1.79E-06
C	T	0.2	-0.3423976	0.07320038	4.63E-06
T	C	0.2	-0.3796126	0.07238262	3.32E-07
A	G	0.2	-0.3765371	0.07242673	4.14E-07
C	T	0.2	-0.3765371	0.07242673	4.14E-07
A	T	0.2	-0.3765371	0.07242673	4.14E-07
C	T	0.2	-0.3765371	0.07242673	4.14E-07
A	G	0.2	-0.3775729	0.07245668	3.91E-07
C	T	0.2	-0.383574	0.07247649	2.64E-07
T	C	0.2	-0.3765371	0.07242673	4.14E-07
T	C	0.2	-0.3765371	0.07242673	4.14E-07
C	T	0.2	-0.3765371	0.07242673	4.14E-07
C	A	0.2	-0.3765371	0.07242673	4.14E-07
G	A	0.02	1.098999	0.2426382	8.89E-06
C	T	0.02	1.098999	0.2426382	8.89E-06
T	G	0.03	0.8702843	0.1826522	3.13E-06
AT	A	0.09	0.4564583	0.1002936	8.08E-06
CA	C	0.25	-0.3279886	0.06757085	2.09E-06
A	G	0.19	-0.3724769	0.07474831	1.15E-06
G	A	0.13	-0.4195951	0.0849739	1.42E-06
C	T	0.13	-0.4137001	0.08518312	2.06E-06
G	T	0.13	-0.4137001	0.08518312	2.06E-06
T	C	0.18	-0.43407	0.07619852	3.51E-08
G	A	0.17	-0.4334217	0.07796986	7.06E-08
C	A	0.02	-0.8689748	0.1846752	4.09E-06
C	CCACA	0.02	-0.8780925	0.1836721	2.91E-06
T	C	0.07	-0.5641589	0.1086858	4.31E-07
C	G	0.11	0.4533966	0.09641892	4.15E-06
G	T	0.43	-0.2632231	0.05799088	8.52E-06
G	GA	0.37	0.2720645	0.05453494	1.12E-06
AAC	A	0.07	-0.5934427	0.1119729	2.54E-07
A	C	0.03	0.722738	0.1569473	6.39E-06
C	T	0.03	-0.7517654	0.1639661	6.98E-06
G	A	0.14	-0.3861917	0.08541958	9.21E-06
T	C	0.44	-0.2611799	0.05798623	9.92E-06
C	T	0.44	-0.2611799	0.05798623	9.92E-06
C	T	0.03	0.3493646	0.05608413	2.16E-09
C	CTG	0.02	0.3574967	0.05913695	5.79E-09
T	C	0.07	-0.2990768	0.04800208	2.21E-09
C	T	0.01	-0.6582424	0.1073702	3.20E-09
T	C	0.02	-0.6931383	0.1168554	9.33E-09
A	C	0.07	-0.228483	0.04934214	5.39E-06
G	T	0.04	0.2969535	0.06375068	4.76E-06
A	AACAC	0.03	-0.3371598	0.07348176	6.50E-06
A	G	0.13	-0.1659428	0.03651054	7.88E-06
G	C	0.37	0.1186191	0.02528422	4.10E-06
G	A	0.02	-0.3695415	0.08205327	9.45E-06
G	A	0.03	-0.3761057	0.07891715	2.92E-06
A	G	0.03	-0.3761057	0.07891715	2.92E-06

T	C	0.03	-0.3761057	0.07891715	2.92E-06
T	C	0.08	-0.2159007	0.04541568	3.09E-06
A	G	0.28	-0.1317608	0.02842712	5.28E-06
C	T	0.12	-0.1742601	0.03835503	7.94E-06
A	G	0.02	-0.4505247	0.09743475	5.55E-06
C	A	0.34	-0.1139473	0.02503875	7.68E-06
ACACG	A	0.39	-0.128802	0.02750489	4.26E-06
TACACACACACAC	T	0.04	-0.2898555	0.06333488	6.85E-06
G	A	0.05	-0.2557026	0.05691747	9.92E-06
A	G	0.03	-0.3471108	0.07619171	7.51E-06
G	GC	0.01	-0.4973109	0.1061437	4.21E-06
A	G	0.03	-0.3747497	0.07875896	3.03E-06
C	A	0.03	-0.3747497	0.07875896	3.03E-06
G	A	0.03	-0.3747497	0.07875896	3.03E-06
T	C	0.05	-0.2719469	0.05996999	8.24E-06
C	A	0.33	-0.1209973	0.02682134	9.14E-06
T	C	0.05	-0.2961542	0.0620532	2.83E-06
TAG	T	0.21	-0.1368496	0.03046966	9.97E-06
T	C	0.21	0.1381789	0.02981725	5.30E-06
GGA	G	0.09	-0.2099997	0.04366898	2.40E-06
G	A	0.24	-0.1430234	0.03020279	3.36E-06
A	G	0.08	-0.2355148	0.04831588	1.77E-06
C	T	0.02	-0.4757233	0.103654	6.47E-06
T	C	0.02	-0.4757233	0.103654	6.47E-06
C	A	0.02	-0.4703206	0.1017352	5.57E-06
C	CTCTCT	0.01	-0.5315238	0.1173464	8.43E-06
TA	T	0.03	-0.3264341	0.07267067	9.94E-06
T	C	0.03	-0.320228	0.07126151	9.87E-06
G	A	0.03	-0.3455839	0.07119984	1.95E-06
G	GCA	0.03	-0.3743551	0.0791869	3.48E-06
A	C	0.05	-0.4123747	0.06777317	3.94E-09
G	GCGCACACA	0.07	-0.2466133	0.04102655	6.73E-09
C	T	0.01	1.210068	0.2281796	2.29E-07
A	T	0.08	-0.4790784	0.09181974	3.48E-07
T	C	0.22	0.28596	0.06302062	8.18E-06
G	A	0.22	0.2868312	0.06273551	7.03E-06
GTGTGTGTGTGTGTG	A	0.07	0.5257994	0.1052939	1.02E-06
C	T	0.01	1.183573	0.2345904	7.99E-07
C	A	0.01	1.121661	0.2435085	6.04E-06
G	A	0.03	0.7600558	0.1686973	9.42E-06
CGTGTGT	C	0.01	1.026256	0.2277423	9.39E-06
T	TAC	0.01	1.096871	0.2406069	7.45E-06
C	T	0.01	1.101784	0.2417154	7.47E-06
G	A	0.01	1.104252	0.2258055	1.66E-06
G	T	0.02	0.8920463	0.1972068	8.71E-06
C	G	0.02	0.9519533	0.2007777	3.29E-06
AACAG	A	0.02	0.9519533	0.2007777	3.29E-06
T	C	0.02	0.9519533	0.2007777	3.29E-06
C	T	0.02	0.9519533	0.2007777	3.29E-06
G	A	0.02	0.9519533	0.2007777	3.29E-06

G	A	0.02	0.9519533	0.2007777	3.29E-06
T	A	0.02	0.89928	0.1973908	7.55E-06
A	AGAGT	0.02	0.8654208	0.1775904	1.79E-06
C	T	0.02	0.8654208	0.1775904	1.79E-06
GTCTGTCTA	G	0.02	0.851689	0.1776201	2.57E-06
G	GA	0.02	0.8839854	0.1828778	2.15E-06
A	G	0.02	0.8839854	0.1828778	2.15E-06
C	T	0.02	0.8839854	0.1828778	2.15E-06
TTCTCTCTCTCTC	T	0.02	1.004919	0.2070701	1.97E-06
C	G	0.02	0.8839854	0.1828778	2.15E-06
G	A	0.02	0.8839854	0.1828778	2.15E-06
T	G	0.02	0.8839854	0.1828778	2.15E-06
T	C	0.02	0.8839854	0.1828778	2.15E-06
G	C	0.02	0.8839854	0.1828778	2.15E-06
G	A	0.02	0.8839854	0.1828778	2.15E-06
A	G	0.02	0.8839854	0.1828778	2.15E-06
T	C	0.02	0.9215063	0.1825908	7.93E-07
CATAGATACATAG	C	0.05	0.5567409	0.1177667	3.50E-06
C	T	0.04	0.6419309	0.1302277	1.38E-06
GC	G	0.04	0.6441299	0.131067	1.48E-06
A	G	0.04	0.6419309	0.1302277	1.38E-06
TTGTGTGTGTGTG	T	0.04	0.6350953	0.1395683	7.73E-06
T	G	0.04	0.6380502	0.1341194	3.06E-06
T	G	0.04	0.6380502	0.1341194	3.06E-06
A	G	0.02	0.9303003	0.185288	8.97E-07
C	T	0.02	0.893104	0.180144	1.21E-06
G	A	0.02	0.893104	0.180144	1.21E-06
T	C	0.02	0.9052879	0.1798386	8.43E-07
ATGTGTG	A	0.05	0.5893375	0.1191703	1.28E-06
A	T	0.36	0.2549403	0.05410219	3.75E-06
T	C	0.42	-0.2393408	0.0524578	7.33E-06
C	T	0.03	0.7242675	0.1612047	9.95E-06
T	C	0.01	1.331505	0.2594479	5.27E-07
G	A	0.08	0.5460249	0.09523272	2.57E-08
G	A	0.08	0.5620829	0.09578901	1.27E-08
G	T	0.08	0.5606773	0.0961443	1.54E-08
T	C	0.12	0.4213538	0.07880759	1.84E-07
T	C	0.08	0.4915583	0.09660288	6.50E-07
C	T	0.09	0.4606641	0.08994401	5.54E-07
C	T	0.12	0.3800584	0.07967968	2.89E-06
T	C	0.12	0.407272	0.08045949	7.38E-07
G	C	0.13	0.369622	0.07691518	2.45E-06
C	A	0.11	0.4077276	0.08397643	1.95E-06
G	A	0.09	0.4178189	0.0913304	6.94E-06
G	A	0.02	0.984332	0.2129982	5.65E-06
T	C	0.01	1.177293	0.2574935	7.02E-06
C	T	0.01	1.177293	0.2574935	7.02E-06
C	T	0.12	-0.3626271	0.07897031	6.43E-06
G	A	0.01	1.231828	0.258276	2.89E-06
G	A	0.01	1.190391	0.2574897	5.60E-06

C	T	0.05	0.5877001	0.1169586	8.80E-07
G	GGAAAGAAA	0.08	0.4469983	0.09932629	9.63E-06
T	C	0.08	0.4463806	0.09321648	2.65E-06
T	C	0.11	0.3764085	0.08186621	6.27E-06
C	A	0.08	0.4483953	0.09295214	2.25E-06
C	T	0.07	0.4562891	0.100921	8.79E-06
C	T	0.07	0.4562891	0.100921	8.79E-06
T	C	0.07	0.4668037	0.09908314	3.77E-06
C	A	0.08	0.4585072	0.09630138	3.00E-06
C	G	0.02	-0.7945429	0.1706154	4.81E-06
C	A	0.14	-0.3429909	0.07428174	5.74E-06
T	TTGTGTGTGTGTG	0.01	1.294014	0.2220145	1.56E-08
T	C	0.02	0.9099183	0.1969123	5.65E-06
G	A	0.01	1.347076	0.2581396	3.47E-07
A	G	0.01	1.347076	0.2581396	3.47E-07
C	G	0.03	0.8444931	0.1601336	2.64E-07
A	G	0.03	0.7964167	0.1631596	1.73E-06
T	C	0.02	0.8193531	0.1802901	7.93E-06
T	C	0.02	0.8193531	0.1802901	7.93E-06
G	A	0.02	0.8193531	0.1802901	7.93E-06
A	C	0.01	1.009835	0.2180203	5.39E-06
T	C	0.01	1.166484	0.2446703	2.92E-06
A	G	0.01	1.166484	0.2446703	2.92E-06
A	T	0.01	1.360904	0.2587358	2.83E-07
G	A	0.01	1.140561	0.2521122	8.68E-06
A	AGGATGGAT	0.03	0.6611474	0.1449297	7.35E-06
C	T	0.01	1.038359	0.2228867	4.78E-06
A	G	0.16	0.3296427	0.07154016	6.00E-06
A	T	0.33	0.2564864	0.05581186	6.33E-06
C	T	0.03	0.7351273	0.1505516	1.71E-06
A	G	0.03	0.6648266	0.1447551	6.41E-06
G	T	0.01	1.105414	0.2270654	1.84E-06
GTGTGTGTGTGTACG	C	0.01	1.048793	0.207361	7.52E-07
T	C	0.04	0.6558449	0.1395382	3.96E-06
T	A	0.04	0.6037585	0.1340764	9.52E-06
GA	G	0.05	0.571043	0.1257246	8.02E-06
T	C	0.05	0.571043	0.1257246	8.02E-06
C	T	0.01	1.273438	0.2561563	1.13E-06
A	AGCAGCAGTGTTCAG	0.01	0.9733766	0.2155224	8.98E-06
A	C	0.01	1.424439	0.2481207	2.47E-08
A	G	0.01	1.424439	0.2481207	2.47E-08
C	A	0.01	1.424439	0.2481207	2.47E-08
G	A	0.01	1.25314	0.2347827	1.93E-07
T	C	0.02	0.9752903	0.2142739	7.69E-06
A	G	0.02	0.9752903	0.2142739	7.69E-06
G	C	0.01	1.008074	0.2193983	6.35E-06
G	A	0.01	1.117924	0.2347082	2.98E-06
G	GT	0.01	1.117924	0.2347082	2.98E-06
G	C	0.01	1.117924	0.2347082	2.98E-06
C	G	0.01	1.117924	0.2347082	2.98E-06

C	G	0.01	1.117924	0.2347082	2.98E-06
G	A	0.03	0.7527507	0.1625732	5.43E-06
T	A	0.01	0.9958754	0.2195652	8.25E-06
C	A	0.44	0.2164528	0.04797058	9.14E-06
G	A	0.01	1.121417	0.2419563	5.32E-06
C	A	0.46	0.2350638	0.05164216	7.68E-06
T	C	0.01	1.178766	0.2565902	6.38E-06
C	CA	0.06	0.5181873	0.1058441	1.62E-06
T	A	0.01	1.185147	0.2488605	2.99E-06
A	AAAGGAAGGAAGG	0.01	0.9863118	0.2193482	9.79E-06
G	A	0.4	0.2623888	0.05408519	1.98E-06
C	G	0.4	0.2623888	0.05408519	1.98E-06
C	T	0.08	0.4467457	0.09508939	4.00E-06
TA	T	0.01	1.182247	0.2487797	3.13E-06
G	A	0.42	-0.2389928	0.04990446	2.64E-06
C	T	0.02	0.7842787	0.174512	9.90E-06
T	C	0.02	0.9431719	0.2092713	9.36E-06
G	A	0.01	1.032354	0.2273983	8.10E-06
TG	T	0.01	1.193918	0.2408624	1.21E-06
A	G	0.01	0.9950438	0.2185365	7.64E-06
T	C	0.01	0.9950438	0.2185365	7.64E-06
G	A	0.02	0.8427132	0.1814374	5.09E-06
C	T	0.15	-0.3230922	0.07021985	6.18E-06
G	T	0.15	-0.3169319	0.07019115	9.02E-06
G	T	0.15	-0.3162979	0.07026117	9.57E-06
T	C	0.01	1.196911	0.2281483	3.03E-07
T	G	0.01	1.314257	0.2206957	7.97E-09
G	T	0.01	1.314257	0.2206957	7.97E-09
GA	G	0.01	1.314257	0.2206957	7.97E-09
T	C	0.02	0.9226768	0.19643	4.02E-06
A	G	0.02	0.9226768	0.19643	4.02E-06
T	C	0.01	1.314257	0.2206957	7.97E-09
A	G	0.02	1.079746	0.2092907	4.63E-07
G	T	0.02	0.9943751	0.2005172	1.20E-06
C	T	0.02	0.9790846	0.2052261	2.88E-06
A	G	0.02	1.171305	0.2077572	4.22E-08
A	C	0.02	0.9943751	0.2005172	1.20E-06
G	A	0.02	0.9886027	0.2048186	2.22E-06
C	T	0.02	0.9886027	0.2048186	2.22E-06
GA	G	0.02	0.972531	0.2098396	5.32E-06
G	A	0.22	0.2824931	0.06263653	9.23E-06
C	T	0.01	1.176007	0.2326026	7.59E-07
C	T	0.02	0.7903785	0.1711058	5.70E-06
T	G	0.02	0.7903785	0.1711058	5.70E-06
C	T	0.03	0.6966453	0.1490255	4.44E-06
G	A	0.03	0.7888603	0.1690951	4.64E-06
C	CA	0.06	0.3829125	0.06266701	3.46E-09
A	G	0.02	0.7384106	0.1238627	7.67E-09
A	G	0.02	0.6844454	0.1131466	5.19E-09
C	T	0.02	0.7107481	0.1196665	8.65E-09

G	A	0.02	0.7107481	0.1196665	8.65E-09
T	C	0.02	0.7359137	0.1194209	2.59E-09
A	G	0.16	0.2962183	0.04962659	7.38E-09
C	T	0.02	-0.4236178	0.09384986	9.04E-06
CATAG	C	0.02	-0.4190943	0.08855376	3.40E-06
G	T	0.03	-0.3028728	0.06729452	9.57E-06
C	T	0.03	-0.3028728	0.06729452	9.57E-06
C	T	0.03	-0.3028728	0.06729452	9.57E-06
C	G	0.03	-0.3105611	0.06896701	9.47E-06
C	G	0.03	-0.3028728	0.06729452	9.57E-06
A	G	0.18	-0.1501248	0.02978882	8.15E-07
T	C	0.18	-0.1501248	0.02978882	8.15E-07
A	G	0.18	-0.1501248	0.02978882	8.15E-07
T	C	0.18	-0.1501248	0.02978882	8.15E-07
C	T	0.18	-0.1469412	0.0300003	1.59E-06
G	C	0.18	-0.1438411	0.02991834	2.41E-06
A	G	0.18	-0.1414984	0.0298835	3.36E-06
T	C	0.17	-0.1413594	0.03113554	8.05E-06
C	T	0.18	-0.1399771	0.02987518	4.21E-06
A	G	0.18	-0.1402174	0.02986318	4.03E-06
T	C	0.18	-0.1401541	0.02986647	4.08E-06
C	A	0.19	-0.1382417	0.02923163	3.45E-06
C	G	0.19	-0.1382417	0.02923163	3.45E-06
A	G	0.19	-0.1382417	0.02923163	3.45E-06
C	T	0.19	-0.1382417	0.02923163	3.45E-06
C	T	0.19	-0.1382417	0.02923163	3.45E-06
G	A	0.19	-0.139431	0.02924864	2.91E-06
A	G	0.19	-0.1432335	0.02943276	1.84E-06
T	C	0.19	-0.139431	0.02924864	2.91E-06
T	C	0.19	-0.1383453	0.02965904	4.63E-06
T	TCACACACA	0.04	-0.296322	0.06470037	6.75E-06
C	CCA	0.06	-0.2296362	0.05052208	7.87E-06
A	G	0.08	-0.2222086	0.04559683	1.78E-06
A	G	0.01	-0.4639831	0.1021702	8.01E-06
A	G	0.02	-0.3930162	0.08477598	5.26E-06
TA	T	0.03	-0.3668723	0.06736953	1.11E-07
T	A	0.01	-0.5568093	0.1117151	1.06E-06
C	T	0.01	-0.4795755	0.1061008	8.80E-06
G	T	0.01	-0.5100506	0.1006131	7.07E-07
G	C	0.02	-0.4201184	0.08918357	3.76E-06
GA	G	0.11	-0.1657836	0.03689123	9.86E-06
C	T	0.11	0.1674604	0.03681196	7.74E-06
AGATAGATAGATT	A	0.02	-0.4544608	0.09285365	1.62E-06
T	TAAAC	0.11	-0.1781708	0.03931349	8.34E-06
A	C	0.41	0.1142731	0.02407629	3.20E-06
G	A	0.41	0.1103948	0.02417675	7.18E-06
CTCTCTCTT	C	0.38	0.1170289	0.02488777	3.90E-06
A	C	0.42	0.1097182	0.02404919	7.30E-06
C	T	0.41	0.1091702	0.02416041	8.85E-06
A	T	0.42	0.1092747	0.0241091	8.33E-06

A	C	0.41	0.1090485	0.02407884	8.46E-06
T	C	0.48	0.1046833	0.02274359	6.10E-06
G	T	0.05	-0.2708346	0.05745335	3.70E-06
G	T	0.16	0.1436421	0.03176915	8.74E-06
C	T	0.02	-0.3982694	0.07542291	2.53E-07
A	G	0.01	-0.6090156	0.113291	1.58E-07
A	G	0.09	-0.1948494	0.04247967	6.55E-06
T	G	0.09	-0.1948494	0.04247967	6.55E-06
T	C	0.2	-0.1354281	0.03009838	9.62E-06
C	T	0.01	-0.5335998	0.1145349	4.75E-06
G	A	0.01	-0.5335998	0.1145349	4.75E-06
C	CATCT	0.14	-0.1825908	0.03595286	6.76E-07
T	TCTCTCACA	0.01	-0.5336963	0.1148722	5.03E-06
C	T	0.07	-0.2184816	0.04551728	2.50E-06
T	A	0.47	0.1086146	0.02376586	7.05E-06
G	T	0.49	0.1060971	0.02338298	8.15E-06
A	G	0.5	0.1080892	0.02344422	5.89E-06
A	G	0.49	0.1060839	0.02348452	8.90E-06
A	C	0.45	0.107479	0.02392686	9.94E-06
G	A	0.45	0.1107549	0.02385989	5.12E-06
T	A	0.45	0.1091661	0.02392724	7.30E-06
C	G	0.45	0.1092451	0.02392813	7.20E-06
A	G	0.45	0.109309	0.0238935	6.91E-06
T	A	0.45	0.1092451	0.02392813	7.20E-06
A	G	0.3	-0.1163644	0.02576652	8.95E-06
A	C	0.3	-0.119933	0.02587671	5.29E-06
A	G	0.28	-0.1182995	0.02632677	9.88E-06
GATGGTGAAACCCC	G	0.4	-0.1150795	0.02435298	3.51E-06
T	G	0.27	-0.1185847	0.02627947	9.09E-06
G	A	0.3	-0.1159887	0.02572676	9.25E-06
CA	C	0.12	-0.1709324	0.03790248	9.20E-06
A	G	0.04	-0.2980725	0.0638055	4.48E-06
C	T	0.04	-0.3021261	0.06202081	1.80E-06
C	G	0.04	-0.3021261	0.06202081	1.80E-06
T	C	0.04	-0.3021261	0.06202081	1.80E-06
G	T	0.04	-0.3021261	0.06202081	1.80E-06
C	T	0.04	-0.3021261	0.06202081	1.80E-06
A	G	0.04	-0.3021261	0.06202081	1.80E-06
TA	T	0.04	-0.3021261	0.06202081	1.80E-06
C	T	0.04	-0.3021261	0.06202081	1.80E-06
C	T	0.04	-0.2941827	0.06245838	3.77E-06
C	G	0.04	-0.3021261	0.06202081	1.80E-06
A	G	0.04	-0.3021261	0.06202081	1.80E-06
A	G	0.04	-0.3021261	0.06202081	1.80E-06
T	C	0.04	-0.3200841	0.06287785	6.38E-07
A	AC	0.04	-0.3021261	0.06202081	1.80E-06
G	A	0.04	-0.2912457	0.06151637	3.37E-06
A	G	0.04	-0.3021261	0.06202081	1.80E-06
A	G	0.04	-0.3021261	0.06202081	1.80E-06
C	T	0.04	-0.3021261	0.06202081	1.80E-06

T	A	0.04	-0.3021261	0.06202081	1.80E-06
T	G	0.04	-0.3021261	0.06202081	1.80E-06
G	T	0.04	-0.3021261	0.06202081	1.80E-06
T	C	0.04	-0.3021261	0.06202081	1.80E-06
T	C	0.04	-0.3021261	0.06202081	1.80E-06
G	T	0.04	-0.3021261	0.06202081	1.80E-06
A	G	0.42	0.1103028	0.02392539	5.90E-06
G	A	0.19	-0.1408983	0.02892759	1.80E-06
T	C	0.2	-0.135748	0.02879457	3.70E-06
TTAGATAGATAA	T	0.16	-0.1374012	0.03031999	8.35E-06
TGATA	T	0.16	-0.1435663	0.03054013	3.93E-06
C	G	0.15	-0.1447228	0.03221469	9.92E-06
T	TAC	0.06	-0.2348507	0.05045096	4.83E-06
G	A	0.15	-0.1501102	0.03325842	9.05E-06
G	C	0.01	-0.5246741	0.1093962	2.55E-06
A	C	0.01	-0.5637219	0.1152099	1.63E-06
A	G	0.01	-0.6206257	0.1178547	2.72E-07
G	T	0.02	-0.4798876	0.09312088	4.72E-07
G	C	0.02	-0.4969183	0.09707991	5.58E-07
CCTCTCT	C	0.04	-0.3247848	0.0632881	5.23E-07
A	C	0.22	-0.126494	0.02767666	7.04E-06
G	A	0.02	-0.4132442	0.08857417	4.61E-06
G	A	0.01	-0.5284459	0.1053242	9.06E-07
A	T	0.01	-0.573925	0.1080211	2.16E-07
G	A	0.02	-0.46272	0.1006454	6.24E-06
T	C	0.01	-0.4925533	0.108685	8.35E-06
C	T	0.01	-0.4925533	0.108685	8.35E-06
T	TTTTTA	0.01	-0.4553833	0.09763157	4.63E-06
C	T	0.01	-0.4931734	0.1076822	6.75E-06
GTTTT	G	0.01	-0.5105932	0.1060373	2.33E-06
A	T	0.37	-0.1132212	0.02487393	7.65E-06
ACT	A	0.01	-0.5067402	0.1080597	4.14E-06
G	A	0.04	-0.2783279	0.06073936	6.68E-06
C	T	0.04	-0.2773978	0.06058501	6.79E-06
G	T	0.04	-0.2697582	0.05938631	7.97E-06
A	G	0.26	-0.1200699	0.02636527	7.57E-06
TCACACACACA	T	0.09	-0.2094125	0.04176513	9.20E-07
A	C	0.08	-0.1985377	0.04389846	8.69E-06
T	C	0.08	-0.1994759	0.04368974	7.19E-06
T	C	0.49	0.1063528	0.02351679	8.70E-06
G	GA	0.02	-0.3669901	0.07882366	4.81E-06
T	TGAATA	0.15	-0.1536611	0.03297243	4.72E-06
G	A	0.04	-0.2758755	0.06034184	7.00E-06
C	G	0.04	0.2936725	0.06153377	2.84E-06
A	C	0.02	-0.4242678	0.0924985	6.55E-06
C	T	0.01	-0.602503	0.1200267	8.95E-07
GTTTTTC	G	0.01	-0.5543819	0.1128186	1.47E-06
C	T	0.05	-0.2546491	0.05391625	3.55E-06
G	A	0.04	-0.2957557	0.05999047	1.37E-06
C	A	0.1	-0.1840206	0.03896051	3.55E-06

A	G	0.01	-0.5716605	0.1115294	5.39E-07
C	T	0.02	-0.416371	0.08797643	3.40E-06
T	TTTTCTTC	0.07	-0.2278313	0.04742848	2.46E-06
G	A	0.07	-0.228531	0.0471891	2.05E-06
C	A	0.26	0.1310283	0.02837076	5.69E-06
TTGTGTG	T	0.02	-0.3835613	0.08422272	7.57E-06
G	A	0.04	-0.2734557	0.05806082	3.77E-06
A	G	0.43	-0.1074094	0.02363573	7.90E-06
G	A	0.41	-0.1092616	0.02403995	7.88E-06
C	CT	0.03	0.3484552	0.07456945	4.46E-06
G	A	0.02	-0.3905559	0.08587527	7.78E-06
C	A	0.02	-0.3905559	0.08587527	7.78E-06
T	C	0.1	0.1950511	0.04247853	6.41E-06
CAGAG	C	0.3	0.1300558	0.02856066	7.58E-06
A	G	0.3	0.1302414	0.02857311	7.43E-06
G	A	0.3	0.1319907	0.02855948	5.61E-06
C	T	0.26	0.1447776	0.03047666	3.14E-06
G	T	0.27	0.140634	0.03015339	4.64E-06
C	T	0.06	-0.2411753	0.05291688	7.45E-06
A	G	0.07	-0.2333799	0.05156621	8.57E-06
T	C	0.05	-0.2720338	0.06007919	8.49E-06
A	G	0.07	-0.2419538	0.05316323	7.67E-06
A	C	0.07	-0.2419538	0.05316323	7.67E-06
G	C	0.04	-0.3024825	0.06671208	8.27E-06
G	A	0.05	-0.2720338	0.06007919	8.49E-06
T	C	0.05	-0.2720338	0.06007919	8.49E-06
C	T	0.05	-0.2720338	0.06007919	8.49E-06
T	C	0.05	-0.285118	0.06238093	7.04E-06
C	T	0.04	-0.3092293	0.06755234	6.82E-06
G	A	0.02	0.3838627	0.08515192	9.27E-06
A	G	0.06	0.251541	0.05397882	4.72E-06
C	T	0.24	0.1447156	0.03131791	5.63E-06
A	G	0.24	0.1455903	0.03131168	4.95E-06
A	G	0.22	0.1559935	0.03176614	1.50E-06
A	G	0.24	0.1478362	0.03129356	3.53E-06
T	C	0.24	0.1478362	0.03129356	3.53E-06
A	G	0.24	0.1478362	0.03129356	3.53E-06
A	G	0.24	0.1478362	0.03129356	3.53E-06
C	T	0.24	0.1478362	0.03129356	3.53E-06
G	T	0.24	0.1453537	0.03130932	5.11E-06
A	G	0.24	0.1478362	0.03129356	3.53E-06
A	C	0.2	0.1638151	0.03377952	1.99E-06
T	C	0.24	0.1536791	0.03141181	1.63E-06
G	GA	0.23	0.1461259	0.03168337	5.85E-06
G	C	0.24	0.1494518	0.03127805	2.76E-06
T	C	0.24	0.1549344	0.0314629	1.40E-06
T	C	0.26	0.141559	0.03062782	5.60E-06
C	G	0.24	0.1569827	0.03144135	1.02E-06
C	T	0.24	0.1565183	0.0314227	1.08E-06
C	T	0.24	0.1549344	0.0314629	1.40E-06

G	A	0.24	0.1520472	0.03158526	2.35E-06
A	G	0.24	0.1549344	0.0314629	1.40E-06
G	A	0.2	0.1541331	0.03349464	6.13E-06
C	A	0.24	0.1553937	0.03160894	1.46E-06
G	T	0.2	0.1543696	0.03285011	3.96E-06
A	G	0.24	0.1549344	0.0314629	1.40E-06
G	T	0.2	0.1541331	0.03349464	6.13E-06
CTAACT	C	0.2	0.1520937	0.03351805	8.14E-06
G	T	0.2	0.1541331	0.03349464	6.13E-06
C	T	0.26	0.1394042	0.03063094	7.67E-06
T	A	0.26	0.143082	0.03061074	4.43E-06
A	T	0.26	0.141559	0.03062782	5.60E-06
A	G	0.26	0.141559	0.03062782	5.60E-06
C	G	0.26	0.1385893	0.03065194	8.74E-06
G	A	0.07	-0.23153	0.04955036	4.46E-06
G	C	0.29	-0.1332961	0.02906482	6.57E-06
A	T	0.09	-0.2075612	0.04534118	6.82E-06
G	A	0.08	0.2115837	0.0468775	9.05E-06
C	T	0.08	0.2101307	0.04661687	9.29E-06
G	A	0.08	0.2179067	0.04756394	6.71E-06
C	A	0.08	0.2216219	0.04635721	2.73E-06
G	A	0.08	0.2184998	0.04648915	3.94E-06
G	T	0.08	0.2206397	0.04581814	2.33E-06
G	GGTGT	0.04	-0.3219061	0.06785148	3.23E-06
CT	C	0.21	-0.1581891	0.03473989	7.59E-06
T	C	0.37	0.1232913	0.02409191	5.61E-07
A	G	0.07	0.2190322	0.04838658	8.54E-06
T	C	0.07	0.2190322	0.04838658	8.54E-06
T	C	0.07	0.2251319	0.04852343	5.17E-06
C	CTGGA	0.27	0.1619611	0.03280067	1.32E-06
C	G	0.25	0.1380248	0.03054537	8.85E-06
AT	A	0.02	0.4499838	0.09357547	2.40E-06
A	T	0.14	0.1705875	0.03778841	9.02E-06
G	C	0.14	0.1708498	0.03733968	6.88E-06
T	G	0.15	0.1740532	0.03726011	4.49E-06
C	A	0.3	0.1257523	0.02753752	7.16E-06
A	G	0.3	0.124729	0.02759133	8.77E-06
T	G	0.31	0.1252864	0.02751689	7.60E-06
G	C	0.31	0.1267987	0.02749439	5.86E-06
C	CT	0.3	0.1255355	0.0275686	7.59E-06
C	T	0.31	0.1246	0.02743343	7.99E-06
A	G	0.3	0.1264166	0.02758242	6.65E-06
T	C	0.4	0.1222799	0.02682963	7.45E-06
A	C	0.39	0.1267961	0.02707165	4.24E-06
G	C	0.39	0.1236349	0.02715827	7.63E-06
TAA	T	0.03	0.376122	0.08075076	4.77E-06
C	T	0.07	-0.2272062	0.05008656	8.19E-06
T	C	0.07	-0.2272062	0.05008656	8.19E-06
G	A	0.07	-0.2272062	0.05008656	8.19E-06
GTTTAT	G	0.06	-0.2511158	0.05516007	7.62E-06

C	T	0.05	-0.3052128	0.06309123	2.10E-06
A	G	0.08	-0.2326985	0.04850897	2.53E-06
C	A	0.38	-0.2534808	0.05636136	9.71E-06
C	T	0.38	-0.2580677	0.05682066	7.99E-06
A	AT	0.4	-0.253022	0.05607194	9.09E-06
CTTAT	C	0.07	0.5245382	0.1060121	1.26E-06
T	TTA	0.01	1.196125	0.2618575	7.12E-06
A	T	0.44	-0.2409945	0.05235515	6.09E-06
T	C	0.44	-0.2436357	0.05250157	5.15E-06
G	T	0.44	-0.2376641	0.05237694	8.14E-06
G	A	0.44	-0.2412544	0.05244934	6.18E-06
A	C	0.44	-0.2433705	0.05240748	5.08E-06
T	C	0.44	-0.2385345	0.0523815	7.58E-06
A	C	0.44	-0.2451101	0.05227515	4.15E-06
A	G	0.44	-0.2443798	0.05225089	4.37E-06
C	A	0.44	-0.2429083	0.05234492	5.15E-06
A	G	0.44	-0.2402143	0.05230472	6.38E-06
C	T	0.44	-0.2450801	0.05233396	4.26E-06
T	C	0.44	-0.2415747	0.05232712	5.73E-06
CA	C	0.44	-0.2423563	0.05222212	5.15E-06
C	T	0.44	-0.2376641	0.05237694	8.14E-06
C	T	0.44	-0.241587	0.05227522	5.61E-06
G	A	0.44	-0.2366423	0.05223236	8.40E-06
G	A	0.47	-0.2343304	0.05187243	8.90E-06
A	G	0.44	-0.2412544	0.05244934	6.18E-06
GTTTCT	G	0.45	-0.2394337	0.05226665	6.72E-06
A	G	0.44	-0.2376641	0.05237694	8.14E-06
C	A	0.47	-0.2337095	0.05183747	9.25E-06
G	C	0.44	-0.2438403	0.05229186	4.66E-06
T	TC	0.44	-0.2389663	0.05232561	7.15E-06
A	G	0.44	-0.2376641	0.05237694	8.14E-06
T	C	0.44	-0.2439908	0.05237543	4.75E-06
T	A	0.44	-0.2403815	0.05207831	5.76E-06
C	A	0.44	-0.2378935	0.05220487	7.48E-06
G	A	0.47	-0.2343304	0.05187243	8.90E-06
A	G	0.44	-0.2412544	0.05244934	6.18E-06
T	C	0.47	-0.2377607	0.05181338	6.49E-06
T	C	0.44	-0.2445852	0.0523705	4.51E-06
T	A	0.44	-0.2416299	0.05233516	5.73E-06
T	C	0.44	-0.2438909	0.05227652	4.61E-06
A	G	0.44	-0.2375097	0.05237182	8.23E-06
C	T	0.44	-0.2412544	0.05244934	6.18E-06
C	G	0.44	-0.2435379	0.05229713	4.79E-06
T	C	0.44	-0.2482307	0.05225651	3.14E-06
A	C	0.44	-0.236893	0.05233015	8.53E-06
T	A	0.44	-0.2412544	0.05244934	6.18E-06
A	G	0.44	-0.2550092	0.05225904	1.73E-06
C	T	0.47	-0.2343304	0.05187243	8.90E-06
A	T	0.44	-0.2401074	0.05248233	6.90E-06
A	G	0.44	-0.2412544	0.05244934	6.18E-06

GC	G	0.45	-0.235287	0.05218894	9.26E-06
A	G	0.47	-0.2337095	0.05183747	9.25E-06
GA	G	0.48	-0.2401035	0.05167946	5.03E-06
T	G	0.47	-0.2343304	0.05187243	8.90E-06
T	G	0.48	-0.2367722	0.05183942	7.14E-06
G	GT	0.48	-0.2391549	0.05171475	5.54E-06
T	G	0.47	-0.2337095	0.05183747	9.25E-06
G	A	0.44	-0.2412544	0.05244934	6.18E-06
C	A	0.43	-0.2437225	0.05260295	5.32E-06
T	C	0.44	-0.2412544	0.05244934	6.18E-06
T	C	0.47	-0.2336609	0.05193098	9.62E-06
A	C	0.47	-0.2336609	0.05193098	9.62E-06
A	G	0.44	-0.2436228	0.0524898	5.14E-06
T	C	0.47	-0.2346944	0.05184428	8.53E-06
C	T	0.44	-0.2506567	0.05241783	2.72E-06
T	C	0.44	-0.2395757	0.05230099	6.73E-06
G	A	0.43	-0.2457888	0.05197093	3.45E-06
C	T	0.02	-0.9170356	0.1961205	4.40E-06
G	C	0.01	-1.22839	0.2437111	8.12E-07
T	A	0.26	0.2683262	0.05967009	9.74E-06
T	G	0.26	0.2793604	0.05997354	4.76E-06
A	T	0.26	0.2683262	0.05967009	9.74E-06
C	A	0.26	0.269077	0.05962628	9.08E-06
A	G	0.26	0.2683262	0.05967009	9.74E-06
AT	A	0.26	0.2765188	0.05977415	5.50E-06
T	G	0.26	0.2739489	0.05960456	6.28E-06
TAAA	T	0.26	0.2821773	0.05929914	3.02E-06
A	G	0.27	0.2640813	0.05833025	8.52E-06
C	T	0.26	0.272408	0.06011257	8.36E-06
T	C	0.26	0.2764663	0.05942563	4.89E-06
G	T	0.26	0.2875375	0.05955963	2.20E-06
G	A	0.21	-0.3120906	0.06512353	2.59E-06
T	C	0.22	-0.2915278	0.06432772	8.35E-06
G	GT	0.19	-0.3013023	0.0670543	9.88E-06
A	T	0.21	-0.3030576	0.06639116	7.22E-06
G	GT	0.19	-0.3185478	0.06843782	4.84E-06
A	ACATTTGTAATCC	0.18	-0.3353007	0.06944026	2.19E-06
C	T	0.18	-0.3240605	0.06913474	4.17E-06
A	G	0.23	-0.2865537	0.06351704	9.13E-06
T	TACACACAC	0.18	-0.3384099	0.0743485	7.65E-06
A	C	0.02	-0.9910909	0.2124399	4.61E-06
A	C	0.02	-0.9910909	0.2124399	4.61E-06
C	T	0.47	-0.2421436	0.05341421	8.30E-06
T	A	0.13	-0.3517485	0.07750493	8.11E-06
C	T	0.13	-0.3434583	0.07598138	8.78E-06
C	CATAGATAGATAG	0.01	-1.113651	0.2421924	6.23E-06
A	C	0.4	-0.2440361	0.05311364	6.33E-06
T	C	0.1	-0.4108798	0.08854776	5.16E-06
T	CTCCTCCTCCTCCTCC	0.04	-0.6649178	0.1390517	2.72E-06
A	G	0.34	-0.2554899	0.05578537	6.75E-06

T	C	0.34	-0.2491249	0.05533228	9.50E-06
T	G	0.34	-0.2627595	0.05558112	3.48E-06
T	C	0.09	-0.3859071	0.08556994	9.20E-06
TATCCATCCATCC	T	0.02	0.8853271	0.1970082	9.86E-06
T	TCATTCACCA	0.03	-0.7850653	0.1624888	2.16E-06
GT	G	0.11	-0.3897042	0.08528243	7.07E-06
ATG	A	0.06	-0.5123203	0.1127384	7.90E-06
T	C	0.02	-0.9708057	0.2078853	4.52E-06
A	G	0.01	1.033067	0.2260926	7.08E-06
G	C	0.14	0.332471	0.07324674	8.09E-06
T	G	0.14	0.3284392	0.07261818	8.69E-06
C	A	0.14	0.332471	0.07324674	8.09E-06
A	T	0.12	0.367203	0.08044656	7.23E-06
TGCAGA	T	0.14	0.367783	0.07806005	3.74E-06
A	T	0.15	0.3439855	0.07640204	9.51E-06
C	T	0.12	0.3911598	0.08005009	1.68E-06
C	A	0.14	0.3588093	0.07645902	4.07E-06
A	G	0.14	0.3578387	0.07800975	6.54E-06
C	G	0.14	0.3734099	0.07780918	2.51E-06
G	A	0.15	0.3439855	0.07640204	9.51E-06
T	A	0.14	0.3706281	0.0772683	2.54E-06
C	G	0.14	0.3734099	0.07780918	2.51E-06
G	A	0.14	0.3839682	0.07660085	9.26E-07
A	G	0.14	0.3661776	0.07609941	2.37E-06
C	G	0.14	0.3641027	0.07608518	2.67E-06
A	G	0.13	0.3751228	0.0780375	2.42E-06
A	G	0.14	0.3734099	0.07780918	2.51E-06
A	G	0.14	0.3734099	0.07780918	2.51E-06
C	T	0.14	0.3646154	0.07409437	1.43E-06
G	T	0.15	0.3410904	0.07574913	9.48E-06
C	A	0.14	0.3734099	0.07780918	2.51E-06
G	A	0.14	0.3734099	0.07780918	2.51E-06
T	C	0.14	0.3734099	0.07780918	2.51E-06
A	G	0.14	0.3752214	0.07759819	2.12E-06
G	T	0.14	0.3734099	0.07780918	2.51E-06
T	C	0.15	0.3439855	0.07640204	9.51E-06
C	G	0.14	0.3734099	0.07780918	2.51E-06
G	T	0.14	0.3734099	0.07780918	2.51E-06
C	G	0.14	0.3763154	0.07788192	2.16E-06
T	A	0.15	0.3439855	0.07640204	9.51E-06
T	A	0.15	0.3439855	0.07640204	9.51E-06
T	C	0.14	0.3734099	0.07780918	2.51E-06
C	T	0.14	0.3664661	0.07772568	3.69E-06
G	A	0.14	0.3879529	0.07778779	1.04E-06
T	C	0.15	0.3439855	0.07640204	9.51E-06
G	C	0.14	0.3734099	0.07780918	2.51E-06
G	T	0.15	0.3439855	0.07640204	9.51E-06
G	T	0.14	0.3734099	0.07780918	2.51E-06
A	G	0.14	0.3734099	0.07780918	2.51E-06
A	G	0.14	0.3734099	0.07780918	2.51E-06

TAGCATT	T	0.13	0.368493	0.07848416	4.03E-06
C	T	0.14	0.3734099	0.07780918	2.51E-06
TG	T	0.13	0.3601921	0.07877865	6.99E-06
G	A	0.12	0.3724957	0.08114023	6.43E-06
C	T	0.12	0.3764218	0.08097726	4.97E-06
A	G	0.12	0.3764218	0.08097726	4.97E-06
G	A	0.12	0.3764218	0.08097726	4.97E-06
G	A	0.12	0.3665644	0.08126376	9.16E-06
C	T	0.12	0.3764218	0.08097726	4.97E-06
G	C	0.12	0.3764218	0.08097726	4.97E-06
G	A	0.12	0.3662221	0.08100535	8.76E-06
AAGAT	A	0.04	-0.6706747	0.1445236	5.15E-06
T	C	0.27	-0.2773972	0.05836534	3.10E-06
C	CGTGTGT	0.28	-0.3055858	0.06228865	1.53E-06
AAATAAATAAATAA	A	0.01	-1.045781	0.227235	6.12E-06
A	G	0.02	-0.9138003	0.2000785	7.14E-06
A	C	0.05	-0.5907051	0.1273821	5.23E-06
G	C	0.19	-0.3120845	0.06754824	5.64E-06
G	A	0.46	0.2464418	0.05462284	9.12E-06
G	A	0.01	-0.5499983	0.08917959	2.52E-09
C	T	0.01	-0.5499983	0.08917959	2.52E-09
T	TA	0.02	-0.40456	0.08794321	6.17E-06
A	G	0.02	-0.3872597	0.08084434	2.62E-06
C	CACACACACAT	0.01	-0.5333117	0.1031491	4.35E-07
G	A	0.04	-0.2744988	0.05925498	5.34E-06
T	C	0.03	-0.280719	0.0622569	9.23E-06
G	A	0.01	-0.4590786	0.09679443	3.25E-06
C	T	0.01	-0.4590786	0.09679443	3.25E-06
C	G	0.01	-0.4590786	0.09679443	3.25E-06
C	G	0.05	-0.2273602	0.05005459	7.98E-06
A	C	0.02	-0.3507858	0.07627548	6.21E-06
T	A	0.01	-0.4377322	0.09128607	2.56E-06
TCACACA	T	0.02	-0.3588411	0.07719155	4.97E-06
C	T	0.5	-0.0971862	0.02141026	8.08E-06
A	G	0.05	-0.2293645	0.04949632	5.31E-06
A	G	0.04	-0.244077	0.05334703	6.89E-06
T	C	0.02	-0.3508841	0.07447567	3.75E-06
C	T	0.02	-0.3374411	0.06924923	1.79E-06
A	G	0.04	-0.2534358	0.05353279	3.38E-06
T	A	0.04	-0.2523553	0.05439977	5.19E-06
C	T	0.24	-0.115114	0.02556821	9.51E-06
C	T	0.24	-0.1188397	0.02605666	7.35E-06
T	G	0.24	-0.1160559	0.02584108	9.98E-06
A	G	0.08	-0.1811493	0.03804375	2.98E-06
G	T	0.08	-0.1790413	0.03912016	6.85E-06
A	T	0.08	-0.1792787	0.03893617	6.06E-06
C	A	0.07	-0.1888408	0.04083303	5.53E-06
C	T	0.07	-0.1888408	0.04083303	5.53E-06
C	T	0.07	-0.1888408	0.04083303	5.53E-06
A	T	0.07	-0.1892138	0.04082398	5.29E-06

C	T	0.07	-0.195918	0.04105268	2.84E-06
G	A	0.07	-0.1999308	0.04168524	2.54E-06
T	G	0.07	-0.1953806	0.04066114	2.44E-06
C	G	0.07	-0.1953806	0.04066114	2.44E-06
A	AGTGTGT	0.04	-0.2776138	0.05718848	1.95E-06
T	C	0.13	0.1533248	0.0339638	9.02E-06
A	T	0.13	0.1557667	0.03414607	7.32E-06
G	A	0.39	0.1038526	0.02265774	6.64E-06
T	C	0.01	-0.5325697	0.09589457	6.43E-08
A	G	0.01	-0.4713414	0.09628206	1.61E-06
C	T	0.02	-0.3693397	0.07567524	1.72E-06
T	C	0.02	-0.349458	0.07653713	7.19E-06
A	AT	0.12	-0.1526435	0.03381264	9.01E-06
A	G	0.01	-0.4860408	0.1022402	3.09E-06
ATG	A	0.02	-0.3984181	0.08307317	2.55E-06
AAG	A	0.01	-0.4730346	0.1039296	7.66E-06
T	C	0.02	-0.3918844	0.08543367	6.54E-06
A	G	0.02	-0.3766801	0.0765983	1.45E-06
TTAAC	T	0.01	-0.4629184	0.1028905	9.64E-06
T	TACACACACACACAC	0.02	-0.3336509	0.07374237	8.62E-06
C	A	0.01	-0.4102781	0.08908477	6.03E-06
C	T	0.01	-0.4515816	0.09532462	3.33E-06
A	ACT	0.02	-0.4185654	0.09302438	9.62E-06
G	A	0.02	-0.4119548	0.09034012	7.37E-06
G	A	0.02	-0.340253	0.07490724	7.97E-06
T	TA	0.02	-0.340253	0.07490724	7.97E-06
G	T	0.02	-0.4047994	0.08901968	7.80E-06
G	A	0.04	-0.2388647	0.05225894	7.03E-06
TTG	T	0.01	-0.4890386	0.101086	2.10E-06
C	T	0.01	-0.4890386	0.101086	2.10E-06
T	A	0.01	-0.5147638	0.1106823	4.92E-06
T	C	0.07	-0.1982536	0.04160543	2.93E-06
G	T	0.03	-0.2854985	0.05927451	2.32E-06
T	C	0.01	-0.5082222	0.1006482	7.77E-07
T	C	0.07	-0.1897565	0.04164199	7.48E-06
G	A	0.03	-0.3044881	0.06059802	8.74E-07
G	A	0.02	-0.3385372	0.07526802	9.70E-06
GATAGATAC	G	0.02	-0.3544471	0.07650041	5.32E-06
G	A	0.03	-0.3052526	0.06383726	2.72E-06
C	A	0.01	-0.4957505	0.1043838	3.15E-06
C	A	0.04	-0.2576636	0.05669758	7.90E-06
G	A	0.01	-0.5358551	0.102384	3.19E-07
T	TTTTATTTA	0.01	-0.4716494	0.09916926	3.06E-06
CCT	C	0.14	-0.1452714	0.03185071	7.34E-06
G	A	0.01	-0.4919465	0.1018219	2.16E-06
A	G	0.04	-0.2663008	0.05654522	3.78E-06
A	G	0.04	-0.2804161	0.05732293	1.63E-06
A	G	0.04	-0.2804161	0.05732293	1.63E-06
G	ATAGATATAGATATAG	0.01	-0.4345159	0.09331985	4.80E-06
C	A	0.13	0.1509615	0.03356087	9.68E-06

A	C	0.03	-0.2969922	0.0636708	4.63E-06
C	A	0.03	-0.3143255	0.06402855	1.51E-06
T	G	0.28	-0.1137299	0.02475851	6.36E-06
G	A	0.03	-0.30983	0.06637988	4.57E-06
G	A	0.03	-0.30983	0.06637988	4.57E-06
TAC	T	0.01	-0.5207898	0.09556756	1.09E-07
C	T	0.01	-0.4838623	0.1071576	8.97E-06
C	T	0.34	-0.108701	0.02366129	6.34E-06
A	G	0.34	-0.1084171	0.0234548	5.59E-06
T	C	0.34	-0.110257	0.02349442	4.07E-06
G	C	0.33	-0.109382	0.02368635	5.70E-06
T	TTCTCTCTCTC	0.02	-0.4285489	0.09024849	3.16E-06
T	C	0.02	-0.3819792	0.08204905	4.82E-06
C	T	0.02	-0.3777035	0.07913143	2.83E-06
G	C	0.02	-0.40339	0.08045832	9.22E-07
C	T	0.02	-0.3514771	0.07328816	2.55E-06
C	T	0.01	-0.499146	0.1027988	1.93E-06
T	TTC	0.06	-0.2083788	0.04570771	7.41E-06
G	A	0.38	-0.1061219	0.02140897	1.21E-06
T	C	0.42	-0.0944387	0.02015711	4.22E-06
C	A	0.36	-0.1021024	0.02206726	5.48E-06
G	A	0.24	-0.1140322	0.02512116	8.08E-06
G	A	0.01	-0.5201598	0.1097464	3.29E-06
A	G	0.02	-0.3755274	0.08193218	6.65E-06
A	G	0.01	-0.4383196	0.09519435	6.05E-06
GTCTC	G	0.01	-0.4315549	0.0946379	7.37E-06
TA	T	0.01	-0.4281651	0.09282571	5.84E-06
A	G	0.04	-0.2670132	0.05802858	6.14E-06
C	T	0.04	-0.2670132	0.05802858	6.14E-06
C	T	0.33	-0.1105066	0.02334162	3.38E-06
A	T	0.32	-0.1050593	0.02317256	8.28E-06
G	A	0.32	-0.1090534	0.0233322	4.44E-06
C	T	0.32	-0.1117239	0.02324215	2.42E-06
G	A	0.32	-0.1085008	0.02348101	5.63E-06
T	G	0.32	-0.1112696	0.0232556	2.68E-06
C	G	0.32	-0.1103894	0.02320635	3.05E-06
G	A	0.32	-0.1142918	0.02323855	1.45E-06
G	A	0.32	-0.1112696	0.0232556	2.68E-06
A	G	0.33	-0.1082105	0.02322988	4.76E-06
G	A	0.31	-0.1035444	0.02257183	6.53E-06
G	T	0.02	-0.4030776	0.07754834	3.80E-07
A	G	0.01	-0.4588574	0.09704773	3.47E-06
C	T	0.01	-0.4454227	0.09670628	6.01E-06
C	T	0.01	-0.4363555	0.093509	4.59E-06
A	T	0.4	0.0988475	0.02154361	6.51E-06
C	CA	0.4	0.1003142	0.02146011	4.43E-06
G	T	0.4	0.09757331	0.0215215	8.28E-06
A	G	0.43	0.0969354	0.02143041	8.67E-06
A	AT	0.43	0.09769286	0.02136488	6.98E-06
CT	C	0.43	0.1006461	0.0215244	4.40E-06

G	T	0.42	0.1022196	0.02167718	3.68E-06
A	G	0.33	0.1048366	0.02238314	4.24E-06
GGTGTGTGT	G	0.08	-0.189424	0.04125362	6.41E-06
C	G	0.01	-0.4721385	0.09682888	1.76E-06
C	T	0.31	-0.1134247	0.02386338	3.10E-06
C	T	0.31	-0.112938	0.02384889	3.36E-06
C	A	0.03	-0.2853394	0.06211159	6.34E-06
TTTTATTTA	T	0.08	-0.1868055	0.04043985	5.67E-06
T	G	0.02	-0.3972758	0.08694581	7.08E-06
A	AT	0.02	-0.3972758	0.08694581	7.08E-06
CA	C	0.02	-0.3972758	0.08694581	7.08E-06
C	T	0.02	-0.3972758	0.08694581	7.08E-06
C	T	0.01	-0.594823	0.1095728	1.21E-07
G	C	0.01	-0.4611689	0.09116338	7.44E-07
G	A	0.45	0.09650281	0.02120494	7.68E-06
A	G	0.48	0.09938548	0.02185623	7.80E-06
C	T	0.39	0.101654	0.02217879	6.65E-06
C	T	0.02	-0.3278577	0.07184055	7.26E-06
C	T	0.01	-0.489774	0.101806	2.38E-06
C	A	0.01	-0.455825	0.09308862	1.60E-06
C	T	0.22	0.2813228	0.06216705	8.64E-06
T	C	0.24	0.2796857	0.0594054	3.83E-06
T	G	0.25	0.2675482	0.05932813	9.25E-06
A	G	0.22	-0.293381	0.06512319	9.44E-06
G	A	0.02	0.8569809	0.1778226	2.30E-06
C	T	0.44	-0.2421365	0.05376177	9.49E-06
C	T	0.44	-0.2421365	0.05376177	9.49E-06
C	T	0.44	-0.2421365	0.05376177	9.49E-06
G	A	0.44	-0.2421365	0.05376177	9.49E-06
C	T	0.43	-0.2451827	0.05366462	7.13E-06
A	G	0.43	-0.2445061	0.0536327	7.45E-06
G	A	0.43	-0.2417936	0.05319758	7.91E-06
A	G	0.43	-0.2395236	0.05327391	9.82E-06
G	A	0.01	1.149519	0.2442173	3.84E-06
C	T	0.01	1.149519	0.2442173	3.84E-06
C	T	0.03	0.7193142	0.1509474	2.95E-06
G	A	0.01	-1.001545	0.2227143	9.78E-06
T	G	0.4	-0.2406485	0.05183332	5.13E-06
A	AT	0.05	-0.5165001	0.1131874	7.31E-06
T	TTC	0.01	1.080314	0.229125	3.71E-06
A	G	0.49	0.2329796	0.04988952	4.54E-06
A	T	0.03	-0.7452491	0.1605901	5.18E-06
T	C	0.03	-0.7452491	0.1605901	5.18E-06
A	G	0.03	-0.7452491	0.1605901	5.18E-06
G	C	0.03	-0.6479609	0.143621	9.17E-06
G	C	0.03	-0.6479609	0.143621	9.17E-06
G	T	0.03	-0.7405813	0.1561872	3.29E-06
C	CT	0.03	-0.6746714	0.1477729	7.23E-06
T	G	0.1	-0.4613742	0.08531466	1.36E-07
C	T	0.1	-0.4237235	0.08865778	2.77E-06

A	G	0.1	-0.4280437	0.08738908	1.60E-06
G	T	0.07	-0.4778298	0.1013375	3.70E-06
A	G	0.07	-0.4549742	0.09969398	7.29E-06
T	A	0.07	-0.4673722	0.1017581	6.41E-06
T	C	0.1	-0.4397733	0.0860337	5.82E-07
C	T	0.07	-0.5027086	0.1052797	2.82E-06
C	G	0.07	-0.5147686	0.1013402	6.79E-07
A	G	0.07	-0.4955986	0.1057985	4.26E-06
G	C	0.05	-0.5595331	0.1201446	4.81E-06
T	A	0.02	-0.9019194	0.1871987	2.32E-06
A	G	0.07	-0.4449136	0.09865428	9.24E-06
A	G	0.08	-0.4415007	0.09651518	6.96E-06
G	A	0.07	-0.4449136	0.09865428	9.24E-06
G	A	0.07	-0.4449136	0.09865428	9.24E-06
T	A	0.08	-0.4441003	0.09827916	8.89E-06
G	A	0.02	-0.8085239	0.1762902	6.60E-06
A	G	0.16	-0.3038153	0.06700988	8.32E-06
TTGTG	T	0.12	-0.3981079	0.08353739	2.95E-06
G	A	0.03	-0.731436	0.1573438	5.00E-06
G	A	0.01	-1.23506	0.2567961	2.41E-06
T	TTTTA	0.03	0.6574711	0.1435477	6.78E-06
TA	T	0.03	-0.7250416	0.1551482	4.48E-06
A	G	0.03	-0.7329502	0.1519559	2.26E-06
C	T	0.03	-0.7347498	0.1501509	1.63E-06
A	G	0.46	-0.2286174	0.04963955	6.06E-06
AT	A	0.15	-0.3013303	0.06533932	5.89E-06
C	CTCTTCTCT	0.02	0.7816616	0.1733709	9.29E-06
C	A	0.07	0.4424361	0.09747975	8.14E-06
T	C	0.07	0.4634988	0.09985815	5.16E-06
TA	T	0.03	0.7617341	0.1641051	5.16E-06
C	CA	0.01	-1.132519	0.243923	5.13E-06
T	TCCTTCC	0.02	-0.7822085	0.1739536	9.79E-06
C	T	0.07	0.4679727	0.1034593	8.72E-06
G	A	0.02	-0.8444787	0.1864023	8.45E-06
A	G	0.1	0.382645	0.08514663	9.91E-06
GGAATGGAGAATGG,	C	0.05	-0.5483866	0.1182046	5.21E-06
G	A	0.2	-0.2897251	0.06341358	7.13E-06
G	A	0.2	-0.2897251	0.06341358	7.13E-06
G	A	0.2	-0.2897251	0.06341358	7.13E-06
G	A	0.2	-0.2897251	0.06341358	7.13E-06
A	AT	0.2	-0.2861638	0.06366938	9.88E-06
T	C	0.21	-0.2926157	0.06330858	5.63E-06
T	G	0.26	0.2711192	0.0583351	5.02E-06
C	T	0.26	0.2745321	0.05855865	4.19E-06
G	A	0.26	0.2747542	0.05834259	3.80E-06
T	A	0.19	0.3193554	0.06792666	3.94E-06
G	A	0.02	0.8519225	0.1889426	9.28E-06
T	C	0.03	0.6998046	0.1547621	8.77E-06
G	A	0.03	0.7110497	0.1548918	6.47E-06
AAG	A	0.01	-1.144918	0.2537701	9.17E-06

T	TA	0.27	-0.2897493	0.06356189	7.46E-06
G	A	0.02	-0.7649231	0.1647235	5.11E-06
T	C	0.03	-0.7082979	0.1458945	1.95E-06
C	T	0.01	-1.288007	0.2551782	7.91E-07
TACTC	T	0.06	-0.5184175	0.1103971	4.04E-06
A	T	0.06	-0.5159254	0.1098431	4.02E-06
C	T	0.03	-0.690324	0.1531086	9.29E-06
T	C	0.04	0.6639639	0.1326529	9.67E-07
C	T	0.04	0.6639639	0.1326529	9.67E-07
C	T	0.04	0.6639639	0.1326529	9.67E-07
C	T	0.01	-1.028071	0.2264242	8.08E-06
G	A	0.01	-1.10632	0.2283568	2.05E-06
G	A	0.01	0.5712426	0.09475572	6.77E-09
C	T	0.01	0.5712426	0.09475572	6.77E-09
G	T	0.3	0.1227217	0.02687225	7.15E-06
G	GT	0.03	0.3500762	0.07410659	3.54E-06
T	TA	0.03	0.3073792	0.06045573	6.58E-07
A	AC	0.03	0.3122566	0.06891591	8.38E-06
TTG	T	0.08	0.2246024	0.04737914	3.28E-06
A	C	0.03	0.3537452	0.07864909	9.70E-06
C	T	0.03	0.3537452	0.07864909	9.70E-06
A	G	0.03	0.3537452	0.07864909	9.70E-06
C	T	0.03	0.3748288	0.079112	3.32E-06
T	C	0.03	0.3537452	0.07864909	9.70E-06
A	G	0.01	0.4690817	0.09950995	3.70E-06
A	G	0.13	0.1596489	0.03520893	8.26E-06
T	TTC	0.01	0.5180595	0.107211	2.16E-06
C	T	0.03	0.3530853	0.06643409	2.14E-07
T	C	0.43	0.1124916	0.02251795	1.00E-06
T	C	0.41	0.1121579	0.02496936	9.95E-06
T	C	0.43	0.1137418	0.02516723	8.82E-06
T	C	0.43	0.1137418	0.02516723	8.82E-06
T	C	0.42	0.1146203	0.0249789	6.49E-06
A	G	0.39	0.1085639	0.02416148	9.89E-06
G	A	0.43	0.1137418	0.02516723	8.82E-06
T	A	0.43	0.1172584	0.02504499	4.28E-06
G	A	0.43	0.1137418	0.02516723	8.82E-06
T	C	0.43	0.1169017	0.02508691	4.73E-06
C	T	0.43	0.1137418	0.02516723	8.82E-06
C	G	0.43	0.1137418	0.02516723	8.82E-06
C	T	0.41	0.1094027	0.0227525	2.41E-06
T	TTG	0.01	0.5144363	0.1038108	1.21E-06
G	C	0.01	0.5525872	0.1170664	3.60E-06
G	C	0.05	0.2607783	0.05678357	6.39E-06
C	A	0.19	0.1411863	0.031219	8.70E-06
C	T	0.2	0.1387013	0.03028306	6.74E-06
G	A	0.2	0.1366906	0.03022399	8.70E-06
G	A	0.37	0.1136163	0.02529297	9.94E-06
CA	C	0.16	-0.1502946	0.0332971	9.04E-06
AC	A	0.16	-0.1598832	0.03343414	2.71E-06

C	G	0.06	0.2282029	0.04879195	4.37E-06
T	C	0.06	0.2284416	0.04952195	5.83E-06
T	A	0.02	0.4651071	0.1007198	5.70E-06
A	G	0.32	-0.1150362	0.02511913	6.76E-06
T	G	0.14	0.1582016	0.03494623	8.53E-06
G	GAAGA	0.08	0.2174321	0.04407751	1.35E-06
T	A	0.01	0.5579734	0.1210207	5.89E-06
GTGTA	G	0.21	0.1374952	0.02968706	5.37E-06
G	GTC	0.03	0.321789	0.07085326	8.00E-06
A	G	0.05	0.2659299	0.05850668	7.87E-06
A	G	0.34	0.1117419	0.02413346	5.40E-06
T	A	0.28	0.1346556	0.02740582	1.48E-06
A	G	0.14	0.1575661	0.03498502	9.44E-06
G	A	0.05	0.2694498	0.05624408	2.61E-06
G	T	0.05	0.2696839	0.05575762	2.11E-06
A	G	0.03	0.3246279	0.07104783	7.08E-06
G	T	0.02	0.4726438	0.1006701	4.03E-06
T	TTTGTTGTTGTTG	0.01	0.6501734	0.1155977	4.47E-08
A	G	0.02	0.385439	0.08102696	3.04E-06
G	A	0.04	0.3450969	0.06419575	1.58E-07
T	C	0.04	0.3022565	0.06227581	1.95E-06
C	T	0.27	-0.1247813	0.0276559	9.11E-06
C	CTA	0.02	0.4135989	0.09040149	6.90E-06
C	T	0.04	0.3000917	0.06639521	8.80E-06
T	G	0.02	0.4220298	0.09282261	7.82E-06
G	A	0.03	0.3564474	0.07223775	1.34E-06
G	A	0.45	0.1258737	0.02673345	3.80E-06
T	G	0.5	0.1294588	0.0264161	1.57E-06
C	T	0.5	-0.1379112	0.02678641	4.83E-07
G	T	0.5	-0.1398626	0.02668993	3.09E-07
C	A	0.42	0.1364651	0.0261655	3.49E-07
A	G	0.42	0.1303273	0.026271	1.18E-06
A	C	0.42	0.1343343	0.026303	5.89E-07
G	A	0.41	0.1324344	0.02630306	8.33E-07
G	T	0.42	0.1336271	0.02624391	6.35E-07
C	T	0.42	0.1306026	0.02623624	1.09E-06
T	C	0.41	0.138414	0.02628857	2.73E-07
G	C	0.43	0.1280635	0.0266657	2.47E-06
TCA	T	0.49	-0.1393872	0.02698985	4.47E-07
CA	C	0.49	-0.1393872	0.02698985	4.47E-07
C	T	0.42	0.1294107	0.02617224	1.28E-06
A	G	0.42	0.129475	0.02626186	1.37E-06
C	CA	0.47	-0.1285337	0.02708723	3.21E-06
A	T	0.04	0.2937716	0.06475278	8.17E-06
C	T	0.03	-0.3704278	0.08063868	6.35E-06
GC	G	0.3	-0.1366001	0.02909212	4.03E-06
T	G	0.3	-0.1336158	0.02888433	5.50E-06
C	T	0.02	0.4970978	0.09966698	1.04E-06
C	G	0.02	0.5140958	0.09117045	4.15E-08
CACACAT	C	0.02	0.4447775	0.08686437	5.53E-07

C	T	0.02	0.431973	0.0911016	3.26E-06
A	G	0.02	0.4237142	0.08466403	9.62E-07
G	A	0.02	0.4237142	0.08466403	9.62E-07
A	G	0.03	0.4046611	0.08240624	1.50E-06
G	A	0.03	0.4046611	0.08240624	1.50E-06
C	T	0.03	0.4046611	0.08240624	1.50E-06
C	T	0.03	0.4046611	0.08240624	1.50E-06
C	A	0.33	0.122969	0.02684386	6.72E-06
AAACAACAACAAC	A	0.09	-0.212709	0.04598101	5.50E-06
T	C	0.38	-0.1234552	0.02647272	4.65E-06
T	C	0.39	0.1239445	0.02725043	7.76E-06
TGTC A	T	0.14	-0.1678093	0.03580603	4.19E-06
G	A	0.14	-0.1636762	0.03592647	7.51E-06
C	G	0.07	0.2448409	0.05182533	3.53E-06
T	C	0.07	0.2330656	0.05156077	8.79E-06
C	G	0.07	0.2330656	0.05156077	8.79E-06
G	T	0.07	0.2380287	0.05229589	7.65E-06
A	G	0.07	0.2380287	0.05229589	7.65E-06
C	T	0.07	0.2380287	0.05229589	7.65E-06
C	A	0.07	0.2380287	0.05229589	7.65E-06
G	A	0.07	0.2380287	0.05229589	7.65E-06
C	T	0.07	0.2436437	0.05173976	3.79E-06
T	C	0.07	0.2396014	0.05241013	7.00E-06
G	C	0.31	-0.1252635	0.02774575	9.00E-06
T	C	0.31	-0.1297337	0.02777899	4.51E-06
A	G	0.31	-0.1252635	0.02774575	9.00E-06
C	T	0.31	-0.1268153	0.0276619	6.62E-06
A	G	0.31	-0.1285952	0.0278793	5.84E-06
G	A	0.31	-0.1260213	0.02772154	7.85E-06
C	T	0.31	-0.1297337	0.02777899	4.51E-06
A	G	0.31	-0.1313736	0.02777586	3.45E-06
A	G	0.31	-0.1304646	0.02769911	3.77E-06
C	G	0.31	-0.1258426	0.02783815	8.78E-06
A	G	0.31	-0.1258426	0.02783815	8.78E-06
A	G	0.31	-0.1267147	0.02775292	7.19E-06
G	T	0.32	-0.1238272	0.02754402	9.79E-06
C	G	0.02	0.4616513	0.1010618	7.12E-06
C	T	0.02	0.4616513	0.1010618	7.12E-06
T	C	0.02	0.4616513	0.1010618	7.12E-06
T	C	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
A	C	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.02	0.4616513	0.1010618	7.12E-06
A	C	0.02	0.4616513	0.1010618	7.12E-06
G	A	0.25	-0.1385351	0.03072636	9.24E-06
T	A	0.01	0.5083506	0.1109026	6.64E-06

A	T	0.23	0.1422869	0.03106948	6.76E-06
T	C	0.17	0.1658525	0.03391436	1.65E-06
A	G	0.16	0.1582572	0.03457005	6.81E-06
G	A	0.16	0.1602183	0.03465424	5.57E-06
C	G	0.16	0.1607594	0.03459083	5.00E-06
C	T	0.16	0.1604185	0.03465907	5.44E-06
T	C	0.16	0.1604185	0.03465907	5.44E-06
G	A	0.15	0.1772583	0.03496525	7.06E-07
G	A	0.16	0.1604185	0.03465907	5.44E-06
G	A	0.16	0.1604185	0.03465907	5.44E-06
T	C	0.16	0.1577409	0.03468904	7.80E-06
A	T	0.16	0.1604185	0.03465907	5.44E-06
A	G	0.17	0.1473511	0.03279224	9.88E-06
C	T	0.17	0.1515593	0.0329378	6.14E-06
TTTGTA	T	0.12	0.1983498	0.04044259	1.54E-06
ACT	A	0.12	0.1945427	0.04041654	2.35E-06
G	A	0.13	0.1828024	0.0395711	5.66E-06
G	A	0.12	0.2019363	0.04057578	1.10E-06
C	T	0.12	0.1939319	0.04022861	2.27E-06
C	T	0.12	0.2036229	0.04037057	7.98E-07
C	CA	0.1	0.2107693	0.04445772	3.28E-06
C	T	0.12	0.1879238	0.04089053	6.29E-06
C	T	0.12	0.2036229	0.04037057	7.98E-07
G	C	0.12	0.2036229	0.04037057	7.98E-07
T	C	0.12	0.2036229	0.04037057	7.98E-07
G	A	0.12	0.1935563	0.04062141	2.94E-06
G	C	0.12	0.2036229	0.04037057	7.98E-07
G	C	0.12	0.1997877	0.04084567	1.64E-06
G	A	0.12	0.2036229	0.04037057	7.98E-07
ACTC	A	0.12	0.2070115	0.04043838	5.56E-07
A	C	0.12	0.2036229	0.04037057	7.98E-07
GACAC	G	0.11	0.1949252	0.04195965	5.04E-06
A	G	0.13	0.191515	0.03830147	9.82E-07
A	AAG	0.12	0.1915626	0.03870181	1.25E-06
T	C	0.15	0.1736979	0.03705004	4.16E-06
T	C	0.03	0.3846592	0.08327188	5.67E-06
C	A	0.29	-0.1330204	0.02791577	2.93E-06
G	A	0.08	0.2091152	0.04624364	8.72E-06
C	A	0.08	0.2091152	0.04624364	8.72E-06
G	A	0.08	0.2091152	0.04624364	8.72E-06
C	T	0.09	0.2114118	0.04579258	5.73E-06
T	C	0.28	-0.1367588	0.02983861	6.65E-06
C	T	0.01	0.5842899	0.1240545	3.77E-06
T	C	0.01	0.5842899	0.1240545	3.77E-06
G	A	0.01	0.5842899	0.1240545	3.77E-06
A	C	0.42	0.1167228	0.02578649	8.55E-06
A	C	0.02	0.4651974	0.1023776	7.92E-06
AACACAC	A	0.03	0.3514832	0.07444311	3.58E-06
G	A	0.01	-1.241646	0.2718536	7.47E-06
C	G	0.39	-0.262201	0.0552821	3.42E-06

T	C	0.39	-0.2513278	0.05547927	8.79E-06
C	A	0.38	-0.2536177	0.05543335	7.22E-06
C	T	0.39	-0.2513278	0.05547927	8.79E-06
A	G	0.39	-0.2565202	0.05536013	5.57E-06
C	G	0.39	-0.2513278	0.05547927	8.79E-06
C	A	0.39	-0.2565202	0.05536013	5.57E-06
A	ACAAAAAG	0.01	-1.30207	0.2601253	1.02E-06
GCA	G	0.15	-0.3717726	0.08170254	8.05E-06
GTCACCTTA	G	0.27	-0.2861403	0.06289071	8.06E-06
G	A	0.23	-0.3092804	0.06400447	2.28E-06
A	AGTTAGTTAGTTT	0.02	-0.8766317	0.1816862	2.36E-06
G	A	0.4	0.2720647	0.05572178	1.81E-06
C	T	0.39	0.2675863	0.0582389	6.62E-06
G	A	0.39	0.2648848	0.05831367	8.33E-06
G	A	0.03	0.804106	0.1735125	5.56E-06
T	C	0.03	0.804106	0.1735125	5.56E-06
T	C	0.37	0.2777876	0.05868052	3.56E-06
G	A	0.01	-1.201911	0.2575577	4.82E-06
C	A	0.01	-1.194512	0.2556707	4.70E-06
TAGAG	T	0.02	-0.885361	0.1789813	1.35E-06
G	A	0.14	-0.3653465	0.08061521	8.72E-06
C	G	0.14	-0.3721354	0.07871167	3.66E-06
C	T	0.14	-0.3803934	0.07910279	2.54E-06
G	A	0.14	-0.3862032	0.07927995	1.91E-06
G	A	0.15	-0.3655166	0.07799188	4.40E-06
C	CAT	0.11	-0.3901388	0.08536466	7.37E-06
T	TCATCCATCCATC	0.12	0.3623571	0.07886678	6.63E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
C	T	0.01	-1.223529	0.2677413	7.39E-06
GT	G	0.01	-1.223529	0.2677413	7.39E-06
C	CAATATAATCT	0.01	-1.223529	0.2677413	7.39E-06
G	GC	0.01	-1.223529	0.2677413	7.39E-06
T	C	0.01	-1.223529	0.2677413	7.39E-06
C	G	0.01	-1.223529	0.2677413	7.39E-06
A	G	0.01	-1.223529	0.2677413	7.39E-06
A	C	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
TC	T	0.01	-1.223529	0.2677413	7.39E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
A	G	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
CT	C	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
CAT	C	0.01	-1.223529	0.2677413	7.39E-06
C	G	0.01	-1.208288	0.2586754	4.72E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06

T	C	0.01	-1.223529	0.2677413	7.39E-06
C	T	0.01	-1.223529	0.2677413	7.39E-06
G	C	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
C	T	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
T	A	0.01	-1.223529	0.2677413	7.39E-06
C	A	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
ACTGGAGATG	A	0.01	-1.223529	0.2677413	7.39E-06
C	T	0.01	-1.223529	0.2677413	7.39E-06
G	A	0.01	-1.223529	0.2677413	7.39E-06
C	T	0.01	-1.223529	0.2677413	7.39E-06
A	G	0.01	-1.223529	0.2677413	7.39E-06
A	G	0.27	0.2994374	0.06500144	6.28E-06
G	T	0.26	0.2987655	0.06565622	8.04E-06
A	G	0.25	0.3108878	0.06633607	4.41E-06
C	T	0.27	0.3035772	0.06494107	4.65E-06
A	T	0.27	0.2994374	0.06500144	6.28E-06
T	C	0.27	0.2994374	0.06500144	6.28E-06
G	A	0.25	0.3100209	0.06565309	3.76E-06
C	CCTT	0.26	0.312267	0.06517724	2.75E-06
T	G	0.26	0.312267	0.06517724	2.75E-06
G	A	0.25	0.3228509	0.06600181	1.74E-06
A	G	0.26	0.3201313	0.06509214	1.54E-06
C	T	0.23	0.3114681	0.06823325	7.55E-06
C	A	0.01	-1.286414	0.2615984	1.54E-06
C	T	0.26	-0.3056578	0.06278491	1.93E-06
G	C	0.36	-0.2540826	0.0562444	9.28E-06
T	C	0.19	0.3509573	0.07381806	3.25E-06
T	C	0.07	-0.510621	0.1112556	6.77E-06
C	A	0.41	0.2519513	0.05437353	5.57E-06
C	G	0.41	0.2465362	0.05443259	8.82E-06
G	A	0.41	0.2465916	0.05464767	9.49E-06
G	GT	0.41	0.250886	0.05463907	6.71E-06
A	G	0.41	0.2505736	0.0545722	6.71E-06
C	T	0.41	0.2514159	0.05438674	5.85E-06
AT	A	0.41	0.2565639	0.05467051	4.28E-06
G	C	0.41	0.2478991	0.05475186	8.88E-06
G	A	0.41	0.2499129	0.0546806	7.37E-06
CATA	C	0.41	0.250886	0.05463907	6.71E-06
A	G	0.17	0.3803951	0.07581776	9.68E-07
G	GACACAC	0.06	0.5556393	0.1188465	4.63E-06
A	G	0.25	-0.2984605	0.06410277	5.05E-06
T	A	0.04	-0.6378369	0.1388549	6.66E-06
A	G	0.01	-1.202818	0.2522618	3.05E-06
T	C	0.02	-1.030145	0.2212856	5.06E-06
G	A	0.13	-0.3839262	0.08264911	5.30E-06
A	G	0.13	-0.3945578	0.08239381	2.78E-06

A	C	0.13	-0.3945578	0.08239381	2.78E-06
G	C	0.14	-0.3706656	0.07980827	5.31E-06
G	C	0.14	-0.3799948	0.07986296	3.19E-06
C	T	0.14	-0.3706656	0.07980827	5.31E-06
A	T	0.14	-0.3751381	0.07963147	3.95E-06
A	C	0.14	-0.3733341	0.07975862	4.52E-06
T	A	0.14	-0.3751381	0.07963147	3.95E-06
C	A	0.14	-0.3751381	0.07963147	3.95E-06
T	G	0.03	-0.8140319	0.1784422	7.65E-06
C	T	0.05	-0.5999723	0.1293563	5.47E-06
A	G	0.41	-0.2604931	0.05741914	8.54E-06
T	C	0.46	0.256112	0.05488719	4.83E-06
C	T	0.42	0.2533669	0.05586161	8.58E-06
C	T	0.42	0.2540463	0.05585872	8.13E-06
G	C	0.33	0.2740675	0.05936154	6.00E-06
GA	G	0.29	0.2902806	0.06065274	2.82E-06
T	TTTGTGTGTGTGTG	0.02	-0.9614749	0.2113788	8.11E-06
G	C	0.02	-0.9773514	0.2015991	2.12E-06
C	T	0.01	-1.07871	0.237203	8.14E-06
TTTC	T	0.02	-1.041577	0.2146876	2.09E-06
C	T	0.02	-0.9511425	0.1963419	2.16E-06
.TCAGCTTTTCTCCCAA	C	0.37	0.2685849	0.05866984	7.13E-06
A	G	0.02	-1.041314	0.1911778	1.21E-07
T	G	0.02	-0.9148924	0.1974446	5.57E-06
T	A	0.02	-0.8957015	0.19368	5.80E-06
G	A	0.02	-0.9148924	0.1974446	5.57E-06
G	A	0.02	-0.9148924	0.1974446	5.57E-06
G	A	0.26	0.2940157	0.06346214	5.59E-06
T	C	0.01	-1.276241	0.2668805	2.87E-06
C	A	0.02	-0.9530265	0.2060732	5.80E-06
T	G	0.39	0.2484298	0.05392083	6.26E-06
A	G	0.39	0.2525881	0.0541156	4.80E-06
C	T	0.02	-0.9299477	0.1990561	4.71E-06
T	TAC	0.01	-1.477818	0.2698096	1.04E-07
CCA	C	0.18	-0.3428691	0.07618497	1.00E-05
G	A	0.21	-0.3102315	0.06889078	9.88E-06
AAT	A	0.27	-0.2805443	0.05934524	3.67E-06
C	T	0.02	-1.027414	0.2152225	2.98E-06
C	A	0.02	-1.027414	0.2152225	2.98E-06
G	A	0.26	-0.1360993	0.02856585	2.94E-06
A	C	0.21	0.1420593	0.03081863	5.92E-06
A	G	0.04	-0.2947567	0.06539372	9.29E-06
C	A	0.32	-0.1144685	0.02522438	8.13E-06
C	T	0.1	-0.1926167	0.04059861	3.22E-06
G	GCTC	0.08	-0.2285091	0.04722872	2.09E-06
G	GCGCACACA	0.08	-0.2126637	0.04708001	8.91E-06
G	A	0.1	0.1974259	0.04171599	3.40E-06
G	A	0.09	0.1950642	0.04184723	4.69E-06
A	G	0.03	-0.3758003	0.07817668	2.42E-06
G	A	0.06	-0.2387301	0.04985118	2.63E-06

C	CA	0.27	0.121761	0.02704699	9.52E-06
C	CT	0.01	-0.6795112	0.103201	2.39E-10
T	C	0.1	-0.1951199	0.04333266	9.48E-06
C	T	0.03	-0.3275875	0.06955664	3.77E-06
C	T	0.03	-0.3327714	0.07076006	3.89E-06
A	G	0.03	-0.3158697	0.06895253	6.72E-06
AT	A	0.03	-0.350284	0.07420825	3.60E-06
T	C	0.03	-0.350284	0.07420825	3.60E-06
G	T	0.03	-0.3677539	0.07499307	1.55E-06
G	T	0.03	-0.3672649	0.07122431	4.65E-07
C	A	0.03	-0.350284	0.07420825	3.60E-06
A	G	0.03	-0.350284	0.07420825	3.60E-06
T	C	0.03	-0.350284	0.07420825	3.60E-06
G	A	0.03	-0.36083	0.07600011	3.17E-06
A	T	0.03	-0.3350255	0.07341907	7.27E-06
T	C	0.03	-0.3350255	0.07341907	7.27E-06
A	G	0.03	-0.3350255	0.07341907	7.27E-06
C	T	0.04	-0.2850939	0.06289585	8.31E-06
CATAG	C	0.35	-0.1139529	0.02537057	9.96E-06
C	CTGTT	0.33	-0.123622	0.02648419	4.56E-06
A	C	0.33	-0.1241325	0.02643805	4.03E-06
T	C	0.09	-0.1953857	0.04347383	9.84E-06
G	A	0.09	-0.1989247	0.0437814	7.93E-06
G	C	0.09	-0.1989247	0.0437814	7.93E-06
T	A	0.02	-0.4571789	0.09832057	4.94E-06
T	A	0.02	-0.4571789	0.09832057	4.94E-06
T	A	0.02	-0.4571789	0.09832057	4.94E-06
A	C	0.02	-0.4571789	0.09832057	4.94E-06
C	T	0.01	-0.476312	0.1057268	9.39E-06
G	A	0.02	-0.5005503	0.097354	4.99E-07
C	T	0.02	-0.4888591	0.09944395	1.46E-06
A	G	0.19	-0.1434108	0.03172913	8.80E-06
G	A	0.19	-0.1466977	0.03168988	5.42E-06
G	A	0.19	-0.1466977	0.03168988	5.42E-06
A	G	0.02	-0.371732	0.0821699	8.64E-06
T	A	0.02	-0.371732	0.0821699	8.64E-06
C	T	0.07	-0.2463601	0.04660291	2.46E-07
CT	C	0.26	0.1326771	0.02816261	3.75E-06
C	T	0.02	-0.4005874	0.08416606	3.01E-06
CTTAT	C	0.02	-0.4005874	0.08416606	3.01E-06
CTAAA	C	0.11	-0.1814567	0.03962539	6.77E-06
TGATGAGACTGCA	T	0.08	-0.2068752	0.04502262	6.32E-06
T	G	0.1	-0.1943204	0.04081838	2.99E-06
G	A	0.1	-0.1943204	0.04081838	2.99E-06
GAC	G	0.1	-0.1960877	0.04200046	4.54E-06
A	G	0.09	-0.1860502	0.04117578	8.86E-06
C	T	0.12	-0.178861	0.03874062	5.73E-06
A	C	0.02	-0.4682237	0.1005268	4.77E-06
C	T	0.02	-0.4826616	0.09545509	7.52E-07
T	G	0.06	-0.2460526	0.05407059	7.69E-06

A	AGAAAT	0.37	-0.1206068	0.02635319	6.85E-06
G	A	0.03	-0.3647703	0.07309721	1.03E-06
A	G	0.29	-0.1244593	0.02767262	9.70E-06
C	T	0.37	0.1187307	0.02316357	5.39E-07
A	T	0.05	-0.2519587	0.05588927	9.26E-06
A	G	0.46	0.1264031	0.02536331	1.06E-06
G	C	0.02	-0.3703537	0.08228617	9.57E-06
C	G	0.02	-0.3903411	0.0816867	2.76E-06
A	C	0.03	-0.369609	0.07428009	1.10E-06
A	T	0.43	0.116135	0.02475534	4.10E-06
A	C	0.01	-0.526051	0.1134367	5.23E-06
T	TAC	0.01	-0.429715	0.09305976	5.71E-06
A	G	0.01	-0.4808578	0.1047861	6.49E-06
C	G	0.02	-0.3621473	0.08037527	9.36E-06
C	T	0.02	-0.3621473	0.08037527	9.36E-06
A	G	0.03	-0.2794233	0.06009555	4.95E-06
G	A	0.02	-0.3921792	0.08060101	1.85E-06
A	G	0.02	-0.4219724	0.08213992	5.10E-07
A	G	0.05	-0.2376163	0.04743282	9.40E-07
G	A	0.05	-0.2376163	0.04743282	9.40E-07
T	G	0.06	-0.2033469	0.04483586	8.22E-06
C	T	0.05	-0.2175638	0.04783251	7.76E-06
C	T	0.04	-0.2850449	0.05712676	1.03E-06
T	TACACAC	0.01	-0.5109032	0.1014256	8.24E-07
T	C	0.09	-0.1735384	0.03800912	7.19E-06
TATTA	T	0.05	-0.2214911	0.0490502	8.97E-06
CATTTTAAAT	C	0.04	-0.2499694	0.05552992	9.54E-06
C	CTT	0.01	-0.4644119	0.09255771	9.05E-07
AT	A	0.25	0.1214116	0.02477184	1.56E-06
T	C	0.02	-0.3474682	0.07692949	8.92E-06
C	T	0.02	-0.3527655	0.07709823	6.88E-06
C	T	0.01	-0.4980828	0.1070973	4.92E-06
T	C	0.01	-0.4980828	0.1070973	4.92E-06
A	C	0.01	-0.4343729	0.08860976	1.56E-06
A	G	0.02	-0.3289855	0.07170619	6.52E-06
G	T	0.02	-0.3440931	0.07278562	3.48E-06
C	T	0.01	-0.508324	0.1098292	5.44E-06
T	C	0.25	-0.1097468	0.02380941	5.92E-06
AG	A	0.25	-0.1083266	0.02347415	5.78E-06
G	A	0.25	-0.1097468	0.02380941	5.92E-06
C	T	0.25	-0.1097468	0.02380941	5.92E-06
C	A	0.25	-0.1067729	0.02336017	7.03E-06
T	C	0.25	-0.1084131	0.02382398	7.69E-06
C	T	0.25	-0.1084131	0.02382398	7.69E-06
T	C	0.25	-0.113382	0.02369803	2.68E-06
G	A	0.25	-0.1072679	0.02342326	6.76E-06
C	A	0.25	-0.1069422	0.02374296	9.43E-06
C	T	0.25	-0.1084131	0.02382398	7.69E-06
G	A	0.25	-0.1048475	0.02332111	9.78E-06
C	T	0.25	-0.1084131	0.02382398	7.69E-06

T	C	0.25	-0.1084131	0.02382398	7.69E-06
G	C	0.25	-0.1084131	0.02382398	7.69E-06
G	A	0.25	-0.1095993	0.0237531	5.80E-06
A	C	0.23	-0.1105272	0.02453882	9.43E-06
ATAATACTACTACTAC	A	0.08	-0.1772648	0.03587113	1.29E-06
C	T	0.05	-0.2366675	0.05072509	4.60E-06
G	GGTGT	0.04	-0.2708929	0.05801048	4.52E-06
A	C	0.01	-0.5317345	0.1104899	2.36E-06
A	G	0.01	-0.5317345	0.1104899	2.36E-06
C	T	0.39	-0.1066337	0.02218487	2.43E-06
G	GCA	0.01	-0.4887868	0.09850806	1.18E-06
G	A	0.01	-0.4331976	0.09414858	6.14E-06
G	T	0.07	-0.2195785	0.04029596	1.09E-07
G	A	0.01	-0.4384745	0.0941883	4.82E-06
T	C	0.34	-0.1006373	0.02230313	9.10E-06
A	G	0.09	-0.1674469	0.03631159	5.87E-06
CTAAT	C	0.09	-0.1674469	0.03631159	5.87E-06
A	G	0.09	-0.1674469	0.03631159	5.87E-06
A	G	0.09	-0.1674469	0.03631159	5.87E-06
C	G	0.09	-0.1674469	0.03631159	5.87E-06
C	T	0.09	-0.1674469	0.03631159	5.87E-06
C	T	0.09	-0.1756636	0.03683751	2.89E-06
G	A	0.09	-0.1761737	0.03678595	2.63E-06
A	G	0.09	-0.1674469	0.03631159	5.87E-06
A	G	0.09	-0.1674469	0.03631159	5.87E-06
T	TA	0.09	-0.1674469	0.03631159	5.87E-06
G	A	0.09	-0.1692357	0.03699068	6.90E-06
T	G	0.09	-0.1674469	0.03631159	5.87E-06
C	T	0.09	-0.164429	0.03645329	9.16E-06
T	A	0.09	-0.1692364	0.03636622	4.86E-06
C	A	0.23	0.1185524	0.02610996	8.04E-06
G	T	0.01	-0.4524792	0.1004102	9.34E-06
G	A	0.28	-0.1065371	0.02366434	9.52E-06
A	T	0.05	-0.2019326	0.04473825	9.04E-06
C	T	0.05	-0.2115595	0.04554289	5.05E-06
G	A	0.05	-0.2114298	0.04663267	8.27E-06
C	T	0.05	-0.217001	0.04685713	5.38E-06
C	A	0.05	-0.2224396	0.04709876	3.56E-06
C	A	0.02	-0.4027315	0.07557227	1.99E-07
G	A	0.05	-0.2232618	0.04590583	1.86E-06
T	A	0.06	-0.224115	0.04177253	1.67E-07
C	A	0.06	-0.2290543	0.04191848	1.01E-07
C	A	0.06	-0.2290543	0.04191848	1.01E-07
G	A	0.07	-0.2079959	0.04081148	6.21E-07
T	C	0.07	-0.2072847	0.04105061	7.77E-07
A	G	0.3	-0.1118403	0.02440767	6.68E-06
T	C	0.3	-0.1102144	0.02445015	9.28E-06
G	T	0.02	-0.3457759	0.07588033	7.48E-06
C	T	0.22	-0.1191347	0.02565089	5.06E-06
ACT	A	0.22	-0.117621	0.02579205	7.36E-06

TC	T	0.22	-0.1185965	0.0258998	6.78E-06
A	T	0.06	-0.2212306	0.04809179	6.17E-06
C	CA	0.02	-0.3703748	0.07710937	2.46E-06
TC	T	0.07	-0.1974664	0.04121142	2.60E-06
C	G	0.02	-0.3926924	0.08489728	5.51E-06
ATGTG	A	0.01	-0.444959	0.0975873	7.39E-06
C	CTTTG	0.25	-0.1240816	0.02622502	3.42E-06
C	T	0.02	-0.3740387	0.08059401	5.14E-06
G	T	0.01	-0.5080986	0.1022398	1.13E-06
C	T	0.01	-0.4584827	0.09443533	1.94E-06
C	A	0.03	-0.3238436	0.07117101	7.70E-06
A	G	0.03	-0.3238436	0.07117101	7.70E-06
G	C	0.01	-0.4368966	0.09722138	9.86E-06
A	G	0.03	-0.322709	0.07113482	8.18E-06
A	G	0.02	-0.3741758	0.07573654	1.30E-06
A	G	0.02	-0.3741758	0.07573654	1.30E-06
A	G	0.02	-0.3741758	0.07573654	1.30E-06
C	T	0.06	-0.2046834	0.04492638	7.51E-06
TAGAAAGGCA	T	0.02	-0.395952	0.07983599	1.19E-06
A	T	0.02	-0.3907671	0.07980289	1.60E-06
T	C	0.01	-0.4755333	0.1049885	8.44E-06
T	C	0.25	-0.1139761	0.0247818	6.20E-06
G	T	0.25	-0.1141442	0.02457877	5.07E-06
C	T	0.25	-0.1120974	0.02487873	9.36E-06
ATG	A	0.05	-0.2273364	0.04990954	7.54E-06
T	A	0.04	-0.2719641	0.05540697	1.51E-06
A	C	0.02	-0.4107999	0.09081788	8.67E-06
A	ATAGCTAGC	0.02	-0.394311	0.08525687	5.53E-06
G	GA	0.04	-0.242238	0.05307312	7.24E-06
G	C	0.01	-0.4921937	0.1058444	4.94E-06
C	T	0.04	-0.2522927	0.05538149	7.52E-06
A	AGTGTGTGT	0.06	-0.2377848	0.04750414	9.58E-07
T	G	0.07	-0.1977415	0.0423781	4.59E-06
A	G	0.07	-0.2189451	0.04031801	1.20E-07
T	C	0.09	-0.1729501	0.03593037	2.35E-06
G	A	0.07	-0.2295807	0.04128926	6.22E-08
T	G	0.09	-0.1765282	0.03558322	1.18E-06
C	A	0.06	-0.2016055	0.04399201	6.67E-06
T	C	0.02	-0.438395	0.08523813	4.96E-07
G	C	0.02	-0.4324827	0.07787042	6.42E-08
AACACACACACAC	A	0.02	-0.4347716	0.08497089	5.63E-07
C	G	0.01	-0.4614117	0.09642848	2.68E-06
C	T	0.03	-0.3328395	0.06890571	2.17E-06
A	G	0.03	-0.2986809	0.06538095	7.11E-06
AT	A	0.06	-0.2179523	0.04694024	5.09E-06
C	CA	0.04	-0.2731143	0.05497426	1.14E-06
G	A	0.41	0.1171099	0.0220583	2.20E-07
G	A	0.42	0.1157387	0.02204742	2.95E-07
T	C	0.41	0.1043347	0.022115	3.64E-06
G	C	0.4	0.1108251	0.02198568	8.10E-07

T	C	0.41	0.1098425	0.02186797	8.82E-07
C	T	0.4	0.1003066	0.02217971	8.70E-06
A	G	0.4	0.1058153	0.02221677	2.96E-06
C	A	0.01	-0.5065351	0.1009564	9.06E-07
T	TTC	0.03	-0.2989002	0.06310852	3.35E-06
G	C	0.03	-0.2710691	0.05687376	2.92E-06
TTTG	T	0.02	-0.3668695	0.07479399	1.54E-06
TCA	T	0.01	-0.4275129	0.08922433	2.60E-06
T	C	0.02	-0.370818	0.07473261	1.18E-06
G	T	0.01	-0.4197586	0.09121475	6.12E-06
T	G	0.01	-0.5079081	0.1090181	4.75E-06
C	T	0.02	-0.3466	0.07469043	5.15E-06
G	GA	0.02	-0.3465747	0.07069355	1.56E-06
T	A	0.03	-0.3200095	0.06625438	2.18E-06
C	CCACACACACA	0.01	-0.4819197	0.1068209	9.13E-06
C	T	0.08	-0.1915256	0.03787423	7.50E-07
TA	T	0.06	-0.2225278	0.04696259	3.31E-06
ATGTGTG	A	0.09	0.189546	0.03967271	2.77E-06
C	CTTT	0.04	0.2638108	0.05580866	3.49E-06
GA	G	0.06	0.1911579	0.04029954	3.24E-06
T	C	0.31	0.1101833	0.02430694	8.31E-06
AC	A	0.01	0.4450311	0.09320579	2.81E-06
G	GGTGTGTGT	0.02	0.4028901	0.08787362	6.61E-06
G	GTTATGTTAT	0.01	0.5427262	0.1074393	7.70E-07
T	A	0.01	0.5005056	0.1010887	1.24E-06
C	A	0.02	0.4251687	0.08980323	3.37E-06
A	G	0.02	0.4251687	0.08980323	3.37E-06
C	CTCTT	0.06	0.2333782	0.04823437	2.09E-06
G	A	0.02	0.4145374	0.09199745	9.35E-06
CA	C	0.47	-0.1009912	0.02245088	9.67E-06
C	T	0.04	0.2494561	0.05380385	5.25E-06
GA	G	0.02	0.3870061	0.08330327	5.03E-06
T	G	0.02	0.3870061	0.08330327	5.03E-06
A	G	0.04	0.2925234	0.06056393	2.18E-06
TA	T	0.01	0.4999378	0.1107708	9.06E-06
C	T	0.02	0.3620355	0.0805561	9.85E-06
G	A	0.03	0.3293505	0.06654385	1.25E-06
C	G	0.03	0.3293505	0.06654385	1.25E-06
C	T	0.01	0.4810509	0.1047586	6.40E-06
T	C	0.05	0.2339856	0.05015242	4.61E-06
T	A	0.05	0.238897	0.05040283	3.29E-06
A	G	0.05	0.2338153	0.04712025	1.18E-06
GA	G	0.05	0.2403872	0.04913133	1.63E-06
A	ATC	0.04	0.2513838	0.05293496	3.16E-06
A	ATTCCTTG	0.05	0.2634721	0.04646946	3.54E-08
G	A	0.25	0.116832	0.02601409	9.98E-06
T	C	0.25	0.116832	0.02601409	9.98E-06
G	A	0.02	0.3739318	0.08164095	6.74E-06
T	G	0.02	0.3856862	0.07912358	1.77E-06
G	C	0.02	0.4073563	0.0803202	6.99E-07

G	A	0.02	0.3979008	0.08195117	1.94E-06
G	A	0.02	0.4041106	0.08481154	2.94E-06
T	C	0.02	0.3979008	0.08195117	1.94E-06
CTTAA	C	0.02	0.3917953	0.08687875	9.20E-06
C	T	0.2	0.13715	0.02844062	2.26E-06
A	G	0.25	0.1174082	0.02470328	3.10E-06
C	A	0.24	0.1268302	0.02537207	9.89E-07
C	T	0.24	0.1268302	0.02537207	9.89E-07
G	A	0.24	0.1248111	0.02528588	1.33E-06
C	T	0.24	0.128411	0.02545518	7.96E-07
T	C	0.24	0.122282	0.02530651	2.16E-06
G	C	0.26	0.1183506	0.02531425	4.41E-06
GA	G	0.03	0.2743489	0.05985709	6.65E-06
G	A	0.36	0.1059775	0.02248001	3.70E-06
T	C	0.36	0.1053137	0.0225006	4.31E-06
C	T	0.36	0.1048198	0.02243639	4.48E-06
T	C	0.35	0.108405	0.02248372	2.26E-06
A	G	0.39	-0.0988371	0.02141614	5.77E-06
G	GAA	0.01	0.5657245	0.1105261	5.58E-07
T	TATAGATAG	0.01	0.5128825	0.110644	5.27E-06
C	T	0.22	0.1207786	0.02671618	8.76E-06
G	A	0.21	0.1258354	0.02696893	4.60E-06
C	G	0.06	0.2365981	0.0472693	9.59E-07
T	C	0.06	0.2202175	0.04646848	3.30E-06
C	G	0.02	0.3895538	0.08503656	6.72E-06
T	G	0.02	0.3232254	0.07146961	8.70E-06
A	G	0.46	0.1072221	0.02287965	4.19E-06
T	C	0.45	0.109361	0.02280355	2.55E-06
A	G	0.08	0.1855485	0.04046096	6.58E-06
G	T	0.09	0.1897925	0.04007201	3.35E-06
G	A	0.01	0.545374	0.1107356	1.40E-06
C	G	0.29	0.1111576	0.02244019	1.22E-06
G	A	0.27	0.1091942	0.02393331	7.30E-06
A	ATGGC	0.33	-0.1230105	0.02394565	5.10E-07
A	C	0.32	0.1038776	0.02310235	9.75E-06
C	T	0.12	0.1760883	0.03541375	1.12E-06
C	T	0.11	0.1853566	0.03602406	4.90E-07
A	G	0.11	0.1821839	0.03599468	7.34E-07
G	A	0.16	0.1565309	0.03064925	5.90E-07
T	C	0.16	0.1550225	0.0306337	7.37E-07
C	G	0.16	0.1569279	0.03065141	5.55E-07
A	G	0.16	0.1550225	0.0306337	7.37E-07
A	G	0.11	0.1882712	0.03607492	3.43E-07
T	C	0.16	0.158843	0.0306363	4.05E-07
C	T	0.11	0.1853566	0.03602406	4.90E-07
A	AGT	0.15	0.1497646	0.03317319	9.01E-06
A	G	0.17	0.1399965	0.02907856	2.34E-06
T	A	0.03	0.2981142	0.06389233	4.60E-06
C	T	0.26	0.1195071	0.02634947	8.22E-06
G	A	0.07	0.1901349	0.0418813	8.06E-06

G	C	0.08	0.1851365	0.04016318	5.92E-06
A	AAACAAC	0.03	0.2726269	0.05951141	6.72E-06
C	CTG	0.06	0.233727	0.04973193	3.95E-06
C	A	0.01	0.4967518	0.1010378	1.46E-06
A	T	0.02	0.3416958	0.07305663	4.37E-06
T	C	0.02	0.3416958	0.07305663	4.37E-06
A	C	0.05	0.2583539	0.05011442	4.67E-07
T	C	0.03	0.3435418	0.06961933	1.34E-06
G	C	0.02	0.3579361	0.07455071	2.49E-06
A	G	0.01	0.4807714	0.1013861	3.26E-06
G	A	0.02	0.3544935	0.0755824	4.12E-06
G	A	0.06	0.2273296	0.04834423	3.90E-06
T	G	0.04	0.2742618	0.06021111	7.54E-06
A	ATATCTATCTATC	0.02	0.3587364	0.07788344	6.01E-06
C	G	0.01	0.4715828	0.1043219	8.78E-06
G	T	0.01	0.4715828	0.1043219	8.78E-06
T	G	0.01	0.4715828	0.1043219	8.78E-06
G	C	0.01	0.4655189	0.1020423	7.31E-06
C	T	0.01	0.4893128	0.108422	9.07E-06
C	T	0.03	0.2855795	0.06160566	5.27E-06
G	A	0.21	0.1530601	0.03265556	4.18E-06
C	T	0.21	0.1519848	0.0324771	4.32E-06
G	A	0.21	0.1506339	0.03262477	5.72E-06
C	T	0.4	-0.1131813	0.02481993	7.37E-06
T	G	0.37	-0.117246	0.02584455	8.18E-06
A	T	0.37	-0.1206015	0.02580735	4.45E-06
CAG	C	0.38	-0.1189168	0.02568198	5.39E-06
C	T	0.38	-0.1164547	0.02559391	7.70E-06
A	G	0.38	-0.1165496	0.02579175	8.84E-06
C	T	0.37	-0.1189785	0.02584454	6.08E-06
C	T	0.37	-0.1160591	0.02583892	9.96E-06
AACAC	A	0.09	0.2265924	0.04713934	2.42E-06
G	A	0.3	-0.1349812	0.02985074	8.72E-06
G	A	0.3	-0.1365359	0.02984379	6.90E-06
G	A	0.3	-0.1350717	0.02985135	8.61E-06
T	C	0.31	-0.1352269	0.02988386	8.60E-06
G	T	0.31	-0.1351742	0.02987254	8.60E-06
G	A	0.31	-0.1351742	0.02987254	8.60E-06
C	T	0.31	-0.1351742	0.02987254	8.60E-06
T	C	0.3	-0.1351604	0.02984172	8.45E-06
CT	C	0.04	-0.3212917	0.07014152	6.73E-06
A	C	0.25	-0.139997	0.03070119	7.38E-06
A	G	0.25	-0.1399696	0.03068144	7.31E-06
C	A	0.25	-0.1392597	0.03067237	8.05E-06
A	C	0.27	-0.1368799	0.0296046	5.56E-06
T	A	0.25	-0.1409753	0.03065482	6.21E-06
C	G	0.27	-0.1475177	0.03004185	1.50E-06
A	G	0.25	-0.1388494	0.03066802	8.51E-06
G	A	0.25	-0.1420395	0.03076887	5.74E-06
C	T	0.25	-0.1420395	0.03076887	5.74E-06

A	G	0.29	-0.1404553	0.02896312	1.99E-06
A	G	0.25	-0.1421429	0.03087176	6.06E-06
T	C	0.25	-0.1437988	0.03085777	4.72E-06
G	T	0.25	-0.1404824	0.0307868	7.28E-06
A	T	0.27	-0.1408496	0.03017808	4.57E-06
T	C	0.25	-0.1404824	0.0307868	7.28E-06
A	T	0.27	-0.1406833	0.03016331	4.64E-06
C	T	0.27	-0.1438736	0.03006692	2.68E-06
T	C	0.27	-0.1512808	0.02999696	8.01E-07
T	C	0.25	-0.144423	0.03076613	4.05E-06
G	A	0.27	-0.1476148	0.03002968	1.46E-06
G	A	0.27	-0.1516929	0.03008336	8.04E-07
T	C	0.25	-0.144423	0.03076613	4.05E-06
G	A	0.27	-0.1475853	0.03004022	1.48E-06
T	C	0.27	-0.1475853	0.03004022	1.48E-06
G	A	0.25	-0.1415984	0.03080112	6.25E-06
T	C	0.27	-0.145798	0.03004131	1.96E-06
A	ATT	0.24	0.135267	0.03005815	9.59E-06
C	CGTGTGT	0.08	-0.2340208	0.04888301	2.65E-06
G	GTT	0.03	0.3212662	0.0710179	8.65E-06
G	A	0.28	-0.1343224	0.0296453	8.38E-06
CCTTGT	C	0.24	0.151244	0.03114582	1.93E-06
C	A	0.24	0.1466691	0.03091244	3.22E-06
T	G	0.11	0.2187016	0.04380389	1.02E-06
A	G	0.36	-0.1270635	0.02729811	4.84E-06
CAA	C	0.03	0.3916439	0.08389541	4.55E-06
T	TCC	0.02	0.4176164	0.08645393	2.17E-06
G	T	0.03	0.3380247	0.07420589	7.53E-06
GTC	G	0.1	-0.2028988	0.04491422	8.89E-06
G	A	0.15	-0.1661527	0.03656389	7.91E-06
C	T	0.32	-0.1280199	0.02779732	6.03E-06
A	AT	0.25	-0.1558315	0.03052682	5.96E-07
G	T	0.36	0.1279985	0.02790033	6.52E-06
T	C	0.36	0.1257801	0.02793085	9.47E-06
G	T	0.02	-0.4480814	0.09544484	4.04E-06
C	T	0.02	-0.3674482	0.08085247	7.89E-06
A	AT	0.01	-0.504422	0.1064279	3.30E-06
A	T	0.04	-0.264702	0.05894082	9.99E-06
T	G	0.02	-0.4034797	0.08944156	9.15E-06
G	C	0.02	-0.4034797	0.08944156	9.15E-06
C	T	0.43	0.1134713	0.02503298	8.31E-06
T	A	0.43	0.1143659	0.02499391	6.88E-06
C	T	0.42	0.1146813	0.02491436	6.09E-06
C	T	0.43	0.1173645	0.02492154	3.78E-06
T	G	0.05	-0.2688529	0.05534069	1.91E-06
G	A	0.01	-0.5049794	0.1096275	6.00E-06
A	AAAC	0.24	-0.1340581	0.02713906	1.31E-06
T	C	0.36	-0.1167569	0.0254224	6.38E-06
T	C	0.38	-0.1104142	0.02352665	4.07E-06
G	T	0.01	-0.5055784	0.1107275	7.18E-06

A	G	0.01	-0.5203306	0.1074123	2.04E-06
G	T	0.01	-0.6006035	0.1164123	4.58E-07
A	G	0.01	-0.6006035	0.1164123	4.58E-07
G	A	0.01	-0.6006035	0.1164123	4.58E-07
C	T	0.4	-0.1135985	0.02416265	3.92E-06
A	G	0.4	-0.1187279	0.02405482	1.33E-06
A	G	0.02	-0.3674461	0.0810801	8.35E-06
A	G	0.02	-0.3674461	0.0810801	8.35E-06
C	G	0.02	-0.3674461	0.0810801	8.35E-06
G	A	0.02	-0.3674461	0.0810801	8.35E-06
TTTG	T	0.02	-0.3674461	0.0810801	8.35E-06
T	C	0.05	-0.2491462	0.05240338	3.08E-06
CTGTG	C	0.07	-0.2341075	0.0461806	7.07E-07
C	T	0.02	-0.4909528	0.09810704	9.64E-07
A	G	0.06	-0.2390544	0.05054607	3.45E-06
C	T	0.08	-0.2088185	0.04455703	4.19E-06
C	T	0.07	-0.2100459	0.04533952	5.34E-06
T	C	0.07	-0.2100459	0.04533952	5.34E-06
T	C	0.07	-0.2100459	0.04533952	5.34E-06
AATTG	A	0.07	-0.2100459	0.04533952	5.34E-06
A	G	0.07	-0.2316062	0.0464069	1.03E-06
A	G	0.07	-0.2100459	0.04533952	5.34E-06
A	G	0.07	-0.2100459	0.04533952	5.34E-06
C	T	0.07	-0.2100459	0.04533952	5.34E-06
T	C	0.07	-0.2363729	0.04656345	6.83E-07
C	T	0.07	-0.2100459	0.04533952	5.34E-06
C	A	0.07	-0.2100459	0.04533952	5.34E-06
AAAAAG	A	0.07	-0.2100459	0.04533952	5.34E-06
C	T	0.07	-0.2100459	0.04533952	5.34E-06
ATTAGTT	A	0.07	-0.2100459	0.04533952	5.34E-06
C	T	0.07	-0.2100459	0.04533952	5.34E-06
C	A	0.07	-0.2185345	0.0482089	8.30E-06
T	C	0.01	-0.595463	0.1172469	6.76E-07
T	C	0.4	0.1108041	0.02450794	8.75E-06
A	G	0.07	-0.2301855	0.04955102	5.04E-06
CT	C	0.02	-0.3629851	0.07717314	3.88E-06
C	T	0.01	-0.5722976	0.1183898	2.14E-06
T	C	0.01	-0.5867114	0.1161728	7.74E-07
T	C	0.02	-0.366222	0.0809904	8.73E-06
T	C	0.28	-0.1154798	0.02558163	9.02E-06
C	A	0.28	-0.1159783	0.02558632	8.31E-06
G	GA	0.28	-0.1159917	0.02573035	9.27E-06
G	A	0.27	-0.1196973	0.02570827	4.81E-06
C	T	0.27	-0.1202785	0.02588193	5.00E-06
A	G	0.27	-0.1163333	0.02565201	8.23E-06
C	T	0.41	-0.1144118	0.02513251	7.63E-06
C	G	0.43	-0.1171574	0.02515695	4.79E-06
G	A	0.02	-0.3777187	0.07642046	1.29E-06
C	T	0.02	-0.364621	0.0774669	3.82E-06
C	CA	0.05	-0.2767816	0.05617254	1.38E-06

C	G	0.07	-0.2247582	0.04754264	3.48E-06
A	G	0.06	-0.2325677	0.05091236	7.12E-06
T	C	0.43	-0.1281976	0.02388895	1.66E-07
TCAAAA	T	0.03	-0.332433	0.07059993	3.79E-06
A	ACG	0.09	-0.2086207	0.04504294	5.36E-06
A	ACATC	0.02	-0.4271254	0.0809998	2.63E-07
T	A	0.02	-0.3950016	0.08416225	4.06E-06
G	T	0.43	0.1105027	0.02454673	9.53E-06
G	T	0.03	-0.3105415	0.06820393	7.60E-06
G	A	0.03	0.2970146	0.06506852	7.22E-06
A	G	0.02	0.3876669	0.08178165	3.29E-06
T	C	0.02	0.4505852	0.08289178	1.17E-07
T	C	0.11	0.1681829	0.03545792	3.24E-06
T	G	0.11	0.1798708	0.03593367	9.57E-07
A	G	0.11	0.1717732	0.03560355	2.23E-06
A	G	0.11	0.1577453	0.03482904	8.45E-06
G	T	0.11	0.1652176	0.0352488	4.18E-06
G	A	0.11	0.1798708	0.03593367	9.57E-07
T	C	0.11	0.1663593	0.03524637	3.60E-06
A	T	0.11	0.1798708	0.03593367	9.57E-07
A	G	0.11	0.1798708	0.03593367	9.57E-07
C	T	0.08	0.2068643	0.04110152	8.41E-07
G	A	0.11	0.164611	0.03520554	4.40E-06
G	C	0.11	0.1798708	0.03593367	9.57E-07
C	A	0.11	0.1798708	0.03593367	9.57E-07
G	A	0.11	0.1752253	0.03564823	1.46E-06
A	T	0.11	0.170329	0.03536671	2.32E-06
G	A	0.11	0.1705638	0.03553387	2.50E-06
T	C	0.11	0.1705638	0.03553387	2.50E-06
C	T	0.11	0.1798708	0.03593367	9.57E-07
T	C	0.11	0.1798708	0.03593367	9.57E-07
C	T	0.11	0.1595675	0.03486949	6.87E-06
T	G	0.11	0.1798708	0.03593367	9.57E-07
A	T	0.11	0.1773034	0.03587211	1.29E-06
A	G	0.11	0.1650132	0.03519982	4.17E-06
T	C	0.11	0.1739776	0.03558757	1.66E-06
C	T	0.11	0.1650132	0.03519982	4.17E-06
T	C	0.11	0.1739776	0.03558757	1.66E-06
T	C	0.08	0.1923649	0.04037091	2.94E-06
A	T	0.11	0.1612998	0.0349537	5.79E-06
T	A	0.11	0.1650132	0.03519982	4.17E-06
T	G	0.11	0.1610467	0.03454807	4.69E-06
T	A	0.11	0.1560542	0.03469503	9.69E-06
A	G	0.11	0.1650132	0.03519982	4.17E-06
CA	C	0.12	0.1585858	0.03336189	3.09E-06
A	C	0.11	0.1577445	0.03475262	8.09E-06
G	C	0.11	0.1787924	0.03492131	5.55E-07
G	A	0.11	0.1650132	0.03519982	4.17E-06
G	A	0.11	0.1739776	0.03558757	1.66E-06
G	A	0.11	0.1739776	0.03558757	1.66E-06

A	T	0.11	0.1666672	0.03521609	3.40E-06
A	G	0.11	0.170593	0.03550862	2.45E-06
C	G	0.12	0.1569883	0.03406383	5.94E-06
G	A	0.01	0.5135722	0.1135492	8.68E-06
C	A	0.01	0.5135722	0.1135492	8.68E-06
C	T	0.01	0.5135722	0.1135492	8.68E-06
G	T	0.01	0.5135722	0.1135492	8.68E-06
T	C	0.04	0.3014925	0.06345768	3.13E-06
A	G	0.01	0.509276	0.1101321	5.54E-06
A	G	0.01	0.509276	0.1101321	5.54E-06
G	A	0.01	0.509276	0.1101321	5.54E-06
C	A	0.01	0.509276	0.1101321	5.54E-06
T	A	0.01	0.509276	0.1101321	5.54E-06
TTC	T	0.01	0.478099	0.09722555	1.45E-06
A	T	0.01	0.5144247	0.09652127	1.99E-07
G	GTGTTGTTGTTGT	0.02	0.4614327	0.08816207	3.19E-07
A	ATG	0.02	0.4534968	0.09425107	2.37E-06
A	C	0.23	0.1296666	0.02743118	3.49E-06
T	C	0.23	0.1263438	0.02764881	7.07E-06
G	A	0.23	0.1246004	0.02756659	8.80E-06
C	T	0.25	0.1209098	0.02649705	7.27E-06
A	G	0.01	0.4689345	0.1039149	9.08E-06
T	C	0.06	0.2193384	0.04717343	4.95E-06
C	G	0.05	0.2671213	0.05570207	2.55E-06
G	A	0.02	0.4050031	0.0844263	2.53E-06
A	G	0.03	0.2851433	0.06289379	8.28E-06
T	C	0.01	0.4683514	0.09663636	2.02E-06
G	A	0.44	0.1180984	0.02317277	6.21E-07
A	T	0.43	0.1117914	0.02323282	2.37E-06
AG	A	0.33	0.1099542	0.0241072	7.34E-06
C	T	0.43	0.1177961	0.02321536	6.91E-07
T	C	0.33	0.1100516	0.02410606	7.20E-06
G	A	0.43	0.1140145	0.02325639	1.56E-06
T	A	0.44	0.1188099	0.02323414	5.72E-07
G	T	0.38	0.1196703	0.02386422	9.17E-07
T	C	0.29	0.1176704	0.02564653	6.51E-06
C	T	0.29	0.1176704	0.02564653	6.51E-06
GT	G	0.29	0.1212228	0.02567715	3.59E-06
C	T	0.29	0.1176704	0.02564653	6.51E-06
T	A	0.34	0.1115368	0.02439022	6.96E-06
T	C	0.29	0.1176704	0.02564653	6.51E-06
ATTGT	A	0.29	0.1210019	0.02570938	3.83E-06
G	GT	0.3	0.1162834	0.02516728	5.64E-06
C	A	0.3	0.1147316	0.02529596	8.21E-06
AG	A	0.31	0.1122817	0.02491525	9.33E-06
T	TA	0.3	0.1138838	0.02518723	8.74E-06
A	T	0.01	0.5116953	0.1008623	6.94E-07
A	G	0.01	0.5116953	0.1008623	6.94E-07
G	A	0.08	0.2020418	0.04450102	8.05E-06
G	A	0.08	0.2015136	0.0445322	8.60E-06

G	A	0.03	0.2986296	0.06409885	4.75E-06
A	AACAC	0.09	0.1750455	0.03887109	9.47E-06
T	C	0.03	0.3016312	0.06655514	8.34E-06
G	T	0.47	-0.1058596	0.02308035	6.56E-06
G	A	0.47	-0.1094913	0.02308824	3.25E-06
G	A	0.06	0.2315846	0.04970717	4.74E-06
TTAGA	T	0.19	0.1333055	0.02843115	4.15E-06
C	G	0.05	0.2346252	0.05116691	6.59E-06
G	A	0.01	0.5504117	0.1070146	4.95E-07
C	G	0.2	0.1249582	0.02742614	7.50E-06
T	G	0.2	0.123865	0.02736439	8.55E-06
T	G	0.2	0.124712	0.02747603	8.09E-06
T	G	0.2	0.124712	0.02747603	8.09E-06
C	T	0.21	0.1258826	0.02725077	5.66E-06
C	T	0.21	0.1234304	0.02729219	8.70E-06
C	T	0.21	0.1234304	0.02729219	8.70E-06
A	G	0.03	0.2917097	0.06464854	9.10E-06
C	T	0.03	0.3110751	0.06766616	6.25E-06
T	C	0.02	0.3755882	0.08314827	8.91E-06
A	T	0.01	0.5012626	0.110458	8.12E-06
C	T	0.01	0.5012626	0.110458	8.12E-06
T	G	0.09	0.1753781	0.03874553	8.55E-06
CATCT	C	0.03	0.3210487	0.0684127	4.07E-06
G	T	0.03	0.3325175	0.06966577	2.83E-06
T	C	0.03	0.3325175	0.06966577	2.83E-06
T	TACAC	0.03	0.3587588	0.07095571	7.53E-07
C	A	0.03	0.3325175	0.06966577	2.83E-06
G	A	0.03	0.3325175	0.06966577	2.83E-06
G	A	0.03	0.3325175	0.06966577	2.83E-06
G	T	0.03	0.3325175	0.06966577	2.83E-06
G	T	0.03	0.3325175	0.06966577	2.83E-06
G	C	0.03	0.3265596	0.066834	1.68E-06
G	A	0.03	0.3414722	0.06758868	7.67E-07
T	C	0.03	0.3265596	0.066834	1.68E-06
A	G	0.03	0.3325175	0.06966577	2.83E-06
T	A	0.03	0.3325175	0.06966577	2.83E-06
C	T	0.03	0.3325175	0.06966577	2.83E-06
G	A	0.03	0.3325175	0.06966577	2.83E-06
C	G	0.04	0.2957299	0.05927058	1.03E-06
A	C	0.04	0.2902185	0.05904442	1.47E-06
C	G	0.04	0.2957299	0.05927058	1.03E-06
T	A	0.01	0.5044779	0.1010175	1.01E-06
G	A	0.01	0.466026	0.0990257	3.84E-06
G	A	0.01	0.466026	0.0990257	3.84E-06
G	A	0.01	0.6430858	0.113542	3.65E-08
G	A	0.36	0.1181829	0.02389413	1.27E-06
A	G	0.28	-0.13035	0.02601348	9.34E-07
A	G	0.28	-0.128854	0.02605568	1.27E-06
G	C	0.28	-0.123089	0.02602239	3.44E-06
A	G	0.28	-0.1286131	0.02600418	1.27E-06

C	T	0.28	-0.1279252	0.02610239	1.57E-06
C	T	0.28	-0.1295037	0.02599871	1.07E-06
C	T	0.28	-0.131582	0.02600525	7.40E-07
T	C	0.4	-0.1070576	0.02376466	9.40E-06
C	T	0.24	-0.1230216	0.02700892	7.54E-06
G	C	0.28	-0.1307057	0.0259941	8.60E-07
G	A	0.28	-0.1303615	0.02591762	8.53E-07
A	G	0.28	-0.131582	0.02600525	7.40E-07
T	C	0.3	-0.1192296	0.02551666	4.46E-06
T	C	0.28	-0.1323343	0.025992	6.36E-07
G	A	0.28	-0.131582	0.02600525	7.40E-07
G	A	0.35	0.1090618	0.02391599	7.37E-06
G	C	0.38	0.113579	0.0235375	2.22E-06
C	T	0.02	0.4175544	0.0924553	8.94E-06
TTA	T	0.01	0.5437099	0.1143065	3.05E-06
C	T	0.01	0.5548338	0.1145969	2.06E-06
A	C	0.34	0.1096141	0.02355568	4.86E-06
C	T	0.36	0.1055924	0.02342975	9.32E-06
G	A	0.36	0.110696	0.02335532	3.29E-06
T	G	0.36	0.1061521	0.02334865	7.83E-06
A	G	0.02	0.3585758	0.07600431	3.64E-06
A	C	0.01	0.4692975	0.1032381	7.85E-06
A	ATCTGTCTG	0.01	0.4954829	0.1082912	6.89E-06
A	T	0.07	0.2043268	0.04381202	4.64E-06
C	T	0.13	0.158224	0.0346942	7.36E-06
A	G	0.07	0.1994973	0.04298341	5.14E-06
CACAT	C	0.03	0.2938999	0.06524617	9.42E-06
G	GACAC	0.07	0.2120533	0.04461935	3.11E-06
T	G	0.02	0.3587639	0.07509762	2.77E-06
T	A	0.02	0.4224558	0.08419347	9.04E-07
A	T	0.07	0.1969238	0.04353516	8.67E-06
G	A	0.07	0.2017831	0.04361361	5.48E-06
T	C	0.08	0.1982207	0.04265629	5.01E-06
C	T	0.08	0.2011587	0.04088925	1.44E-06
C	G	0.08	0.1989086	0.04117894	2.17E-06
G	A	0.08	0.1989086	0.04117894	2.17E-06
G	T	0.02	0.4277112	0.09295794	6.15E-06
C	T	0.02	0.4191954	0.08765378	2.71E-06
G	C	0.02	0.4191954	0.08765378	2.71E-06
G	GTGTA	0.18	0.1417434	0.0315416	9.86E-06
C	T	0.01	0.5206808	0.1092735	2.94E-06
ATG	A	0.12	0.1654054	0.03631166	7.53E-06
G	A	0.02	0.4180466	0.09071013	5.94E-06
T	C	0.01	0.4426431	0.09698032	7.24E-06
G	A	0.01	0.4919117	0.1092207	9.44E-06
A	G	0.01	0.4919117	0.1092207	9.44E-06
G	C	0.12	0.1687978	0.03484959	2.04E-06
C	T	0.05	0.2585662	0.05427258	2.95E-06
C	T	0.01	0.5219252	0.1022507	5.98E-07
GCTGAGGCAGGAGA	G	0.07	0.207847	0.0457417	7.92E-06

iCACACATGCACACGC	G	0.02	0.4090659	0.08742302	4.33E-06
A	G	0.02	0.3830429	0.08359046	6.68E-06
C	T	0.01	0.4723656	0.1016072	4.96E-06
C	T	0.03	0.3487651	0.06684261	3.45E-07
T	C	0.03	0.3487651	0.06684261	3.45E-07
C	A	0.04	0.2699843	0.05779339	4.48E-06
C	T	0.34	0.1065865	0.02362594	9.13E-06
G	A	0.33	0.1085358	0.02343531	5.37E-06
G	A	0.33	0.1092351	0.0235334	5.13E-06
C	T	0.35	0.1077802	0.02336887	5.85E-06
G	A	0.33	0.1090916	0.02366083	5.89E-06
T	G	0.35	0.1082393	0.02324622	4.80E-06
A	C	0.36	0.1070489	0.02335859	6.66E-06
G	C	0.36	0.1071467	0.02335167	6.50E-06
T	G	0.36	0.1065724	0.02336926	7.36E-06
GGA	G	0.32	0.1148437	0.02428789	3.47E-06
G	A	0.01	0.4591318	0.09987566	6.26E-06
T	A	0.01	0.4591318	0.09987566	6.26E-06
G	T	0.01	0.4591318	0.09987566	6.26E-06
CCT	C	0.34	-0.269029	0.0593138	8.46E-06
A	G	0.02	1.102816	0.2326973	3.42E-06
CA	C	0.06	0.5410415	0.1199232	9.40E-06
G	GA	0.05	0.5913317	0.1241924	3.09E-06
A	AT	0.15	-0.35171	0.07807426	9.68E-06
A	G	0.02	1.03242	0.2220825	5.13E-06
G	C	0.12	-0.403464	0.08836551	7.41E-06
C	A	0.08	0.5204542	0.1022977	6.79E-07
G	A	0.04	0.7939688	0.1490687	2.14E-07
T	C	0.04	0.7939688	0.1490687	2.14E-07
T	C	0.04	0.7939688	0.1490687	2.14E-07
T	G	0.04	0.7939688	0.1490687	2.14E-07
T	G	0.04	0.7939688	0.1490687	2.14E-07
C	A	0.04	0.7939688	0.1490687	2.14E-07
T	C	0.04	0.7939688	0.1490687	2.14E-07
T	C	0.04	0.7939688	0.1490687	2.14E-07
C	A	0.04	0.7939688	0.1490687	2.14E-07
C	T	0.04	0.7939688	0.1490687	2.14E-07
G	T	0.04	0.7939688	0.1490687	2.14E-07
G	A	0.04	0.7939688	0.1490687	2.14E-07
G	A	0.04	0.7939688	0.1490687	2.14E-07
G	C	0.04	0.7939688	0.1490687	2.14E-07
A	G	0.04	0.7939688	0.1490687	2.14E-07
G	GT	0.03	0.8835434	0.1589213	6.68E-08
T	A	0.05	0.564039	0.123922	7.89E-06
T	A	0.04	0.7939688	0.1490687	2.14E-07
G	A	0.04	0.7939688	0.1490687	2.14E-07
T	TA	0.04	0.7654708	0.1504068	6.74E-07
T	A	0.04	0.7939688	0.1490687	2.14E-07
G	A	0.04	0.7939688	0.1490687	2.14E-07
G	C	0.05	0.6255087	0.1344942	5.09E-06

C	T	0.04	0.626583	0.136339	6.50E-06
A	G	0.05	0.617095	0.1357116	8.05E-06
G	A	0.15	-0.3479154	0.07516579	5.62E-06
T	G	0.13	0.356471	0.07852374	8.31E-06
A	G	0.45	0.2377491	0.05242781	8.49E-06
T	C	0.27	-0.2863614	0.06150625	4.98E-06
C	T	0.27	-0.2863614	0.06150625	4.98E-06
G	A	0.02	1.023865	0.2219821	6.04E-06
A	G	0.37	-0.250555	0.05554946	9.44E-06
T	A	0.2	-0.3007623	0.06593632	7.56E-06
C	T	0.36	-0.2726225	0.05893427	5.69E-06
C	T	0.01	1.265973	0.2586001	1.67E-06
C	T	0.01	1.265973	0.2586001	1.67E-06
C	T	0.48	-0.2619787	0.05509313	3.18E-06
A	C	0.48	-0.2534322	0.05541197	7.16E-06
A	G	0.02	-0.8414687	0.1860093	8.91E-06
G	GAGTT	0.03	-0.80587	0.1771174	7.95E-06
C	T	0.03	-0.74967	0.1660991	9.32E-06
C	CT	0.03	-0.8013061	0.1729817	5.52E-06
AT	A	0.03	-0.74967	0.1660991	9.32E-06
G	A	0.03	-0.74967	0.1660991	9.32E-06
A	G	0.03	-0.7487429	0.1623512	6.05E-06
G	C	0.03	-0.8097266	0.1788101	8.73E-06
C	T	0.03	-0.7487429	0.1623512	6.05E-06
G	A	0.03	-0.74967	0.1660991	9.32E-06
C	T	0.03	-0.8097266	0.1788101	8.73E-06
A	G	0.03	-0.8097266	0.1788101	8.73E-06
T	A	0.03	-0.8097266	0.1788101	8.73E-06
G	T	0.03	-0.8097266	0.1788101	8.73E-06
T	A	0.03	-0.8097266	0.1788101	8.73E-06
TTTCA	T	0.05	0.5989153	0.1259273	3.17E-06
C	T	0.11	0.3946791	0.08721461	8.85E-06
T	A	0.22	0.3003351	0.06628431	8.63E-06
TATTA	T	0.04	0.7095718	0.1381591	5.40E-07
T	C	0.04	0.7095718	0.1381591	5.40E-07
A	G	0.04	0.7095718	0.1381591	5.40E-07
G	A	0.05	0.6504782	0.1314011	1.30E-06
G	A	0.02	1.033897	0.220667	4.36E-06
T	A	0.02	1.033897	0.220667	4.36E-06
G	A	0.07	0.5246838	0.1123871	4.70E-06
G	C	0.42	-0.2510029	0.05541628	8.70E-06
A	G	0.42	-0.25351	0.05553589	7.45E-06
A	ACATTTG	0.42	-0.2541463	0.05565102	7.38E-06
T	C	0.14	-0.3731444	0.08027697	5.15E-06
A	T	0.02	1.002162	0.2043802	1.61E-06
AC	A	0.02	1.002162	0.2043802	1.61E-06
T	C	0.02	1.002162	0.2043802	1.61E-06
T	A	0.08	-0.4549838	0.09914822	6.70E-06
G	A	0.09	0.4324472	0.09380556	6.10E-06
C	A	0.25	0.3062723	0.06625246	5.76E-06

A	G	0.26	0.3183167	0.06560993	2.05E-06
T	C	0.25	0.3192411	0.06567815	1.97E-06
T	C	0.24	0.3087007	0.06610729	4.68E-06
A	G	0.24	0.3099025	0.06608165	4.28E-06
G	T	0.04	-0.6229334	0.1306415	3.00E-06
A	G	0.04	-0.6354549	0.1351944	4.08E-06
C	T	0.04	0.6398268	0.1362389	4.15E-06
A	T	0.02	0.9118763	0.1908947	2.89E-06
C	T	0.02	0.8834822	0.1881694	4.17E-06
C	T	0.02	0.8908085	0.1844403	2.27E-06
C	T	0.1	0.4360321	0.09672385	9.55E-06
C	CATCT	0.06	0.5766711	0.1178714	1.70E-06
G	A	0.07	-0.4787609	0.1061443	9.44E-06
T	C	0.14	0.3833715	0.08053955	3.11E-06
A	AACACAC	0.04	0.6777043	0.144819	4.47E-06
C	A	0.29	-0.2827886	0.06245354	8.75E-06
C	T	0.29	-0.2829302	0.06247013	8.71E-06
C	G	0.29	-0.2851876	0.06192739	6.23E-06
C	T	0.28	-0.2960933	0.06279092	3.81E-06
C	T	0.28	-0.2975451	0.0603591	1.43E-06
C	A	0.29	-0.2851876	0.06192739	6.23E-06
G	A	0.29	-0.2869915	0.0621428	5.88E-06
G	A	0.29	-0.2851876	0.06192739	6.23E-06
G	A	0.33	-0.2726535	0.05977039	7.55E-06
T	C	0.3	-0.2903253	0.06215588	4.65E-06
A	G	0.33	-0.2729308	0.05981443	7.51E-06
A	C	0.3	-0.2903253	0.06215588	4.65E-06
A	T	0.33	-0.2729308	0.05981443	7.51E-06
A	G	0.3	-0.2903253	0.06215588	4.65E-06
A	T	0.3	-0.2903253	0.06215588	4.65E-06
A	G	0.34	-0.2802422	0.06015504	4.91E-06
C	T	0.3	-0.2825435	0.06203892	7.80E-06
A	T	0.3	-0.2799661	0.06193081	9.03E-06
C	A	0.3	-0.2799661	0.06193081	9.03E-06
A	C	0.3	-0.2799661	0.06193081	9.03E-06
A	T	0.14	0.390717	0.07869961	1.21E-06
G	A	0.1	0.4282178	0.09384061	7.50E-06
T	C	0.01	1.341303	0.2688792	1.09E-06
T	TAGATAGATAGAC	0.01	-1.117221	0.2279498	1.57E-06
A	AACACACAC	0.02	-0.7948986	0.1754217	8.40E-06
C	T	0.01	-1.043111	0.230719	8.78E-06
G	C	0.07	-0.4474922	0.09815982	7.44E-06
G	A	0.07	-0.4565374	0.09897325	5.86E-06
C	T	0.07	-0.4466058	0.09800076	7.50E-06
T	C	0.02	0.9435822	0.2066757	7.22E-06
A	G	0.33	0.2633279	0.0570495	5.78E-06
G	A	0.13	-0.3689809	0.07723527	2.79E-06
T	A	0.13	-0.3681398	0.0771691	2.87E-06
C	T	0.4	-0.2401503	0.05210905	5.97E-06
T	TAC	0.01	-1.183985	0.2400618	1.36E-06

T	C	0.01	-1.071145	0.2325133	6.02E-06
G	A	0.02	-0.8516057	0.1777578	2.62E-06
C	A	0.43	0.2535794	0.05283552	2.52E-06
G	A	0.44	0.2553437	0.05214484	1.61E-06
T	C	0.44	0.2440662	0.0526218	5.23E-06
G	A	0.44	0.2355195	0.05242724	9.97E-06
C	T	0.43	0.2535794	0.05283552	2.52E-06
T	C	0.43	0.2518396	0.05279908	2.88E-06
G	A	0.43	0.2545949	0.05284107	2.31E-06
T	C	0.43	0.2535794	0.05283552	2.52E-06
G	A	0.44	0.2419921	0.05264416	6.29E-06
C	T	0.42	0.2430839	0.05312551	6.91E-06
C	T	0.43	0.245128	0.05266054	4.85E-06
T	C	0.44	0.2409586	0.05243228	6.32E-06
G	A	0.05	-0.607638	0.1236156	1.47E-06
C	T	0.02	-0.8026489	0.1779917	9.25E-06
A	T	0.23	-0.2788847	0.05732058	1.86E-06
C	T	0.29	-0.291375	0.05865031	1.15E-06
G	GT	0.2	-0.2906006	0.06444871	9.26E-06
C	T	0.01	-1.124562	0.2372494	3.30E-06
C	CCTAT	0.1	-0.4171532	0.08985546	5.13E-06
T	C	0.15	-0.3319505	0.07183555	5.65E-06
C	T	0.11	-0.3840638	0.0817591	4.01E-06
TG	T	0.35	0.2549465	0.05547455	6.32E-06
C	T	0.23	-0.2819646	0.06215722	8.22E-06
T	C	0.04	-0.6109027	0.1305463	4.34E-06
G	GC	0.04	-0.6153476	0.1266216	1.91E-06
A	G	0.04	-0.5988964	0.1248601	2.55E-06
C	T	0.04	-0.6747468	0.1346818	9.43E-07
T	C	0.04	-0.5851561	0.12512	4.40E-06
T	C	0.04	-0.5665477	0.1247748	8.07E-06
T	C	0.04	-0.5665477	0.1247748	8.07E-06
G	A	0.04	-0.610099	0.1283865	3.13E-06
TA	T	0.03	-0.7560312	0.1506718	9.09E-07
C	G	0.04	-0.5948778	0.1276021	4.70E-06
G	C	0.04	-0.5842284	0.1255884	4.92E-06
C	T	0.04	-0.610099	0.1283865	3.13E-06
G	T	0.04	-0.5911898	0.127514	5.27E-06
T	C	0.04	-0.5840425	0.1237538	3.63E-06
A	G	0.04	-0.5673265	0.1261755	9.79E-06
T	TG	0.04	-0.5673265	0.1261755	9.79E-06
A	G	0.04	-0.5999634	0.1302507	6.03E-06
A	C	0.04	-0.610099	0.1283865	3.13E-06
G	A	0.04	-0.610099	0.1283865	3.13E-06
TTAA	T	0.03	0.7439532	0.162847	7.13E-06
G	GA	0.03	0.7366924	0.159742	5.88E-06
AT	A	0.04	0.6381524	0.1402083	7.69E-06
G	A	0.03	-0.7017037	0.1548265	8.37E-06
G	A	0.26	-0.2528243	0.05448441	5.18E-06
A	C	0.47	0.2342349	0.05195897	9.30E-06

C	T	0.3	-0.2629802	0.05799122	8.27E-06
C	T	0.01	-0.9891297	0.2187283	8.74E-06
C	T	0.01	-1.156338	0.2412655	2.60E-06
C	G	0.24	-0.2846963	0.0628331	8.41E-06
T	TC	0.33	0.254179	0.05595249	7.99E-06
C	T	0.03	-0.8625584	0.1545509	5.64E-08
C	A	0.03	-0.8269829	0.1620475	6.04E-07
C	T	0.04	-0.6676141	0.1429326	4.52E-06
GACACAC	G	0.27	0.2727226	0.05803665	3.98E-06
A	T	0.27	0.2954499	0.06371758	5.26E-06
TCATA	T	0.47	0.2362102	0.04793132	1.39E-06
C	T	0.01	-1.410001	0.250556	4.44E-08
C	T	0.01	-1.22541	0.2616049	4.25E-06
G	A	0.04	-0.3073785	0.06741065	7.38E-06
G	A	0.17	0.1656984	0.03410522	1.91E-06
C	A	0.17	0.1690115	0.0340501	1.17E-06
G	C	0.18	0.1602508	0.03334253	2.43E-06
C	T	0.17	0.1628819	0.0340623	2.72E-06
A	C	0.17	0.1664733	0.03397087	1.57E-06
C	A	0.16	0.1726671	0.03453042	9.81E-07
C	T	0.17	0.1687734	0.03399585	1.16E-06
A	G	0.17	0.1636686	0.03402263	2.38E-06
A	G	0.17	0.1622524	0.03396615	2.78E-06
T	A	0.17	0.165609	0.03397888	1.78E-06
C	T	0.17	0.165609	0.03397888	1.78E-06
C	T	0.17	0.165609	0.03397888	1.78E-06
G	A	0.17	0.165609	0.03397888	1.78E-06
A	G	0.17	0.1644386	0.03395866	2.06E-06
C	A	0.19	0.1543529	0.03333815	5.40E-06
C	T	0.19	0.1535073	0.03359455	7.07E-06
G	A	0.19	0.1531232	0.03342227	6.71E-06
G	A	0.19	0.1520884	0.03341068	7.64E-06
G	A	0.19	0.1520884	0.03341068	7.64E-06
A	T	0.19	0.1531232	0.03342227	6.71E-06
A	G	0.19	0.1531232	0.03342227	6.71E-06
C	G	0.19	0.1531232	0.03342227	6.71E-06
G	A	0.19	0.1531232	0.03342227	6.71E-06
A	G	0.19	0.1531232	0.03342227	6.71E-06
AC	A	0.19	0.1515648	0.03346239	8.44E-06
A	C	0.19	0.1531232	0.03342227	6.71E-06
C	A	0.19	0.1548694	0.03339241	5.22E-06
A	G	0.19	0.1520884	0.03341068	7.64E-06
G	T	0.19	0.1520884	0.03341068	7.64E-06
G	A	0.19	0.1531232	0.03342227	6.71E-06
C	T	0.19	0.1520884	0.03341068	7.64E-06
A	G	0.19	0.1520884	0.03341068	7.64E-06
G	C	0.19	0.1520884	0.03341068	7.64E-06
G	T	0.19	0.1510829	0.03346978	9.03E-06
G	A	0.19	0.1542645	0.03346159	5.90E-06
C	T	0.19	0.1496547	0.03291122	7.80E-06

T	C	0.02	-0.4978811	0.1050288	3.28E-06
CACTTTCAGCTTAG	C	0.37	-0.1224218	0.02640632	5.26E-06
A	G	0.37	-0.1189373	0.02626212	8.46E-06
T	C	0.03	-0.3510325	0.07205565	1.80E-06
G	A	0.38	-0.1198202	0.02628266	7.41E-06
CTA	C	0.38	-0.1246461	0.02631663	3.34E-06
C	T	0.38	-0.1266785	0.02638266	2.48E-06
C	A	0.37	-0.1258486	0.02638035	2.86E-06
CT	C	0.36	-0.1156286	0.02422251	2.82E-06
C	A	0.22	0.1405287	0.03101585	8.39E-06
G	A	0.04	-0.3020597	0.06217387	1.91E-06
G	T	0.04	-0.3089436	0.06504929	3.15E-06
G	A	0.04	-0.3089436	0.06504929	3.15E-06
T	C	0.04	-0.2959669	0.06586205	9.87E-06
G	A	0.04	-0.3089436	0.06504929	3.15E-06
T	C	0.04	-0.3089436	0.06504929	3.15E-06
T	A	0.04	-0.3261756	0.06855651	3.03E-06
C	T	0.04	-0.2959669	0.06586205	9.87E-06
C	T	0.04	-0.3089436	0.06504929	3.15E-06
G	T	0.04	-0.3089436	0.06504929	3.15E-06
G	C	0.04	-0.2959669	0.06586205	9.87E-06
T	C	0.04	-0.3089436	0.06504929	3.15E-06
C	G	0.04	-0.3089436	0.06504929	3.15E-06
T	C	0.04	-0.3089436	0.06504929	3.15E-06
C	T	0.04	-0.3089436	0.06504929	3.15E-06
G	A	0.04	-0.3089436	0.06504929	3.15E-06
GT	G	0.04	-0.3089436	0.06504929	3.15E-06
C	T	0.04	-0.3089436	0.06504929	3.15E-06
A	C	0.04	-0.3089436	0.06504929	3.15E-06
C	A	0.04	-0.3089436	0.06504929	3.15E-06
A	G	0.06	-0.2367998	0.05201102	7.61E-06
C	T	0.19	-0.153495	0.03360384	7.13E-06
G	C	0.43	-0.1187349	0.02609299	7.69E-06
A	G	0.43	-0.1235192	0.02612409	3.47E-06
T	C	0.43	-0.119811	0.02615205	6.71E-06
A	ACATTTG	0.42	-0.1196958	0.02617593	6.97E-06
A	T	0.43	-0.1188584	0.02610567	7.61E-06
G	A	0.42	-0.1195201	0.02581914	5.42E-06
A	ACTT	0.48	0.1203479	0.02658855	8.56E-06
C	A	0.48	0.1218933	0.02659199	6.64E-06
C	CGGTT	0.49	0.1219754	0.02652245	6.20E-06
G	T	0.48	0.11942	0.02658692	9.96E-06
GTA	G	0.47	0.1228781	0.02655677	5.48E-06
A	AC	0.48	0.1203479	0.02658855	8.56E-06
TG	T	0.47	0.1201829	0.02658776	8.79E-06
A	G	0.48	0.1204663	0.02656172	8.22E-06
C	T	0.48	0.12029	0.02635218	7.22E-06
AGAAG	A	0.48	-0.1394959	0.02620457	2.05E-07
T	C	0.17	-0.1523302	0.0337978	9.31E-06
A	T	0.17	-0.1555432	0.03403172	7.04E-06

C	T	0.46	0.1180729	0.02570516	6.36E-06
C	T	0.46	0.1170337	0.02552925	6.62E-06
C	A	0.18	-0.1523772	0.03375938	9.05E-06
GGT	G	0.26	-0.1421336	0.03106551	6.89E-06
A	G	0.37	-0.1244419	0.02678941	5.05E-06
G	A	0.03	-0.3350588	0.07382656	8.11E-06
A	G	0.07	-0.2371436	0.05087967	4.70E-06
TA	T	0.19	-0.1551982	0.03440648	9.16E-06
A	G	0.13	-0.1825096	0.03741278	1.74E-06
C	T	0.01	-0.556204	0.1216372	6.97E-06
A	G	0.33	0.1224119	0.02677424	6.99E-06
A	G	0.19	0.1498907	0.0323934	5.47E-06
A	G	0.33	0.1304275	0.02817814	5.43E-06
G	A	0.22	0.138483	0.02992094	5.44E-06
C	G	0.27	0.1491423	0.02848226	3.15E-07
C	G	0.22	0.1392206	0.02999745	5.14E-06
C	T	0.22	0.1395001	0.0300101	4.97E-06
G	GA	0.21	-0.1494968	0.03264671	6.77E-06
T	G	0.03	-0.338179	0.07236821	4.45E-06
C	G	0.03	-0.338179	0.07236821	4.45E-06
G	C	0.06	-0.2425697	0.05291011	6.61E-06
TA	T	0.03	-0.5952014	0.1324938	9.96E-06
G	C	0.46	0.2370397	0.04806297	1.36E-06
AAC	A	0.01	-0.9333574	0.2071938	9.43E-06
A	G	0.04	0.5865972	0.1217199	2.30E-06
A	G	0.04	0.5865972	0.1217199	2.30E-06
C	T	0.04	0.5865972	0.1217199	2.30E-06
C	G	0.35	0.2326021	0.05103102	7.46E-06
G	A	0.3	0.2406916	0.05323969	8.79E-06
A	T	0.02	-0.9317389	0.2038215	7.04E-06
G	A	0.06	-0.4936988	0.1061478	4.93E-06
C	CCGCCCA	0.06	-0.4727646	0.1050854	9.68E-06
T	C	0.35	0.2338201	0.05114371	7.02E-06
A	G	0.49	0.2217131	0.04807726	5.89E-06
AT	A	0.01	-0.975	0.215966	9.04E-06
G	GCACACACA	0.01	-1.015692	0.2177491	4.65E-06
C	G	0.04	-0.5786495	0.1245117	5.02E-06
G	A	0.21	0.2580844	0.05600108	5.97E-06
GT	G	0.39	-0.2333387	0.05039221	5.41E-06
T	C	0.28	0.2400946	0.05222441	6.27E-06
G	A	0.38	0.220715	0.04863586	8.15E-06
A	T	0.27	0.2353056	0.05218504	9.26E-06
C	T	0.28	0.237242	0.05193588	7.14E-06
AT	A	0.28	0.2368029	0.05178227	6.98E-06
G	T	0.28	0.240747	0.05182172	5.05E-06
T	C	0.29	0.2340971	0.0519851	9.50E-06
C	G	0.27	0.2438727	0.05235501	4.78E-06
G	A	0.28	0.2344786	0.05220228	9.99E-06
G	A	0.28	0.2381434	0.05246993	8.13E-06
C	G	0.28	0.2366063	0.05239485	8.99E-06

C	T	0.28	0.2374798	0.05241633	8.42E-06
A	T	0.02	-0.8364247	0.1848916	8.68E-06
G	C	0.01	-1.052996	0.2266656	5.06E-06
A	G	0.01	-1.062904	0.2227813	2.87E-06
G	A	0.08	-0.4080067	0.08857889	6.03E-06
C	T	0.08	-0.4312291	0.09028975	2.80E-06
G	T	0.44	0.2079074	0.04610694	9.25E-06
G	GA	0.01	-1.042653	0.225395	5.52E-06
A	C	0.26	0.254034	0.05603619	8.32E-06
C	A	0.26	0.2683267	0.05600853	2.62E-06
A	G	0.27	0.2524071	0.0553623	7.43E-06
A	G	0.32	0.2432114	0.05240058	5.15E-06
TACAC	T	0.19	-0.3075251	0.06555965	4.13E-06
C	T	0.2	0.2734254	0.06065599	9.31E-06
T	G	0.31	-0.2393187	0.05140435	4.83E-06
T	C	0.01	-0.5294103	0.08559364	2.27E-09
G	GGAGA	0.01	0.5493582	0.1134861	2.07E-06
T	TACACAC	0.01	0.4965626	0.1093287	7.99E-06
C	T	0.01	0.5119997	0.109651	4.53E-06
T	C	0.01	0.5119997	0.109651	4.53E-06
C	T	0.41	0.1048609	0.02302843	7.59E-06
GC	G	0.05	0.2460735	0.05293977	4.98E-06
A	G	0.1	0.1765542	0.03872775	7.41E-06
AT	A	0.1	0.1803218	0.0390496	5.71E-06
G	A	0.04	0.2759062	0.06026002	6.79E-06
G	A	0.3	-0.1161546	0.02564333	8.43E-06
C	A	0.31	-0.1148838	0.02545044	9.03E-06
CTCT	C	0.3	-0.1198619	0.02563154	4.39E-06
T	C	0.22	0.1263348	0.02733612	5.61E-06
T	G	0.22	0.1259472	0.02758842	7.21E-06
C	T	0.02	0.349884	0.07725903	8.47E-06
G	A	0.02	0.3841739	0.08236624	4.63E-06
T	A	0.02	0.4273588	0.09491853	9.50E-06
G	A	0.19	0.1305981	0.0289154	8.93E-06
G	A	0.19	0.1305981	0.0289154	8.93E-06
C	T	0.19	0.1367	0.02943235	5.06E-06
AT	A	0.19	0.1350548	0.02947464	6.69E-06
C	T	0.19	0.1419139	0.029607	2.58E-06
T	A	0.19	0.1419139	0.029607	2.58E-06
AT	A	0.21	0.1287822	0.02804563	6.40E-06
T	C	0.21	0.1304297	0.02802381	4.85E-06
T	C	0.45	0.1037694	0.0226225	6.54E-06
T	C	0.35	0.1070855	0.02279357	3.98E-06
G	C	0.45	0.1023275	0.02261295	8.60E-06
T	G	0.44	0.101701	0.02251322	8.90E-06
A	ACAT	0.44	0.102356	0.02263345	8.71E-06
C	A	0.45	0.1021924	0.02256067	8.43E-06
G	C	0.45	0.1037063	0.02256256	6.28E-06
ATG	A	0.21	-0.1354923	0.03011839	9.66E-06
T	A	0.04	0.2595493	0.05674698	6.94E-06

GCGCGCGCACACACA	G	0.01	0.4705587	0.1043131	9.15E-06
C	T	0.01	0.5380897	0.1033107	3.61E-07
G	T	0.01	0.5072987	0.1117578	8.08E-06
T	TCC	0.02	0.3776651	0.07594035	1.12E-06
A	T	0.01	0.5107603	0.1096786	4.79E-06
C	CACAGAGAG	0.03	0.3186402	0.06706064	3.12E-06
C	CT	0.47	0.1075614	0.02218232	1.99E-06
C	T	0.01	0.4926316	0.1084501	7.97E-06
C	T	0.01	0.5457662	0.1135918	2.45E-06
G	A	0.13	0.1569327	0.03432081	6.98E-06
C	G	0.02	0.4722055	0.09452147	1.00E-06
CTCACGCCTGTAATC	G	0.04	0.2527394	0.05592471	8.82E-06
T	A	0.02	0.4060778	0.08722166	4.81E-06
G	GGATCCGCCCTTGT	0.28	0.1209899	0.02679378	8.97E-06
C	T	0.02	0.3659433	0.07565487	2.11E-06
T	C	0.02	0.4408559	0.0928268	3.15E-06
T	C	0.02	0.4408559	0.0928268	3.15E-06
C	G	0.02	0.4408559	0.0928268	3.15E-06
C	A	0.02	0.4408559	0.0928268	3.15E-06
C	T	0.02	0.4408559	0.0928268	3.15E-06
T	C	0.02	0.4408559	0.0928268	3.15E-06
G	C	0.01	0.4572667	0.09692781	3.64E-06
C	T	0.02	0.4408559	0.0928268	3.15E-06
G	A	0.02	0.4269731	0.08916464	2.63E-06
C	G	0.02	0.4408559	0.0928268	3.15E-06
T	C	0.01	0.5004825	0.1098605	7.52E-06
A	G	0.32	-0.1125233	0.0244452	6.09E-06
CCT	C	0.32	-0.1135838	0.02463051	5.87E-06
T	C	0.32	-0.1153873	0.02464228	4.27E-06
G	C	0.32	-0.113783	0.02470295	6.01E-06
A	G	0.31	-0.1114158	0.02465299	8.82E-06
C	T	0.31	-0.1114158	0.02465299	8.82E-06
C	T	0.3	-0.1147957	0.02467798	4.90E-06
G	C	0.31	-0.1106052	0.02458924	9.68E-06
T	A	0.06	0.2298482	0.04811422	2.78E-06
G	T	0.02	0.4106515	0.09098849	9.06E-06
G	A	0.02	0.4106515	0.09098849	9.06E-06
T	G	0.02	0.4106515	0.09098849	9.06E-06
C	T	0.02	0.4106515	0.09098849	9.06E-06
T	A	0.02	0.4106515	0.09098849	9.06E-06
A	G	0.02	0.3959846	0.08572241	5.66E-06
GGTGT	G	0.03	0.3289909	0.06726155	1.64E-06
G	A	0.04	0.2435159	0.05417621	9.82E-06
G	A	0.02	0.4125321	0.08653456	2.90E-06
C	T	0.01	0.5018702	0.1100689	7.39E-06
T	C	0.04	0.2634091	0.05745861	6.62E-06
C	T	0.25	0.1468693	0.02959369	1.17E-06
C	T	0.25	0.1468693	0.02959369	1.17E-06
G	A	0.27	0.1462809	0.02884119	6.98E-07
A	C	0.14	-0.1693735	0.03764787	9.65E-06

C	T	0.02	-0.4769983	0.1036126	6.08E-06
C	CTGAA	0.02	-0.4446597	0.09589948	5.24E-06
C	G	0.19	-0.1642254	0.03372344	1.81E-06
G	T	0.2	-0.1610289	0.03307496	1.82E-06
C	T	0.2	-0.1633934	0.03308026	1.31E-06
G	C	0.2	-0.1712065	0.03318919	4.60E-07
C	T	0.19	-0.1546564	0.03342018	5.46E-06
A	C	0.22	-0.1542434	0.03155951	1.67E-06
A	C	0.22	-0.1476382	0.0315078	4.21E-06
C	T	0.22	-0.1552304	0.03141745	1.30E-06
G	T	0.2	-0.1509235	0.03307373	7.27E-06
T	C	0.22	-0.1464973	0.03112389	3.82E-06
T	G	0.22	-0.1445406	0.0314069	6.12E-06
A	G	0.22	-0.1525002	0.03105908	1.50E-06
A	G	0.22	-0.1548583	0.03176928	1.77E-06
T	C	0.23	-0.1468544	0.03108896	3.54E-06
T	G	0.21	-0.1481238	0.03198252	5.37E-06
C	T	0.2	-0.1602427	0.03246562	1.33E-06
T	C	0.12	-0.1889917	0.04056096	4.73E-06
C	T	0.07	0.2400175	0.05284607	7.99E-06
A	G	0.15	0.1719664	0.03738087	6.17E-06
C	T	0.29	0.1336885	0.02797194	2.75E-06
T	C	0.29	0.1397406	0.02816004	1.17E-06
T	C	0.31	0.1303474	0.0270959	2.38E-06
C	CT	0.1	-0.2001638	0.04312926	5.14E-06
G	C	0.1	-0.2001638	0.04312926	5.14E-06
G	A	0.1	-0.2001638	0.04312926	5.14E-06
C	A	0.1	-0.2084051	0.04362146	2.77E-06
A	G	0.1	-0.1955828	0.04304142	7.91E-06
G	A	0.1	-0.1955828	0.04304142	7.91E-06
G	A	0.1	-0.1955828	0.04304142	7.91E-06
TTA	T	0.1	-0.1955828	0.04304142	7.91E-06
T	G	0.1	-0.1955828	0.04304142	7.91E-06
G	A	0.1	-0.1955828	0.04304142	7.91E-06
C	T	0.1	-0.1955828	0.04304142	7.91E-06
TATTA	T	0.1	-0.1955828	0.04304142	7.91E-06
A	G	0.1	-0.1955828	0.04304142	7.91E-06
G	T	0.1	-0.1955828	0.04304142	7.91E-06
A	G	0.1	-0.1955828	0.04304142	7.91E-06
TTTTG	T	0.1	-0.1955828	0.04304142	7.91E-06
G	A	0.09	-0.2018709	0.04390596	6.24E-06
T	G	0.1	-0.1955828	0.04304142	7.91E-06
C	T	0.1	-0.1955828	0.04304142	7.91E-06
T	C	0.13	0.1751171	0.03838624	7.31E-06
A	G	0.13	0.1732671	0.03728863	5.01E-06
G	T	0.12	0.1927997	0.03992796	2.19E-06
A	G	0.12	0.1927997	0.03992796	2.19E-06
C	A	0.34	-0.1232108	0.02706008	7.60E-06
CTT	C	0.1	-0.2011522	0.04347244	5.47E-06
G	C	0.12	-0.1812296	0.04002772	8.51E-06

A	G	0.45	-0.1220041	0.02713626	9.77E-06
T	C	0.47	-0.1256707	0.02713888	5.39E-06
C	T	0.29	-0.1402143	0.03017996	5.03E-06
C	G	0.29	-0.1390085	0.02999136	5.28E-06
C	A	0.29	-0.1391751	0.03029041	6.32E-06
T	C	0.36	-0.141807	0.02859479	1.19E-06
T	C	0.28	-0.1332247	0.02874689	5.30E-06
G	A	0.45	-0.1220087	0.0265718	6.41E-06
A	C	0.39	-0.1198895	0.02641317	8.09E-06
CT	C	0.4	-0.1226593	0.02654057	5.61E-06
G	A	0.4	-0.1196667	0.02650237	8.98E-06
A	C	0.4	-0.121481	0.02656748	6.98E-06
TG	T	0.39	-0.1232048	0.02680051	6.26E-06
AT	A	0.39	-0.125014	0.02661279	3.99E-06
C	T	0.4	-0.121481	0.02656748	6.98E-06
CTCT	C	0.39	-0.1211897	0.02667484	7.94E-06
A	G	0.39	-0.1200222	0.02650205	8.46E-06
C	A	0.4	-0.1213563	0.0265614	7.09E-06
C	T	0.4	-0.1214175	0.0265619	7.02E-06
G	A	0.4	-0.1225995	0.02650418	5.51E-06
G	T	0.4	-0.121481	0.02656748	6.98E-06
T	C	0.4	-0.1196667	0.02650237	8.98E-06
G	T	0.4	-0.1196667	0.02650237	8.98E-06
G	C	0.4	-0.1196444	0.02652878	9.19E-06
A	C	0.4	-0.1194777	0.02657254	9.76E-06
T	C	0.4	-0.1208307	0.02646906	7.21E-06
A	T	0.37	-0.120994	0.02650641	7.22E-06
C	A	0.4	-0.1196231	0.02655361	9.40E-06
G	A	0.4	-0.1196231	0.02655361	9.40E-06
T	C	0.37	-0.1228897	0.02645043	5.03E-06
A	G	0.4	-0.1226795	0.02651169	5.47E-06
T	C	0.4	-0.1196231	0.02655361	9.40E-06
C	T	0.4	-0.1207877	0.02654835	7.72E-06
T	C	0.4	-0.121122	0.02645115	6.78E-06
C	T	0.4	-0.1207046	0.02651239	7.61E-06
T	G	0.4	-0.1195489	0.02655238	9.50E-06
C	A	0.4	-0.1205692	0.02652051	7.84E-06
C	T	0.02	-0.4511749	0.09844169	6.66E-06
G	A	0.02	-0.4511749	0.09844169	6.66E-06
C	A	0.12	0.1822871	0.03967875	6.34E-06
A	G	0.12	0.1822871	0.03967875	6.34E-06
T	C	0.08	-0.2120465	0.04565532	5.06E-06
G	A	0.02	0.4233887	0.09248136	6.81E-06
A	C	0.02	0.3803287	0.08361848	7.76E-06
A	AT	0.41	0.1143089	0.02480814	5.97E-06
C	T	0.02	0.4111412	0.08696434	3.48E-06
T	C	0.48	0.1162687	0.02472301	3.89E-06
G	T	0.02	-0.3924443	0.08735661	9.92E-06
C	T	0.02	-0.3924443	0.08735661	9.92E-06
G	A	0.02	-0.3924443	0.08735661	9.92E-06

A	C	0.02	-0.3924443	0.08735661	9.92E-06
G	A	0.01	0.5336207	0.1164112	6.63E-06
G	A	0.06	-0.2465328	0.05421784	7.81E-06
T	C	0.02	0.434899	0.09590083	8.24E-06
A	AT	0.31	-0.1325727	0.0273823	2.06E-06
G	A	0.02	0.4790541	0.1036556	5.61E-06
A	C	0.03	0.3292395	0.07074595	4.86E-06
T	G	0.03	0.3422415	0.07125785	2.47E-06
A	T	0.03	0.3292395	0.07074595	4.86E-06
C	G	0.03	0.3292395	0.07074595	4.86E-06
G	T	0.16	-0.157316	0.03434568	6.74E-06
C	T	0.16	-0.1555243	0.03440441	8.78E-06
G	A	0.23	0.1339529	0.02932622	7.13E-06
T	C	0.04	-0.3106756	0.06846343	8.13E-06
A	C	0.18	0.1450447	0.03214307	9.09E-06
AGTGT	A	0.28	0.1436477	0.03068102	4.28E-06
G	GAA	0.08	0.2179991	0.04825344	8.88E-06
T	G	0.41	-0.1187145	0.02493331	2.98E-06
C	A	0.41	-0.1143542	0.02496747	6.75E-06
A	G	0.33	-0.1228572	0.02605511	3.68E-06
A	T	0.33	-0.1249877	0.02610376	2.64E-06
T	TC	0.41	0.1184012	0.02597172	7.41E-06
T	C	0.4	0.1204736	0.02601201	5.37E-06
G	C	0.33	0.1266641	0.02718922	4.75E-06
A	G	0.19	-0.3093965	0.06581065	3.99E-06
C	CT	0.02	-0.8558142	0.184997	5.58E-06
A	G	0.24	0.3081323	0.06281192	1.56E-06
A	G	0.27	0.2824922	0.06129065	6.02E-06
A	G	0.27	0.2811668	0.06072021	5.47E-06
A	G	0.23	0.2854936	0.0628702	8.13E-06
G	A	0.23	0.2875965	0.06362301	8.91E-06
G	A	0.24	0.2816653	0.0622296	8.68E-06
T	C	0.24	0.2775072	0.06152775	9.31E-06
A	T	0.23	0.284012	0.06309695	9.68E-06
C	T	0.22	0.2892867	0.06432901	9.86E-06
G	A	0.02	-0.8189175	0.1812569	9.00E-06
A	G	0.03	-0.7555739	0.1669503	8.70E-06
C	CTTT	0.05	-0.549167	0.1200165	6.98E-06
G	A	0.18	-0.322502	0.07106617	8.24E-06
C	T	0.14	-0.3764036	0.08327905	8.93E-06
T	C	0.43	-0.2492796	0.05546241	9.97E-06
A	G	0.37	-0.2592301	0.05619678	5.92E-06
G	A	0.37	-0.2625363	0.05648978	5.07E-06
T	C	0.37	-0.2582819	0.05623157	6.46E-06
A	G	0.24	-0.2939488	0.06520599	9.40E-06
A	C	0.23	-0.3008604	0.06519157	5.86E-06
G	C	0.23	-0.2934976	0.0652782	9.90E-06
C	T	0.12	-0.3948822	0.08333337	3.37E-06
A	C	0.09	-0.4703912	0.1030388	7.31E-06
A	G	0.1	-0.4374106	0.09473518	5.81E-06

T	C	0.1	-0.4374106	0.09473518	5.81E-06
T	A	0.1	-0.4244089	0.09172236	5.56E-06
C	CA	0.1	-0.4145177	0.08897914	4.83E-06
A	T	0.1	-0.415465	0.09058143	6.65E-06
C	A	0.1	-0.4375155	0.09456311	5.57E-06
C	T	0.1	-0.4375155	0.09456311	5.57E-06
T	TA	0.13	-0.379623	0.08044426	3.68E-06
A	G	0.36	0.2529756	0.05591367	8.75E-06
GA	G	0.01	-1.187951	0.2482353	2.72E-06
TTTATATAAGTAG	T	0.03	-0.781798	0.171693	7.70E-06
C	T	0.02	-0.9849095	0.2120087	5.12E-06
A	G	0.12	-0.3797035	0.08193042	5.38E-06
C	T	0.05	-0.5701396	0.1246642	7.05E-06
G	A	0.1	-0.52746	0.09162257	2.33E-08
G	A	0.1	-0.5115116	0.09216564	6.77E-08
A	G	0.12	-0.3850743	0.07602456	7.37E-07
C	T	0.01	-1.22492	0.2704499	8.57E-06
C	A	0.24	0.3026675	0.06223184	1.90E-06
A	G	0.02	-0.9896205	0.2120891	4.67E-06
T	C	0.02	-0.9896205	0.2120891	4.67E-06
C	T	0.01	-1.024419	0.2209711	5.34E-06
T	C	0.1	-0.4085837	0.09044725	9.02E-06
G	A	0.16	0.1541994	0.03316596	4.95E-06
G	A	0.02	0.4879973	0.09834805	1.18E-06
G	T	0.02	0.4665814	0.1000542	4.65E-06
T	C	0.03	0.3748485	0.07650577	1.58E-06
C	CA	0.19	0.1473885	0.03281236	9.95E-06
T	G	0.29	0.1291667	0.02814007	6.45E-06
C	T	0.28	0.1277569	0.02840092	9.67E-06
C	A	0.28	0.1277569	0.02840092	9.67E-06
C	T	0.36	0.1222601	0.02662077	6.38E-06
C	A	0.34	0.1217661	0.02519899	2.16E-06
T	G	0.29	0.131217	0.02807619	4.44E-06
G	C	0.3	0.1271284	0.02781513	7.04E-06
C	G	0.43	0.1134253	0.02520319	9.58E-06
C	T	0.29	0.1300611	0.02791119	4.73E-06
G	A	0.29	0.1270719	0.02792391	7.69E-06
T	C	0.37	0.1207041	0.02609142	5.49E-06
C	G	0.37	0.1231829	0.02595838	3.21E-06
A	C	0.04	0.2911678	0.06394717	7.60E-06
G	T	0.43	0.108923	0.02423014	9.80E-06
A	G	0.02	0.3953783	0.08632299	6.74E-06
C	G	0.07	0.241256	0.04950112	1.78E-06
G	GACAC	0.06	0.2556507	0.05405034	3.44E-06
T	C	0.14	-0.1827113	0.03966884	6.02E-06
C	T	0.02	0.4576433	0.09515595	2.39E-06
C	T	0.02	0.4832861	0.1008563	2.60E-06
A	AT	0.31	-0.1239183	0.02707183	6.83E-06
A	T	0.05	0.2733899	0.05943279	6.18E-06
G	A	0.02	0.4259551	0.09166885	5.01E-06

G	A	0.03	0.3476019	0.07603554	7.01E-06
CT	C	0.03	0.2837375	0.05921747	2.60E-06
A	AT	0.11	-0.1896235	0.04101553	5.57E-06
G	A	0.02	0.5008454	0.1050073	2.87E-06
G	C	0.02	0.5008454	0.1050073	2.87E-06
G	A	0.04	0.3189623	0.06906844	5.70E-06
C	A	0.03	0.3306024	0.07246831	7.31E-06
CTCCTTCCTTCCT	C	0.48	0.1060324	0.02229645	3.06E-06
T	TG	0.14	0.1828449	0.03941785	5.20E-06
G	A	0.28	-0.1320617	0.02890401	7.09E-06
A	G	0.3	0.1266669	0.02638308	2.49E-06
C	T	0.34	0.1202594	0.02641287	7.60E-06
AT	A	0.03	0.3106336	0.0675637	6.24E-06
T	G	0.06	0.5277204	0.1125996	4.19E-06
C	T	0.01	1.259397	0.2627321	2.58E-06
T	A	0.01	1.259397	0.2627321	2.58E-06
C	T	0.01	1.259397	0.2627321	2.58E-06
G	A	0.01	1.259397	0.2627321	2.58E-06
C	T	0.01	1.259397	0.2627321	2.58E-06
C	T	0.01	1.259397	0.2627321	2.58E-06
CTAAAA	C	0.01	1.259397	0.2627321	2.58E-06
G	A	0.01	1.259397	0.2627321	2.58E-06
T	G	0.01	1.259397	0.2627321	2.58E-06
T	C	0.01	1.259397	0.2627321	2.58E-06
G	T	0.01	1.259397	0.2627321	2.58E-06
A	G	0.01	1.259397	0.2627321	2.58E-06
A	T	0.01	1.259397	0.2627321	2.58E-06
C	T	0.01	1.259397	0.2627321	2.58E-06
G	A	0.01	1.259397	0.2627321	2.58E-06
T	G	0.03	-0.6684239	0.1435456	4.80E-06
T	A	0.03	-0.673259	0.145	5.10E-06
G	A	0.09	0.4218608	0.091929	6.49E-06
G	A	0.09	0.4218608	0.091929	6.49E-06
T	TTCTCTCTCTCTCTC	0.02	0.9864604	0.2001699	1.38E-06
A	AG	0.1	0.4049065	0.08909902	7.90E-06
G	GTTT	0.02	0.9284136	0.2014917	5.97E-06
C	CA	0.08	-0.4287472	0.09508154	9.22E-06
A	G	0.38	0.253277	0.05633816	9.79E-06
G	A	0.37	0.2627288	0.05581855	3.83E-06
G	A	0.39	0.2551208	0.05609106	7.77E-06
A	C	0.39	0.2661756	0.0559851	3.08E-06
A	G	0.39	0.263481	0.05613708	4.06E-06
A	C	0.39	0.2551208	0.05609106	7.77E-06
A	G	0.39	0.2615302	0.05605484	4.61E-06
C	T	0.27	0.2821729	0.06164215	6.83E-06
C	A	0.39	0.264926	0.05609108	3.55E-06
C	T	0.39	0.2708855	0.05591433	2.04E-06
T	C	0.39	0.2708855	0.05591433	2.04E-06
A	G	0.39	0.2708855	0.05591433	2.04E-06
T	C	0.38	0.2557119	0.05557237	6.14E-06

A	G	0.39	0.2669902	0.05590016	2.79E-06
A	T	0.39	0.2669902	0.05590016	2.79E-06
G	C	0.39	0.2779772	0.05579043	1.07E-06
G	A	0.39	0.2733632	0.05593243	1.67E-06
G	T	0.39	0.2733632	0.05593243	1.67E-06
A	G	0.39	0.2779772	0.05579043	1.07E-06
G	A	0.39	0.2643237	0.05605333	3.68E-06
A	G	0.39	0.2779772	0.05579043	1.07E-06
G	C	0.38	0.2675928	0.05555636	2.32E-06
A	G	0.39	0.2708855	0.05591433	2.04E-06
T	C	0.39	0.2779772	0.05579043	1.07E-06
T	C	0.39	0.2665131	0.05581558	2.81E-06
A	G	0.39	0.2779772	0.05579043	1.07E-06
C	T	0.39	0.2779772	0.05579043	1.07E-06
C	T	0.39	0.2779772	0.05579043	1.07E-06
A	T	0.39	0.2669902	0.05590016	2.79E-06
C	T	0.39	0.2703551	0.0559355	2.15E-06
C	T	0.39	0.2699193	0.05600487	2.29E-06
A	G	0.38	0.2567456	0.05566627	5.85E-06
G	A	0.39	0.2779772	0.05579043	1.07E-06
G	A	0.39	0.2598752	0.0560239	5.20E-06
C	G	0.39	0.2779772	0.05579043	1.07E-06
C	T	0.39	0.267214	0.05583734	2.67E-06
A	G	0.38	0.2730997	0.05592596	1.70E-06
A	G	0.39	0.2789942	0.05574244	9.61E-07
C	A	0.03	0.7323867	0.160137	6.95E-06
C	A	0.08	0.5025938	0.09809831	5.46E-07
C	T	0.08	0.4650406	0.1006654	5.66E-06
T	A	0.02	1.033186	0.207234	1.05E-06
G	A	0.02	1.033186	0.207234	1.05E-06
C	T	0.29	-0.2547642	0.05562106	6.74E-06
C	CT	0.43	0.2102042	0.0466585	9.39E-06
G	T	0.01	1.029263	0.2259144	7.51E-06
C	T	0.01	0.9605226	0.211227	7.80E-06
A	G	0.18	0.3006126	0.06660341	9.06E-06
G	A	0.01	1.165961	0.2500017	4.64E-06
TGTGTGTGTGTGTGT	T	0.01	1.193452	0.2559649	4.67E-06
T	C	0.01	1.046718	0.2260711	5.40E-06
T	C	0.01	1.167005	0.2502379	4.65E-06
G	T	0.01	1.123421	0.2423076	5.25E-06
C	CT	0.03	0.668709	0.14778	8.61E-06
GGTGT	G	0.06	-0.5225862	0.1137092	6.30E-06
G	A	0.02	0.8707013	0.1851862	3.91E-06
G	C	0.02	0.8231365	0.182293	8.98E-06
GA	G	0.02	0.8231365	0.182293	8.98E-06
G	A	0.02	0.8231365	0.182293	8.98E-06
T	C	0.02	0.8231365	0.182293	8.98E-06
C	T	0.02	0.8231365	0.182293	8.98E-06
T	C	0.02	0.8231365	0.182293	8.98E-06
TCTAA	T	0.02	0.8231365	0.182293	8.98E-06

G	A	0.02	0.8231365	0.182293	8.98E-06
G	A	0.02	0.8231365	0.182293	8.98E-06
G	A	0.02	0.8231365	0.182293	8.98E-06
C	T	0.02	0.8231365	0.182293	8.98E-06
C	A	0.02	0.8231365	0.182293	8.98E-06
G	T	0.02	0.8649525	0.1904828	8.03E-06
G	T	0.02	0.8231365	0.182293	8.98E-06
G	GT	0.02	0.8231365	0.182293	8.98E-06
G	A	0.02	0.8231365	0.182293	8.98E-06
G	C	0.02	0.8231365	0.182293	8.98E-06
A	G	0.02	0.8231365	0.182293	8.98E-06
GAAAA	G	0.02	0.8231365	0.182293	8.98E-06
C	G	0.02	0.8231365	0.182293	8.98E-06
A	G	0.02	0.8231365	0.182293	8.98E-06
A	C	0.02	0.8231365	0.182293	8.98E-06
G	A	0.02	0.8231365	0.182293	8.98E-06
C	T	0.02	0.8231365	0.182293	8.98E-06
C	A	0.02	0.7650066	0.167499	7.15E-06
TTCTG	T	0.02	0.7650066	0.167499	7.15E-06
C	G	0.02	0.7650066	0.167499	7.15E-06
C	G	0.02	0.7591804	0.1672987	8.13E-06
A	G	0.02	0.7650066	0.167499	7.15E-06
G	A	0.02	0.7650066	0.167499	7.15E-06
A	G	0.02	0.7650066	0.167499	7.15E-06
T	C	0.02	0.7650066	0.167499	7.15E-06
C	T	0.02	0.7650066	0.167499	7.15E-06
ATATTT	A	0.02	0.7826955	0.172199	7.87E-06
T	G	0.02	0.7826955	0.172199	7.87E-06
C	A	0.01	1.162663	0.2418095	2.41E-06
A	AACAC	0.02	0.9621316	0.211971	8.10E-06
G	A	0.01	1.161586	0.224139	4.10E-07
A	G	0.02	0.8621855	0.1872214	6.04E-06
C	T	0.01	1.257473	0.2473602	6.61E-07
T	A	0.01	1.201719	0.2562014	4.12E-06
C	T	0.07	-0.4689851	0.101499	5.64E-06
T	C	0.07	-0.4858579	0.09953315	1.72E-06
T	A	0.02	0.7888463	0.1721514	6.69E-06
A	G	0.02	0.9580052	0.2018328	3.19E-06
G	A	0.04	0.603996	0.1326283	7.57E-06
TAG	T	0.03	0.7598439	0.1595346	2.96E-06
C	T	0.01	1.163287	0.2446704	3.08E-06
C	T	0.01	1.319682	0.2602615	7.03E-07
T	C	0.01	1.14204	0.2387834	2.71E-06
C	G	0.02	0.8172305	0.1798096	7.88E-06
G	A	0.02	1.167094	0.2179263	1.75E-07
G	GC	0.31	-0.2497629	0.05457865	6.87E-06
G	A	0.37	0.2421217	0.05243952	5.72E-06
C	A	0.14	0.3436613	0.07531477	7.28E-06
CA	C	0.01	1.328871	0.2420237	8.87E-08
C	CGT	0.02	-0.8106187	0.1791454	8.61E-06

C	CAAAA	0.01	1.178768	0.2537756	5.06E-06
C	CTATG	0.24	-0.2959062	0.06522279	8.17E-06
TACACACAC	T	0.03	0.7009251	0.1547555	8.45E-06
A	G	0.04	0.6165234	0.1324881	4.87E-06
G	A	0.01	1.134544	0.2487576	7.35E-06
A	G	0.37	-0.2455422	0.05271507	4.77E-06
G	T	0.03	0.6869602	0.1529566	9.98E-06
G	A	0.03	0.6984312	0.15322	7.43E-06
C	G	0.02	1.039295	0.2124747	1.64E-06
C	T	0.02	1.119196	0.2171049	4.68E-07
T	C	0.02	1.039295	0.2124747	1.64E-06
C	T	0.02	0.9630912	0.208136	5.47E-06
T	C	0.02	0.9630912	0.208136	5.47E-06
G	A	0.02	0.9872948	0.2123015	4.93E-06
C	A	0.02	0.9630912	0.208136	5.47E-06
GA	G	0.02	0.9630912	0.208136	5.47E-06
TA	T	0.02	0.9630912	0.208136	5.47E-06
T	C	0.02	0.9630912	0.208136	5.47E-06
C	T	0.02	0.9989774	0.2183731	6.92E-06
G	C	0.02	0.9989774	0.2183731	6.92E-06
T	G	0.02	0.9989774	0.2183731	6.92E-06
G	A	0.02	0.9989774	0.2183731	6.92E-06
T	C	0.02	0.9989774	0.2183731	6.92E-06
G	C	0.02	0.9989774	0.2183731	6.92E-06
G	A	0.02	0.9989774	0.2183731	6.92E-06
C	T	0.02	0.9989774	0.2183731	6.92E-06
C	T	0.02	0.9989774	0.2183731	6.92E-06
T	A	0.02	0.9989774	0.2183731	6.92E-06
C	T	0.02	0.9989774	0.2183731	6.92E-06
A	T	0.02	0.9608704	0.2134305	9.52E-06
ATT	A	0.02	0.9608704	0.2134305	9.52E-06
C	T	0.02	0.9608704	0.2134305	9.52E-06
T	A	0.02	0.9608704	0.2134305	9.52E-06
AC	A	0.01	1.284091	0.2414455	2.10E-07
T	C	0.02	0.9608704	0.2134305	9.52E-06
T	A	0.02	0.9608704	0.2134305	9.52E-06
C	T	0.35	0.2593499	0.05454268	3.07E-06
G	A	0.04	0.5954431	0.1298882	6.63E-06
G	T	0.05	0.5606332	0.1211682	5.48E-06
G	A	0.11	0.3630403	0.0797004	7.54E-06
G	T	0.11	0.3630403	0.0797004	7.54E-06
G	A	0.02	0.8365506	0.1830447	7.05E-06
C	T	0.11	0.3614165	0.0803688	9.73E-06
G	A	0.04	0.6376025	0.1407273	8.39E-06
C	T	0.13	0.3605396	0.07483712	2.31E-06
C	T	0.16	-0.3052936	0.06741789	8.48E-06
G	A	0.02	0.7592626	0.1630303	4.79E-06
T	C	0.11	0.3851266	0.08390165	6.45E-06
A	T	0.02	0.9013992	0.1975464	7.28E-06
G	C	0.01	1.258411	0.2442768	4.76E-07

CAT	C	0.01	1.160966	0.2566121	8.64E-06
C	T	0.02	-0.8667091	0.190157	7.49E-06
T	TAC	0.38	0.2729906	0.05820046	4.15E-06
G	A	0.03	-0.6781085	0.14953	8.29E-06
C	T	0.03	-0.6304171	0.1402157	9.83E-06
A	AG	0.02	-0.793772	0.1746359	7.92E-06
T	A	0.34	0.2515639	0.05511081	7.27E-06
T	G	0.01	-1.151691	0.2558402	9.59E-06
C	CT	0.02	-0.8801627	0.189791	5.26E-06
T	G	0.1	-0.3922551	0.08280279	3.36E-06
C	T	0.1	-0.4043815	0.08221401	1.45E-06
C	T	0.1	-0.3924854	0.0841456	4.66E-06
A	T	0.1	-0.3819466	0.08197515	4.77E-06
C	A	0.1	-0.3833577	0.08313932	5.92E-06
G	A	0.1	-0.3949354	0.082803	2.90E-06
C	T	0.14	-0.3441082	0.07223471	2.97E-06
C	T	0.1	-0.4017352	0.08298294	2.08E-06
C	T	0.1	-0.3949354	0.082803	2.90E-06
C	T	0.1	-0.3839519	0.08126615	3.55E-06
G	A	0.1	-0.3982366	0.08226223	2.09E-06
T	C	0.14	-0.331093	0.07166702	5.69E-06
T	C	0.14	-0.3441082	0.07223471	2.97E-06
G	A	0.1	-0.4017352	0.08298294	2.08E-06
A	C	0.14	-0.3596862	0.07372118	1.75E-06
A	C	0.14	-0.331093	0.07166702	5.69E-06
G	A	0.1	-0.3869969	0.08329127	5.06E-06
G	A	0.14	-0.3336102	0.07266455	6.47E-06
C	G	0.14	-0.3447073	0.07260938	3.20E-06
T	A	0.1	-0.3978605	0.08443251	3.76E-06
A	G	0.1	-0.3925781	0.08423262	4.74E-06
A	G	0.14	-0.3510582	0.07281206	2.28E-06
A	G	0.1	-0.3792128	0.08335981	7.79E-06
T	C	0.1	-0.3995976	0.08442387	3.42E-06
G	A	0.1	-0.3925781	0.08423262	4.74E-06
C	G	0.1	-0.4030043	0.0848062	3.14E-06
G	C	0.1	-0.3866176	0.08498631	7.78E-06
G	C	0.1	-0.3911352	0.08417829	5.05E-06
T	C	0.1	-0.3911352	0.08417829	5.05E-06
A	T	0.1	-0.3842159	0.08398884	6.96E-06
A	ACATTT	0.1	-0.3842159	0.08398884	6.96E-06
C	G	0.1	-0.4053505	0.0841724	2.34E-06
G	A	0.1	-0.3952311	0.0842914	4.18E-06
C	T	0.1	-0.3842159	0.08398884	6.96E-06
C	G	0.1	-0.3911352	0.08417829	5.05E-06
T	C	0.1	-0.3928867	0.08409555	4.51E-06
AAAC	A	0.1	-0.3842159	0.08398884	6.96E-06
CACTT	C	0.1	-0.3911352	0.08417829	5.05E-06
G	T	0.1	-0.3918767	0.08430217	5.01E-06
A	G	0.1	-0.3911352	0.08417829	5.05E-06
A	C	0.14	-0.332397	0.07214182	6.01E-06

G	C	0.1	-0.3842159	0.08398884	6.96E-06
T	C	0.1	-0.3842159	0.08398884	6.96E-06
A	G	0.1	-0.3911352	0.08417829	5.05E-06
T	A	0.14	-0.3410778	0.07265066	4.07E-06
G	A	0.1	-0.3806822	0.08445044	9.34E-06
C	G	0.1	-0.3842159	0.08398884	6.96E-06
G	A	0.1	-0.4021506	0.08434	2.91E-06
C	T	0.1	-0.3842159	0.08398884	6.96E-06
T	C	0.1	-0.3842159	0.08398884	6.96E-06
G	T	0.1	-0.3974126	0.08534525	4.83E-06
G	A	0.1	-0.3880203	0.08630666	9.84E-06
G	A	0.14	-0.3322434	0.07341818	8.64E-06
CAT	C	0.14	-0.3404032	0.07347746	5.37E-06
T	C	0.14	-0.3368396	0.07349257	6.69E-06
G	C	0.14	-0.3410932	0.07354585	5.25E-06
A	G	0.14	-0.3322434	0.07341818	8.64E-06
T	G	0.14	-0.3322434	0.07341818	8.64E-06
C	T	0.14	-0.3322434	0.07341818	8.64E-06
T	G	0.14	-0.3322434	0.07341818	8.64E-06
G	A	0.14	-0.3322434	0.07341818	8.64E-06
A	G	0.14	-0.3283151	0.07297464	9.70E-06
A	G	0.14	-0.3439326	0.07352979	4.40E-06
C	T	0.14	-0.3402116	0.07385711	6.04E-06
T	G	0.14	-0.3368396	0.07349257	6.69E-06
T	C	0.14	-0.3333094	0.07404105	9.59E-06
A	C	0.14	-0.3322434	0.07341818	8.64E-06
G	A	0.1	-0.3900909	0.08495776	6.45E-06
CTA	C	0.07	0.4505392	0.09935388	8.30E-06
C	G	0.08	0.456849	0.09714635	3.92E-06
T	A	0.08	0.456849	0.09714635	3.92E-06
C	T	0.08	0.456849	0.09714635	3.92E-06
A	G	0.08	0.456849	0.09714635	3.92E-06
T	C	0.08	0.456849	0.09714635	3.92E-06
G	A	0.21	-0.29495	0.0621372	3.21E-06
C	T	0.25	-0.3009499	0.05693942	2.50E-07
G	A	0.25	-0.3023173	0.05755697	2.94E-07
T	TTTTA	0.01	-1.053072	0.2262056	4.86E-06
CTTG	C	0.03	-0.6212175	0.133905	5.22E-06
G	A	0.24	-0.2831136	0.0618342	6.84E-06
T	A	0.24	-0.2874996	0.06175108	4.85E-06
A	G	0.24	-0.2827137	0.06154499	6.40E-06
G	A	0.24	-0.2786079	0.06155893	8.62E-06
A	T	0.24	-0.2831136	0.0618342	6.84E-06
G	A	0.24	-0.2837837	0.06152428	5.88E-06
T	G	0.24	-0.2856757	0.06180897	5.64E-06
T	C	0.24	-0.2831136	0.0618342	6.84E-06
A	G	0.24	-0.2890138	0.0617738	4.37E-06
A	G	0.24	-0.2831136	0.0618342	6.84E-06
C	CT	0.19	-0.3001627	0.06674368	9.78E-06
A	G	0.22	-0.286656	0.06360709	9.38E-06

T	C	0.01	-1.090841	0.2359856	5.62E-06
G	GAGAAAGA	0.01	-1.079303	0.2391918	9.15E-06
G	A	0.01	-1.079303	0.2391918	9.15E-06
C	T	0.01	-1.044993	0.228773	7.17E-06
G	A	0.01	-1.079303	0.2391918	9.15E-06
A	G	0.01	-1.079303	0.2391918	9.15E-06
G	A	0.01	-1.079303	0.2391918	9.15E-06
T	A	0.01	-1.079303	0.2391918	9.15E-06
G	C	0.01	-1.079303	0.2391918	9.15E-06
T	C	0.01	-1.214437	0.2479762	1.61E-06
T	C	0.01	-1.214437	0.2479762	1.61E-06
T	A	0.11	-0.3898986	0.08663933	9.65E-06
G	A	0.01	-1.221247	0.2504887	1.78E-06
C	T	0.01	-1.12386	0.2422144	5.20E-06
G	A	0.01	-1.113602	0.2399129	5.16E-06
T	C	0.03	-0.7526574	0.1620659	5.11E-06
G	A	0.03	-0.8168977	0.1595144	5.57E-07
CATT	C	0.12	-0.365747	0.07975429	6.62E-06
G	A	0.01	-1.046042	0.2273623	6.20E-06
C	G	0.01	-1.046042	0.2273623	6.20E-06
G	A	0.01	-1.238913	0.2521512	1.49E-06
C	G	0.01	-1.238913	0.2521512	1.49E-06
G	A	0.01	-1.158495	0.2567755	9.18E-06
A	G	0.01	-1.229046	0.234656	3.16E-07
A	AT	0.01	-1.106221	0.2357768	4.12E-06
C	T	0.26	-0.2582981	0.05709231	8.69E-06
AGT	A	0.09	-0.4507878	0.09587328	3.94E-06
G	A	0.02	-0.9871047	0.2065839	2.78E-06
TTTAA	T	0.02	-0.9871047	0.2065839	2.78E-06
C	T	0.02	-0.9871047	0.2065839	2.78E-06
T	G	0.02	-0.9871047	0.2065839	2.78E-06
A	AAG	0.02	-0.9871047	0.2065839	2.78E-06
G	A	0.02	-0.9871047	0.2065839	2.78E-06
T	TG	0.02	-0.8395137	0.1860476	9.15E-06
AG	A	0.02	-0.8395137	0.1860476	9.15E-06
A	G	0.26	-0.2665218	0.05891596	8.70E-06
T	C	0.26	-0.265297	0.05891916	9.54E-06
T	G	0.39	0.241616	0.05168482	4.45E-06
C	A	0.01	-1.154813	0.2441865	3.48E-06
G	A	0.46	0.2351269	0.05181504	8.18E-06
T	TGAAA	0.29	-0.281078	0.05604445	9.23E-07
G	A	0.04	-0.5641129	0.1243828	8.27E-06
A	G	0.35	0.2563732	0.05681131	9.08E-06
A	AT	0.03	0.6789339	0.1481794	6.69E-06
G	A	0.38	-0.2388232	0.05261548	8.09E-06
T	C	0.38	-0.2422989	0.05248266	5.73E-06
T	C	0.35	0.2488749	0.05531742	9.64E-06
C	T	0.01	1.206978	0.2675358	9.13E-06
G	GCACA	0.02	-0.8322176	0.1811076	6.31E-06
T	A	0.11	-0.3860898	0.08395115	6.20E-06

GT	G	0.07	0.467509	0.104085	9.96E-06
C	T	0.02	0.8729223	0.1840789	3.26E-06
C	T	0.3	0.2571041	0.05584448	6.07E-06
C	CTCTTTCTT	0.03	0.7676181	0.1553331	1.29E-06
T	A	0.02	0.9893161	0.2131639	5.14E-06
G	A	0.02	0.9893161	0.2131639	5.14E-06
T	C	0.02	0.9893161	0.2131639	5.14E-06
C	T	0.02	0.9893161	0.2131639	5.14E-06
A	C	0.02	0.9893161	0.2131639	5.14E-06
G	T	0.02	0.9893161	0.2131639	5.14E-06
C	T	0.02	0.9893161	0.2131639	5.14E-06
T	C	0.02	0.9893161	0.2131639	5.14E-06
C	T	0.02	0.9893161	0.2131639	5.14E-06
A	G	0.02	0.9893161	0.2131639	5.14E-06
C	T	0.02	0.9893161	0.2131639	5.14E-06
A	G	0.02	0.9893161	0.2131639	5.14E-06
T	G	0.02	1.03881	0.2179614	2.92E-06
G	T	0.02	0.9893161	0.2131639	5.14E-06
GA	G	0.07	0.4889119	0.1068188	6.84E-06
G	A	0.03	0.7776495	0.1708376	7.64E-06
G	C	0.21	0.2971251	0.06495842	6.93E-06
C	T	0.17	0.3208527	0.06853205	4.28E-06
ATTC	A	0.17	0.3101852	0.06866271	8.89E-06
A	G	0.17	0.3363194	0.06761122	1.11E-06
G	C	0.2	0.3029978	0.06603606	6.50E-06
A	T	0.18	0.3339836	0.06752442	1.27E-06
T	C	0.17	0.3147917	0.06811466	5.61E-06
A	C	0.2	0.3185493	0.06602918	2.23E-06
G	C	0.2	0.3185493	0.06602918	2.23E-06
G	T	0.17	0.3385312	0.06962191	1.87E-06
A	T	0.17	0.3467573	0.06952923	1.04E-06
C	T	0.2	0.3148809	0.0667751	3.68E-06
T	C	0.2	0.3169596	0.0663765	2.80E-06
G	C	0.18	0.3326819	0.06791623	1.59E-06
A	G	0.17	0.3372134	0.07005112	2.35E-06
TATTG	T	0.17	0.3352873	0.07008784	2.69E-06
C	A	0.17	0.3538229	0.06936535	6.08E-07
G	A	0.18	0.3326819	0.06791623	1.59E-06
G	A	0.17	0.3529562	0.06906441	5.80E-07
T	TA	0.21	0.2944948	0.06493936	8.24E-06
G	A	0.21	0.3122783	0.06482935	2.31E-06
A	G	0.21	0.2937914	0.06492721	8.61E-06
T	G	0.2	0.2978856	0.06465745	5.98E-06
A	G	0.18	0.3396198	0.06747127	8.39E-07
C	T	0.17	0.3544167	0.06958577	6.30E-07
C	G	0.18	0.3339836	0.06752442	1.27E-06
T	G	0.2	0.3014894	0.06497197	5.16E-06
A	T	0.2	0.3147804	0.06657062	3.47E-06
G	A	0.2	0.3128068	0.06651039	3.89E-06
G	A	0.18	0.3339836	0.06752442	1.27E-06

T	C	0.21	0.3001644	0.06495985	5.63E-06
C	T	0.2	0.3234426	0.06612385	1.64E-06
C	A	0.2	0.3144497	0.06616227	3.10E-06
G	A	0.18	0.3336198	0.06759418	1.33E-06
G	A	0.17	0.3462795	0.06918709	9.60E-07
A	G	0.21	0.2928035	0.0646176	8.37E-06
C	G	0.01	1.054353	0.229381	6.27E-06
G	T	0.08	0.4441507	0.09711361	6.95E-06
T	C	0.01	1.02546	0.2281753	9.85E-06
G	A	0.01	1.181099	0.259317	7.55E-06
G	A	0.01	1.309855	0.2696037	1.91E-06
GTCC	G	0.09	0.4255634	0.09202315	5.54E-06
C	T	0.14	0.3384213	0.07485797	8.76E-06
A	G	0.02	0.9907022	0.2083713	3.08E-06
G	C	0.02	0.9907022	0.2083713	3.08E-06
C	T	0.02	1.025006	0.2159594	3.20E-06
T	C	0.02	1.025006	0.2159594	3.20E-06
T	C	0.02	1.025006	0.2159594	3.20E-06
C	T	0.02	1.025006	0.2159594	3.20E-06
A	C	0.02	1.025006	0.2159594	3.20E-06
C	T	0.02	1.025006	0.2159594	3.20E-06
C	T	0.02	1.025006	0.2159594	3.20E-06
G	A	0.02	1.025006	0.2159594	3.20E-06
C	T	0.02	1.025006	0.2159594	3.20E-06
CT	C	0.02	1.025006	0.2159594	3.20E-06
A	G	0.02	1.025006	0.2159594	3.20E-06
C	CA	0.06	0.497787	0.1094768	7.81E-06
T	TA	0.17	0.3238951	0.07048953	6.32E-06
G	A	0.07	-0.4680982	0.1019087	6.36E-06
G	C	0.06	-0.5055607	0.1100472	6.34E-06
G	A	0.01	1.177211	0.2479149	3.16E-06
A	G	0.16	0.3333326	0.07312919	7.44E-06
A	G	0.23	0.2919398	0.06346093	6.17E-06
T	C	0.23	0.2951549	0.06347904	4.95E-06
C	T	0.28	-0.2739081	0.06036155	8.13E-06
A	G	0.34	-0.2612121	0.05782517	8.90E-06
T	C	0.01	1.202166	0.2660114	8.83E-06
G	A	0.16	0.3339267	0.07154218	4.57E-06
C	T	0.02	0.8955848	0.1935146	5.45E-06
C	T	0.15	0.3609906	0.07525825	2.54E-06
G	A	0.07	0.4908632	0.1089474	9.37E-06
G	A	0.31	0.1229276	0.0259809	3.42E-06
G	A	0.32	0.125984	0.02582718	1.74E-06
A	G	0.32	0.1196224	0.02567722	4.75E-06
G	A	0.35	0.1146406	0.02535268	8.73E-06
G	A	0.35	0.1146406	0.02535268	8.73E-06
G	T	0.35	0.1146406	0.02535268	8.73E-06
T	C	0.35	0.1146406	0.02535268	8.73E-06
T	A	0.35	0.1146406	0.02535268	8.73E-06
C	A	0.35	0.1146406	0.02535268	8.73E-06

G	C	0.35	0.1233938	0.02526848	1.70E-06
G	A	0.35	0.1205087	0.02509313	2.47E-06
C	T	0.35	0.1186189	0.02503661	3.32E-06
T	C	0.35	0.1216529	0.02505477	1.94E-06
T	C	0.35	0.1211614	0.0250728	2.15E-06
G	T	0.29	0.1187894	0.02597032	6.93E-06
G	A	0.33	0.1118214	0.02483854	9.52E-06
A	G	0.33	0.1118214	0.02483854	9.52E-06
T	A	0.32	0.1134268	0.02486745	7.33E-06
T	C	0.32	0.1143414	0.02484973	6.14E-06
A	C	0.29	0.12536	0.02533668	1.26E-06
G	A	0.33	0.1132348	0.02479171	7.14E-06
A	G	0.17	0.1538439	0.03242001	3.21E-06
G	A	0.15	0.1610973	0.03462547	4.88E-06
A	T	0.16	0.1532234	0.03276079	4.37E-06
A	G	0.08	0.2098236	0.04599927	7.33E-06
T	C	0.38	0.1152938	0.02558799	9.36E-06
G	A	0.41	0.1102653	0.02376472	5.17E-06
T	C	0.44	0.1158977	0.02417568	2.57E-06
A	G	0.45	0.1153478	0.0240185	2.47E-06
T	A	0.29	-0.120263	0.02663331	8.97E-06
C	G	0.45	0.1135188	0.02402653	3.53E-06
C	T	0.45	0.1147308	0.02404975	2.86E-06
G	A	0.45	0.1115165	0.02410923	5.51E-06
C	CT	0.46	-0.1077841	0.02378072	8.33E-06
G	C	0.46	-0.1127889	0.02378762	3.27E-06
C	T	0.45	0.1121388	0.02407434	4.76E-06
T	C	0.46	-0.1124206	0.0237981	3.54E-06
G	C	0.46	-0.1124206	0.0237981	3.54E-06
T	A	0.31	-0.119693	0.02644198	8.54E-06
A	G	0.46	-0.1105442	0.02389123	5.48E-06
T	C	0.46	-0.1090346	0.02386511	7.09E-06
T	C	0.3	-0.1217412	0.02660848	6.89E-06
TCAGA	T	0.46	-0.1104959	0.02376437	4.95E-06
T	C	0.47	-0.108337	0.02382336	7.79E-06
C	T	0.34	-0.120139	0.02641222	7.75E-06
C	T	0.34	-0.1254533	0.02648605	3.34E-06
G	A	0.34	-0.1241331	0.02648767	4.19E-06
G	A	0.33	-0.1206688	0.02644801	7.29E-06
G	T	0.35	-0.1172722	0.02510883	4.50E-06
A	G	0.35	-0.1156701	0.02517464	6.32E-06
C	G	0.35	-0.1172722	0.02510883	4.50E-06
G	C	0.35	-0.11822	0.02512509	3.85E-06
G	T	0.35	-0.1146177	0.02521126	7.83E-06
G	T	0.35	-0.1146177	0.02521126	7.83E-06
C	A	0.35	-0.1211575	0.02528132	2.59E-06
T	A	0.24	-0.1354148	0.02984928	8.18E-06
A	G	0.02	0.3824008	0.07818713	1.64E-06
G	C	0.28	-0.1248966	0.02684894	4.90E-06
T	C	0.29	-0.1247311	0.02657649	4.06E-06

C	CACACACAT	0.07	0.2282755	0.04775973	2.74E-06
C	T	0.01	0.4816015	0.1044504	5.89E-06
CTG	C	0.04	0.2913082	0.06110724	2.91E-06
C	ATACACACACACACA	0.01	0.5783501	0.1181606	1.61E-06
C	CTG	0.04	-0.3102751	0.0654133	3.24E-06
A	T	0.04	0.2870178	0.0611968	4.12E-06
A	G	0.06	-0.2189763	0.04795695	7.18E-06
C	T	0.04	0.2786527	0.06148889	8.35E-06
CA	C	0.07	-0.225476	0.04793584	3.88E-06
G	C	0.08	-0.2287894	0.04754155	2.36E-06
C	T	0.08	-0.2301048	0.047332	1.88E-06
G	A	0.08	-0.2301048	0.047332	1.88E-06
G	GTCT	0.08	-0.2052041	0.0453356	8.55E-06
T	C	0.06	-0.2341623	0.05133632	7.33E-06
G	A	0.07	-0.2355389	0.0479261	1.47E-06
A	C	0.05	0.2809252	0.05950796	3.59E-06
T	C	0.02	0.443671	0.09858934	9.59E-06
A	G	0.03	0.3349594	0.07150875	4.24E-06
G	A	0.06	0.2329852	0.05046558	5.73E-06
CGT	C	0.02	0.4101135	0.08693105	3.64E-06
A	C	0.01	0.5643777	0.1228016	6.29E-06
A	G	0.01	0.5643777	0.1228016	6.29E-06
T	C	0.01	0.5214662	0.1078306	2.12E-06
G	A	0.02	0.4516985	0.09926771	7.70E-06
AT	A	0.21	-0.1268323	0.02798622	8.35E-06
C	G	0.48	-0.1104214	0.0236022	4.35E-06
C	T	0.12	0.1715366	0.03736153	6.42E-06
T	G	0.13	0.1532788	0.03205288	2.71E-06
G	A	0.13	0.157109	0.03349398	4.11E-06
T	C	0.07	0.2174031	0.04437352	1.58E-06
A	G	0.2	0.1334705	0.02919737	7.01E-06
G	T	0.44	0.111222	0.02459773	8.73E-06
G	T	0.44	0.1108685	0.02456271	9.04E-06
A	G	0.43	0.1122579	0.02437151	6.01E-06
C	T	0.45	0.1101394	0.02444926	9.40E-06
GGGAAGGAAGGAA	G	0.02	0.3629077	0.08070387	9.74E-06
C	T	0.06	0.2655694	0.0548246	2.04E-06
A	G	0.01	0.4950168	0.106149	4.65E-06
T	C	0.1	0.2016569	0.04038359	1.01E-06
T	C	0.03	0.3177042	0.06648972	2.76E-06
G	A	0.04	0.313591	0.06228482	8.34E-07
A	T	0.04	0.2909191	0.06394166	7.72E-06
T	A	0.01	-1.220873	0.271466	9.71E-06
C	T	0.38	-0.2485072	0.05428089	6.80E-06
GACAC	G	0.03	-0.7267002	0.1513839	2.50E-06
A	C	0.01	-1.123171	0.2415893	4.96E-06
G	A	0.03	-0.7236498	0.1556135	4.93E-06
A	C	0.03	-0.7236498	0.1556135	4.93E-06
T	C	0.03	-0.7236498	0.1556135	4.93E-06
A	G	0.15	0.3569419	0.07534247	3.33E-06

G	A	0.11	-0.3741021	0.08308154	9.48E-06
G	A	0.01	-1.180944	0.2552529	5.49E-06
A	G	0.02	-0.8134106	0.1801251	8.96E-06
A	G	0.01	-1.049553	0.2307599	7.77E-06
T	C	0.01	-1.049553	0.2307599	7.77E-06
A	ACACACACG	0.03	-0.7721132	0.170949	8.93E-06
T	C	0.09	-0.4425102	0.09733349	7.83E-06
C	T	0.45	-0.2404264	0.051547	4.63E-06
A	AACATT	0.44	-0.2568906	0.05133181	9.62E-07
G	A	0.32	-0.2763421	0.05620042	1.45E-06
C	A	0.42	-0.2602512	0.05186475	9.03E-07
G	C	0.01	-1.045299	0.2257793	5.41E-06
C	CTGTG	0.01	-1.048818	0.2322718	8.97E-06
T	TTCTC	0.01	-1.052075	0.2323272	8.48E-06
A	AAAAATAAAAATAAAA	0.02	-0.9670628	0.2138678	8.73E-06
C	G	0.01	-1.140334	0.2500497	7.36E-06
A	C	0.02	-1.045378	0.2069103	7.67E-07
T	C	0.16	0.3200434	0.0668178	2.62E-06
TA	T	0.02	-0.8835724	0.1799915	1.51E-06
C	T	0.03	-0.8542069	0.1688766	7.46E-07
T	C	0.03	-0.6587247	0.1430717	6.06E-06
G	GTCTATCTATCTA	0.22	-0.2966404	0.06110224	1.94E-06
A	ATAAATT	0.26	0.2873564	0.06075132	3.44E-06
G	A	0.02	-0.9787578	0.2167929	9.00E-06
A	G	0.4	-0.2711833	0.05548674	1.67E-06
A	T	0.06	-0.4729626	0.1036774	7.31E-06
A	G	0.02	-1.234409	0.2196849	4.60E-08
A	G	0.1	-0.4116723	0.0899652	6.87E-06
G	T	0.11	0.4003226	0.08211503	1.77E-06
C	T	0.42	-0.2488163	0.05494119	8.46E-06
C	G	0.01	-1.269025	0.2612348	1.91E-06
C	T	0.01	-1.269025	0.2612348	1.91E-06
C	T	0.01	-1.269025	0.2612348	1.91E-06
CCGAG	C	0.01	-1.164339	0.2468095	3.64E-06
C	T	0.03	-0.7620247	0.1653889	5.97E-06
A	G	0.02	-0.8667376	0.1923516	9.35E-06
A	G	0.33	-0.2526524	0.05531713	7.14E-06
C	T	0.3	-0.2575991	0.05736233	1.00E-05
A	G	0.3	-0.2574117	0.05715429	9.44E-06
C	T	0.3	-0.2591064	0.05714717	8.27E-06
T	G	0.3	-0.2629471	0.05694691	5.71E-06
GCTCT	G	0.32	-0.2552698	0.05614052	7.81E-06
T	C	0.39	-0.2642046	0.0541173	1.71E-06
C	T	0.39	-0.2661982	0.0541363	1.45E-06
T	C	0.35	-0.2764804	0.05511024	9.08E-07
A	G	0.31	-0.2917167	0.05653181	4.56E-07
G	A	0.27	-0.3050272	0.05880433	4.00E-07
TGACAAAAAC	T	0.32	-0.2582232	0.05380304	2.51E-06
GT	G	0.3	-0.2881139	0.05704251	7.72E-07
C	G	0.35	-0.2815432	0.05488753	5.30E-07

T	TGAC	0.35	-0.2747811	0.0551552	1.07E-06
C	T	0.31	-0.2964456	0.05664396	3.19E-07
A	G	0.33	-0.3158546	0.05450812	1.84E-08
T	C	0.35	-0.2876964	0.05492501	3.12E-07
A	G	0.35	-0.2876964	0.05492501	3.12E-07
G	A	0.31	-0.2959549	0.05687962	3.70E-07
G	T	0.34	-0.2674267	0.05521231	2.04E-06
T	C	0.35	-0.2897913	0.05496933	2.64E-07
T	C	0.35	-0.2956873	0.05494359	1.53E-07
A	G	0.35	-0.2839761	0.05507498	4.65E-07
T	G	0.34	-0.2801714	0.05524585	7.00E-07
C	G	0.35	-0.2763067	0.05514695	9.36E-07
C	T	0.27	-0.306514	0.058852	3.61E-07
T	C	0.35	-0.2897913	0.05496933	2.64E-07
G	A	0.34	-0.2837544	0.05578164	6.50E-07
T	C	0.35	-0.2897913	0.05496933	2.64E-07
G	C	0.35	-0.2799845	0.05507217	6.59E-07
T	C	0.35	-0.2799845	0.05507217	6.59E-07
A	G	0.35	-0.2844425	0.05520347	4.73E-07
A	G	0.35	-0.2914634	0.05499545	2.30E-07
A	T	0.35	-0.2799845	0.05507217	6.59E-07
T	C	0.35	-0.2799845	0.05507217	6.59E-07
C	G	0.35	-0.2836366	0.05493265	4.49E-07
T	G	0.35	-0.2801058	0.05490705	6.06E-07
G	T	0.31	-0.2894553	0.05620528	4.80E-07
A	C	0.35	-0.2827716	0.05497585	4.95E-07
C	T	0.32	-0.3022315	0.05626525	1.61E-07
A	G	0.32	-0.3022315	0.05626525	1.61E-07
G	T	0.32	-0.2922767	0.05640499	4.11E-07
G	C	0.32	-0.2983072	0.05643075	2.46E-07
T	G	0.32	-0.2922767	0.05640499	4.11E-07
T	G	0.35	-0.2897913	0.05496933	2.64E-07
A	T	0.32	-0.3014956	0.05637707	1.82E-07
C	A	0.28	-0.3128734	0.05886059	2.13E-07
A	G	0.32	-0.3022315	0.05626525	1.61E-07
C	T	0.32	-0.3022315	0.05626525	1.61E-07
T	C	0.32	-0.2902226	0.05638457	4.86E-07
T	C	0.32	-0.2935452	0.05636767	3.62E-07
G	T	0.27	-0.3080654	0.05882708	3.14E-07
G	A	0.32	-0.2922767	0.05640499	4.11E-07
T	C	0.35	-0.2816044	0.05509495	5.78E-07
T	A	0.32	-0.3022315	0.05626525	1.61E-07
AC	A	0.31	-0.2803485	0.05675227	1.31E-06
C	T	0.32	-0.3007237	0.05637184	1.94E-07
T	C	0.31	-0.3044014	0.0563532	1.39E-07
G	C	0.3	-0.2803408	0.05664144	1.25E-06
A	T	0.32	-0.3022315	0.05626525	1.61E-07
A	T	0.35	-0.2914634	0.05499545	2.30E-07
T	C	0.36	-0.2882593	0.05507264	3.18E-07
G	A	0.32	-0.2947881	0.05618706	3.00E-07

G	C	0.32	-0.3100524	0.0561124	7.42E-08
C	T	0.34	-0.2619853	0.05624548	4.77E-06
C	T	0.26	-0.2775726	0.06058344	6.70E-06
T	C	0.27	-0.271434	0.05940776	7.09E-06
G	A	0.27	-0.2677936	0.05864343	7.17E-06
G	C	0.34	-0.2619853	0.05624548	4.77E-06
A	ACTG	0.26	-0.2724122	0.06061796	9.86E-06
T	C	0.28	-0.2687646	0.05920593	8.07E-06
A	T	0.33	-0.257984	0.05623095	6.52E-06
G	A	0.26	-0.2733635	0.06061155	9.19E-06
A	G	0.33	-0.2592348	0.0562219	5.88E-06
G	A	0.26	-0.2733635	0.06061155	9.19E-06
C	T	0.26	-0.2733635	0.06061155	9.19E-06
A	G	0.34	-0.272734	0.05626469	2.01E-06
T	C	0.34	-0.2687835	0.05638411	2.91E-06
G	C	0.34	-0.272734	0.05626469	2.01E-06
A	G	0.34	-0.2666117	0.05626268	3.31E-06
G	A	0.33	-0.2665351	0.05617638	3.22E-06
T	C	0.26	-0.2939598	0.06050679	1.91E-06
C	A	0.25	-0.2838693	0.0606035	4.24E-06
C	G	0.26	-0.2872589	0.06052909	3.20E-06
G	A	0.28	-0.2821813	0.05984723	3.68E-06
G	A	0.01	-1.025824	0.2247718	7.25E-06
T	C	0.1	0.3938164	0.08706	8.66E-06
A	G	0.01	1.075233	0.2382011	9.03E-06
A	C	0.05	-0.5564192	0.1197219	4.99E-06
C	G	0.49	0.2344312	0.05096014	6.17E-06
C	T	0.04	-0.6581221	0.1336347	1.40E-06
A	G	0.03	0.7023027	0.1560912	9.63E-06
A	G	0.04	0.6929104	0.1431353	2.07E-06
G	A	0.04	0.6929104	0.1431353	2.07E-06
G	A	0.04	0.6781263	0.1446978	4.19E-06
G	A	0.04	0.6781263	0.1446978	4.19E-06
C	T	0.04	0.6781263	0.1446978	4.19E-06
C	A	0.24	-0.291661	0.0620706	3.96E-06
A	G	0.24	-0.3110395	0.06253083	1.11E-06
G	A	0.23	-0.3178401	0.06266723	6.98E-07
G	C	0.24	-0.2842185	0.06185573	6.32E-06
G	A	0.24	-0.2830496	0.06211268	7.47E-06
G	A	0.24	-0.2899611	0.06179839	4.09E-06
A	G	0.24	-0.2899611	0.06179839	4.09E-06
A	G	0.24	-0.2899611	0.06179839	4.09E-06
C	A	0.24	-0.2911561	0.06203677	4.07E-06
G	A	0.24	-0.2918182	0.06176876	3.53E-06
A	G	0.32	-0.3005488	0.05694212	2.56E-07
C	T	0.26	-0.3199449	0.05909402	1.30E-07
C	T	0.24	-0.3355819	0.06206464	1.35E-07
T	G	0.2	-0.322334	0.06700879	2.38E-06
G	T	0.2	-0.3230167	0.06704905	2.31E-06
ATTATTTTATTATTTA	C	0.02	-0.8717316	0.1801723	2.10E-06

C	T	0.01	-1.21769	0.268752	8.38E-06
T	C	0.01	-1.21769	0.268752	8.38E-06
G	A	0.01	-1.21769	0.268752	8.38E-06
T	A	0.01	-1.21769	0.268752	8.38E-06
C	G	0.01	-1.21769	0.268752	8.38E-06
A	C	0.01	-1.21769	0.268752	8.38E-06
T	C	0.01	-1.21769	0.268752	8.38E-06
C	T	0.01	-1.28129	0.2550703	8.80E-07
C	T	0.02	-0.9464041	0.2004661	3.59E-06
G	A	0.24	-0.2900748	0.06375961	7.72E-06
A	G	0.25	-0.2855612	0.06323378	8.95E-06
AT	A	0.03	0.6484052	0.1395709	5.04E-06
C	T	0.06	-0.5234836	0.1164515	9.80E-06
T	C	0.01	-1.137557	0.2412122	3.67E-06
T	C	0.46	-0.2408192	0.05231005	6.08E-06
G	A	0.38	-0.2377644	0.05260033	8.79E-06
CA	C	0.1	0.2206343	0.03718164	8.91E-09
T	C	0.41	-0.098315	0.01602418	2.96E-09
T	C	0.39	-0.1061216	0.01631248	3.74E-10
C	T	0.39	-0.1077518	0.01630788	2.09E-10
T	C	0.35	-0.1046906	0.01665773	1.30E-09
G	A	0.27	-0.1094249	0.01781686	2.86E-09
C	G	0.35	-0.1049692	0.01659674	1.04E-09
T	C	0.35	-0.1022139	0.01664496	2.87E-09
A	G	0.35	-0.1022139	0.01664496	2.87E-09
G	T	0.34	-0.1027156	0.01668801	2.65E-09
T	C	0.35	-0.1030322	0.01665628	2.24E-09
T	C	0.35	-0.1053479	0.01664154	1.01E-09
A	G	0.35	-0.1042541	0.01666529	1.52E-09
T	G	0.34	-0.1005095	0.01674215	6.06E-09
C	G	0.35	-0.1049586	0.01666671	1.21E-09
C	T	0.27	-0.1128922	0.01780419	9.49E-10
T	C	0.35	-0.1030322	0.01665628	2.24E-09
G	A	0.34	-0.1052369	0.01687889	1.71E-09
T	C	0.35	-0.1030322	0.01665628	2.24E-09
G	C	0.35	-0.1039471	0.01665975	1.67E-09
T	C	0.35	-0.1039471	0.01665975	1.67E-09
A	G	0.35	-0.1052708	0.01669817	1.16E-09
A	G	0.35	-0.1047761	0.01665311	1.25E-09
A	T	0.35	-0.1039471	0.01665975	1.67E-09
T	C	0.35	-0.1039471	0.01665975	1.67E-09
C	G	0.35	-0.1033364	0.01662925	1.92E-09
T	G	0.35	-0.1041486	0.01660788	1.40E-09
G	T	0.31	-0.1062211	0.0170105	1.62E-09
A	C	0.35	-0.1040876	0.01663507	1.51E-09
C	T	0.32	-0.1092072	0.01702938	6.33E-10
A	G	0.32	-0.1092072	0.01702938	6.33E-10
G	T	0.32	-0.1102952	0.01704169	4.53E-10
G	C	0.32	-0.1101351	0.01706366	5.01E-10
T	G	0.32	-0.1102952	0.01704169	4.53E-10

T	G	0.35	-0.1030322	0.01665628	2.24E-09
A	T	0.32	-0.1101871	0.01705402	4.82E-10
C	A	0.28	-0.1126361	0.0178224	1.07E-09
A	G	0.32	-0.1092072	0.01702938	6.33E-10
C	T	0.32	-0.1092072	0.01702938	6.33E-10
T	C	0.32	-0.110173	0.01703214	4.62E-10
T	C	0.32	-0.1103623	0.01703251	4.34E-10
G	T	0.27	-0.1130306	0.0177989	8.99E-10
G	A	0.32	-0.1102952	0.01704169	4.53E-10
T	C	0.35	-0.1056793	0.01665532	9.26E-10
T	A	0.32	-0.1092072	0.01702938	6.33E-10
C	T	0.32	-0.1098243	0.01705367	5.43E-10
T	C	0.31	-0.1113398	0.01704754	3.24E-10
G	C	0.3	-0.1056047	0.01713345	2.53E-09
A	T	0.32	-0.1092072	0.01702938	6.33E-10
A	T	0.35	-0.1047761	0.01665311	1.25E-09
T	C	0.36	-0.1043725	0.01667267	1.49E-09
G	A	0.32	-0.1092146	0.01699342	5.85E-10
G	C	0.32	-0.1099988	0.01699315	4.50E-10
G	A	0.06	-0.2455424	0.05221309	3.90E-06
G	A	0.06	-0.2455424	0.05221309	3.90E-06
C	T	0.43	0.1179541	0.02453328	2.41E-06
G	T	0.19	-0.1425462	0.03142571	8.20E-06
G	A	0.29	-0.1282977	0.02723751	3.76E-06
TA	T	0.3	-0.1341519	0.0267601	9.24E-07
A	C	0.31	-0.1225833	0.02652042	5.59E-06
C	G	0.28	-0.127077	0.02757938	5.97E-06
G	A	0.13	0.1557321	0.03386997	6.23E-06
C	T	0.23	0.1330167	0.02859616	4.91E-06
C	CTG	0.05	0.2908802	0.05991572	1.94E-06
G	A	0.03	0.3464769	0.07495097	5.58E-06
A	T	0.04	0.2756006	0.06031615	7.08E-06
G	T	0.03	0.350128	0.07650221	6.85E-06
A	AAAAC	0.05	-0.2803241	0.06035585	5.06E-06
G	A	0.01	0.5505849	0.1159496	3.16E-06
C	T	0.2	0.1334347	0.02950855	8.72E-06
CTT	C	0.02	0.3498543	0.07472391	4.28E-06
C	T	0.05	0.2381555	0.05226207	7.47E-06
G	T	0.49	0.1120032	0.02449259	6.96E-06
A	G	0.49	-0.1112372	0.02464249	9.03E-06
A	T	0.43	-0.1110979	0.02431628	7.09E-06
G	A	0.49	-0.1197484	0.02456433	1.77E-06
A	G	0.49	-0.1134485	0.0245333	5.54E-06
A	G	0.49	-0.111749	0.02427108	6.06E-06
C	T	0.3	0.1215342	0.02685625	8.59E-06
TA	T	0.17	-0.1480895	0.03153038	4.00E-06
G	C	0.01	0.5151297	0.1098556	4.14E-06
T	C	0.23	0.1574468	0.03003768	3.07E-07
T	C	0.23	0.1456656	0.0302703	2.36E-06
A	C	0.23	0.1456656	0.0302703	2.36E-06

G	T	0.23	0.1429316	0.03029543	3.64E-06
C	T	0.23	0.1471217	0.03026805	1.89E-06
G	A	0.23	0.1456656	0.0302703	2.36E-06
G	A	0.23	0.1485993	0.0302641	1.50E-06
T	C	0.23	0.1458475	0.03024671	2.26E-06
A	C	0.23	0.1445949	0.0302766	2.79E-06
C	T	0.23	0.1444669	0.03024361	2.78E-06
A	G	0.23	0.1458475	0.03024671	2.26E-06
C	T	0.23	0.1432276	0.03026921	3.41E-06
G	A	0.23	0.1443633	0.03025348	2.84E-06
C	T	0.02	0.350369	0.07712461	7.95E-06
G	C	0.03	0.324611	0.07023249	5.60E-06
C	T	0.04	0.3129159	0.06779302	5.76E-06
T	C	0.01	0.5307399	0.1074246	1.30E-06
T	C	0.01	0.5307399	0.1074246	1.30E-06
G	A	0.07	0.2095575	0.04665546	9.96E-06
G	A	0.07	0.2095575	0.04665546	9.96E-06
GTAA	G	0.02	0.4527783	0.09439397	2.54E-06
C	G	0.02	0.4527783	0.09439397	2.54E-06
C	T	0.01	0.488741	0.1044962	4.37E-06
G	A	0.02	0.4321684	0.09617384	9.87E-06
G	A	0.04	0.2912641	0.06474549	9.66E-06
T	G	0.22	-0.1316449	0.02883464	7.20E-06
G	A	0.01	0.571336	0.10896	3.04E-07
G	A	0.05	0.5482482	0.1204315	7.63E-06
CTGTGTGTGTGTG	C	0.1	0.4112708	0.09140073	9.62E-06
G	C	0.31	-0.2499028	0.05330418	4.16E-06
C	T	0.29	0.2696943	0.0593219	7.83E-06
C	T	0.27	0.2876658	0.05920034	1.90E-06
CACACAT	C	0.12	-0.4100448	0.0875812	4.28E-06
T	G	0.19	-0.3053555	0.06071421	8.55E-07
G	A	0.07	0.4715219	0.1001065	3.77E-06
A	G	0.1	0.4503346	0.08860356	6.63E-07
T	C	0.07	-0.4898442	0.1003215	1.71E-06
T	C	0.07	-0.5052084	0.1007472	9.17E-07
T	C	0.07	-0.4734871	0.1023616	5.51E-06
T	G	0.07	-0.4748871	0.101947	4.76E-06
C	G	0.07	-0.5023405	0.1031615	1.81E-06
G	C	0.07	-0.4734666	0.1005135	3.76E-06
G	GACACAGAC	0.06	-0.5793192	0.1096558	2.50E-07
C	T	0.07	-0.4698944	0.1009097	4.80E-06
C	G	0.07	-0.4777808	0.1004723	3.07E-06
T	G	0.07	-0.4777808	0.1004723	3.07E-06
T	G	0.07	-0.4905803	0.100367	1.66E-06
G	A	0.09	-0.4572035	0.0875108	3.34E-07
T	G	0.1	-0.4246459	0.08637511	1.46E-06
A	T	0.1	-0.428668	0.08733068	1.51E-06
G	A	0.1	-0.4293031	0.0865724	1.19E-06
ATT	A	0.1	-0.4029861	0.0858185	4.02E-06
T	C	0.1	-0.421082	0.08635377	1.76E-06

G	A	0.1	-0.4275859	0.08611124	1.16E-06
G	A	0.1	-0.4275859	0.08611124	1.16E-06
C	A	0.1	-0.4275859	0.08611124	1.16E-06
G	T	0.1	-0.421082	0.08635377	1.76E-06
C	G	0.1	-0.4275859	0.08611124	1.16E-06
A	G	0.1	-0.421082	0.08635377	1.76E-06
A	G	0.1	-0.4275859	0.08611124	1.16E-06
T	A	0.1	-0.4275859	0.08611124	1.16E-06
A	G	0.1	-0.4275859	0.08611124	1.16E-06
C	T	0.1	-0.4130265	0.08733847	3.46E-06
C	G	0.1	-0.4275859	0.08611124	1.16E-06
G	A	0.1	-0.4209135	0.08645199	1.82E-06
T	C	0.1	-0.4275859	0.08611124	1.16E-06
T	C	0.1	-0.394122	0.08592146	6.54E-06
C	A	0.1	-0.4263217	0.08668688	1.45E-06
T	C	0.1	-0.4263217	0.08668688	1.45E-06
C	T	0.1	-0.4193356	0.08568448	1.62E-06
A	G	0.1	-0.421082	0.08635377	1.76E-06
CTACTT	C	0.1	-0.4261449	0.0869138	1.55E-06
G	A	0.1	-0.4193356	0.08568448	1.62E-06
C	G	0.1	-0.4263217	0.08668688	1.45E-06
G	A	0.1	-0.4264352	0.08640308	1.33E-06
C	A	0.1	0.4013971	0.08874789	8.68E-06
A	G	0.14	0.3412922	0.07485907	7.40E-06
C	G	0.14	0.3434488	0.07425834	5.52E-06
C	T	0.14	0.3393058	0.07532988	9.42E-06
G	T	0.15	0.3365087	0.07372118	7.23E-06
G	C	0.15	0.3321099	0.07322841	8.22E-06
A	G	0.15	0.3321099	0.07322841	8.22E-06
T	G	0.15	0.3321099	0.07322841	8.22E-06
G	A	0.14	0.34221	0.07401243	5.56E-06
T	A	0.14	0.3333269	0.07407617	9.61E-06
T	C	0.14	0.3345794	0.07396748	8.67E-06
A	G	0.16	0.3254018	0.07105656	6.77E-06
G	C	0.15	0.3659077	0.07356938	1.11E-06
G	T	0.16	0.3313623	0.07061583	4.08E-06
A	C	0.16	0.3265269	0.07009617	4.76E-06
A	G	0.16	0.3235131	0.06996462	5.55E-06
G	A	0.16	0.3451933	0.07040522	1.55E-06
T	C	0.16	0.3235131	0.06996462	5.55E-06
C	T	0.16	0.3265269	0.07009617	4.76E-06
C	T	0.16	0.3235131	0.06996462	5.55E-06
C	T	0.16	0.3235131	0.06996462	5.55E-06
C	T	0.16	0.3235131	0.06996462	5.55E-06
T	C	0.21	0.2923257	0.06443672	8.18E-06
A	G	0.21	0.2906381	0.06430863	8.82E-06
C	A	0.21	0.286742	0.06384746	9.98E-06
A	G	0.21	0.2933592	0.06410735	6.87E-06
G	A	0.21	0.286742	0.06384746	9.98E-06
G	C	0.21	0.2894277	0.06383117	8.26E-06

A	C	0.21	0.286742	0.06384746	9.98E-06
T	C	0.21	0.3069565	0.06378603	2.36E-06
T	C	0.09	-0.4129782	0.09108501	8.27E-06
AGAAGGAAAAGAAG	A	0.02	-0.9266581	0.2018653	6.44E-06
G	A	0.04	0.681038	0.1498905	7.93E-06
T	C	0.02	0.7988852	0.1745503	6.85E-06
A	G	0.44	-0.2444573	0.05234108	4.51E-06
T	C	0.44	-0.2353753	0.05236819	9.83E-06
G	A	0.43	-0.2430431	0.05249615	5.41E-06
T	C	0.44	-0.2450654	0.05219206	4.03E-06
A	T	0.44	-0.2364841	0.05231751	8.79E-06
G	A	0.43	-0.2374082	0.05242853	8.48E-06
A	C	0.2	-0.3090844	0.0663345	4.73E-06
T	C	0.39	-0.2361564	0.05217478	8.56E-06
T	A	0.2	-0.3031567	0.0664686	7.35E-06
A	G	0.31	-0.2643127	0.05794619	7.33E-06
G	GGAGGATCGTTTGAG	0.31	0.2386185	0.05125048	4.81E-06
G	A	0.06	-0.5175868	0.1083387	2.82E-06
C	T	0.06	-0.6057342	0.1160299	3.50E-07
C	A	0.06	-0.6057342	0.1160299	3.50E-07
TATC	T	0.06	-0.6146641	0.1166014	2.72E-07
A	G	0.02	-0.9798942	0.198154	1.30E-06
C	A	0.02	-0.9330969	0.1856236	8.86E-07
T	C	0.01	-1.110917	0.2372501	4.34E-06
A	G	0.04	-0.5913248	0.1291779	6.93E-06
A	G	0.02	-0.904968	0.1977312	6.96E-06
G	T	0.13	-0.4028857	0.07947433	7.24E-07
TCA	T	0.16	0.3726819	0.07842505	3.17E-06
C	T	0.02	-1.065881	0.2227295	2.72E-06
C	A	0.02	-0.9261412	0.2002742	5.63E-06
A	T	0.06	-0.5481191	0.1074699	6.25E-07
A	G	0.07	-0.4865286	0.1028451	3.49E-06
T	C	0.06	-0.5481191	0.1074699	6.25E-07
A	G	0.06	-0.5481191	0.1074699	6.25E-07
G	C	0.06	-0.5481191	0.1074699	6.25E-07
T	C	0.05	-0.5948978	0.1167175	6.35E-07
ATTAT	A	0.06	-0.5481191	0.1074699	6.25E-07
C	T	0.06	-0.5481191	0.1074699	6.25E-07
T	C	0.06	-0.5481191	0.1074699	6.25E-07
C	T	0.08	-0.4471157	0.09930197	9.63E-06
C	T	0.07	-0.4994944	0.1031882	2.11E-06
G	A	0.08	-0.4624606	0.09861426	4.21E-06
G	A	0.07	-0.5331425	0.1027244	4.05E-07
G	A	0.08	-0.4624606	0.09861426	4.21E-06
A	G	0.08	-0.4624606	0.09861426	4.21E-06
C	T	0.08	-0.4624606	0.09861426	4.21E-06
T	C	0.07	-0.5077845	0.1033829	1.52E-06
C	T	0.05	-0.5632628	0.1176843	2.71E-06
A	T	0.07	-0.5077845	0.1033829	1.52E-06
A	T	0.07	-0.4694748	0.1022191	6.48E-06

G	A	0.07	-0.4987339	0.1071058	4.88E-06
A	G	0.08	-0.4417897	0.09793839	9.29E-06
C	T	0.2	-0.2933076	0.06518995	9.77E-06
G	A	0.29	-0.2645192	0.05852027	8.92E-06
C	T	0.02	-0.8524642	0.1841789	5.53E-06
G	A	0.03	-0.6916902	0.1525965	8.44E-06
A	C	0.03	-0.7264827	0.1553112	4.44E-06
A	G	0.16	0.3353872	0.07354439	7.48E-06
CT	C	0.13	-0.3499774	0.07766482	9.48E-06
A	G	0.02	0.9259451	0.2001783	5.60E-06
A	G	0.04	-0.6264661	0.1353988	5.57E-06
G	A	0.16	0.3231099	0.07177638	9.67E-06
G	A	0.23	0.2927095	0.06372211	6.46E-06
T	A	0.49	0.2319631	0.04956267	4.39E-06
C	T	0.14	0.3721196	0.0782899	3.16E-06
T	C	0.15	0.3609433	0.07787297	5.37E-06
G	A	0.15	0.3609433	0.07787297	5.37E-06
T	C	0.14	0.3721196	0.0782899	3.16E-06
C	T	0.14	0.3721196	0.0782899	3.16E-06
G	A	0.14	0.3624855	0.07799215	5.07E-06
TG	T	0.14	0.3572238	0.07864808	8.11E-06
A	G	0.14	0.3736093	0.0786406	3.19E-06
T	G	0.14	0.3687232	0.07831001	3.86E-06
C	T	0.15	0.3609433	0.07787297	5.37E-06
A	G	0.15	0.3609433	0.07787297	5.37E-06
G	A	0.15	0.3609433	0.07787297	5.37E-06
A	G	0.15	0.3609433	0.07787297	5.37E-06
T	TG	0.14	0.3696624	0.07843262	3.78E-06
T	A	0.15	0.3609433	0.07787297	5.37E-06
C	T	0.14	0.3721196	0.0782899	3.16E-06
C	T	0.14	0.3721196	0.0782899	3.16E-06
T	C	0.14	0.3721196	0.0782899	3.16E-06
C	T	0.15	0.3609433	0.07787297	5.37E-06
T	C	0.14	0.3648076	0.07796671	4.41E-06
T	C	0.14	0.3800891	0.0789738	2.40E-06
A	G	0.14	0.3606141	0.07810788	5.82E-06
T	G	0.15	0.3609433	0.07787297	5.37E-06
T	C	0.14	0.3674885	0.07813887	3.96E-06
T	C	0.15	0.3609433	0.07787297	5.37E-06
T	C	0.14	0.362928	0.07793167	4.87E-06
T	C	0.15	0.3609433	0.07787297	5.37E-06
A	C	0.15	0.3609433	0.07787297	5.37E-06
G	A	0.14	0.3721196	0.0782899	3.16E-06
A	C	0.03	-0.7892942	0.166943	3.54E-06
T	G	0.49	0.2470581	0.05488816	9.70E-06
C	T	0.26	-0.3061893	0.06722576	7.67E-06
A	G	0.01	-1.224522	0.26967	8.15E-06
C	T	0.01	-1.142512	0.2300693	1.18E-06
GAGAC	G	0.08	-0.4583435	0.09805056	4.50E-06
C	CA	0.06	-0.53653	0.1143942	4.19E-06

G	A	0.06	-0.5182293	0.1122099	5.78E-06
A	G	0.05	-0.5643329	0.1227935	6.39E-06
A	G	0.04	-0.5929414	0.1296733	7.09E-06
C	T	0.04	-0.5929414	0.1296733	7.09E-06
A	G	0.04	-0.5929414	0.1296733	7.09E-06
A	AGATAGAT	0.05	-0.5743165	0.1241987	5.64E-06
G	C	0.36	0.2668306	0.05693129	4.26E-06
T	C	0.3	-0.2855273	0.06044576	3.61E-06
A	ATG	0.18	-0.3645911	0.07494137	1.89E-06
A	T	0.2	-0.307191	0.06681752	6.35E-06
G	A	0.2	-0.3037869	0.06601361	6.22E-06
A	T	0.01	-1.190175	0.2544932	4.46E-06
A	G	0.44	0.2471766	0.05441013	8.08E-06
A	G	0.4	0.2656293	0.05605119	3.36E-06
C	G	0.45	0.2474964	0.05492063	9.47E-06
A	G	0.4	0.2662724	0.05623012	3.42E-06
T	TA	0.07	-0.4481054	0.09778784	6.78E-06
A	AACACACAC	0.02	-0.9294214	0.183551	7.44E-07
C	T	0.22	-0.2985811	0.06367819	4.22E-06
C	CT	0.02	-0.8860595	0.1927319	6.35E-06
CACACACAT	C	0.02	0.844213	0.1795272	3.97E-06
G	GA	0.24	-0.2973693	0.05869515	7.34E-07
G	C	0.46	-0.2478687	0.05469775	8.49E-06
A	G	0.03	-0.7436353	0.1645954	9.01E-06
G	C	0.34	0.2580989	0.05592445	5.87E-06
C	T	0.17	-0.3478893	0.07173611	2.03E-06
A	G	0.37	-0.2683665	0.05569914	2.34E-06
C	T	0.06	-0.5776423	0.1171349	1.38E-06
C	A	0.06	-0.5776423	0.1171349	1.38E-06
TATC	T	0.06	-0.5872084	0.1177361	1.06E-06
G	C	0.04	-0.605457	0.1333828	8.19E-06
T	C	0.03	-0.7319372	0.1610171	7.96E-06
T	C	0.03	-0.7162489	0.1591624	9.72E-06
G	A	0.03	-0.7162489	0.1591624	9.72E-06
C	G	0.03	-0.7162489	0.1591624	9.72E-06
A	G	0.03	-0.7162489	0.1591624	9.72E-06
G	A	0.03	-0.7162489	0.1591624	9.72E-06
G	T	0.13	-0.3884886	0.08055981	2.30E-06
G	A	0.49	0.2439379	0.05293464	6.04E-06
T	C	0.04	-0.6107096	0.1350238	8.80E-06
G	A	0.04	-0.7256759	0.145368	1.04E-06
A	G	0.04	-0.7256759	0.145368	1.04E-06
C	T	0.05	-0.557029	0.1198128	5.03E-06
C	T	0.08	-0.4776681	0.1006055	3.23E-06
TA	T	0.08	-0.4776681	0.1006055	3.23E-06
C	T	0.08	-0.4776681	0.1006055	3.23E-06
C	T	0.08	-0.4776681	0.1006055	3.23E-06
T	TGA	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
G	T	0.08	-0.4696424	0.1004547	4.48E-06

A	T	0.08	-0.4877062	0.1002026	1.87E-06
G	A	0.08	-0.4776681	0.1006055	3.23E-06
A	C	0.08	-0.4877062	0.1002026	1.87E-06
G	C	0.08	-0.4807878	0.1009989	3.05E-06
G	C	0.08	-0.5159991	0.1017673	7.19E-07
G	A	0.08	-0.5280183	0.1017341	4.04E-07
C	CTCTT	0.08	-0.4877062	0.1002026	1.87E-06
A	T	0.08	-0.4791285	0.1011377	3.38E-06
A	C	0.08	-0.5035643	0.1018726	1.31E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
T	C	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4776681	0.1006055	3.23E-06
T	A	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
C	A	0.08	-0.4877062	0.1002026	1.87E-06
T	A	0.08	-0.4877062	0.1002026	1.87E-06
A	T	0.08	-0.5001368	0.1017022	1.48E-06
T	C	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4895324	0.1005247	1.84E-06
AG	A	0.08	-0.4877062	0.1002026	1.87E-06
G	A	0.08	-0.4877062	0.1002026	1.87E-06
T	C	0.08	-0.4877062	0.1002026	1.87E-06
G	A	0.08	-0.4877062	0.1002026	1.87E-06
G	T	0.08	-0.4877062	0.1002026	1.87E-06
C	T	0.08	-0.4877062	0.1002026	1.87E-06
GTCT	G	0.08	-0.4877062	0.1002026	1.87E-06
A	G	0.08	-0.4877062	0.1002026	1.87E-06
C	G	0.08	-0.4953954	0.1002655	1.33E-06
G	A	0.08	-0.4877062	0.1002026	1.87E-06
C	T	0.08	-0.4877062	0.1002026	1.87E-06
C	G	0.08	-0.4877062	0.1002026	1.87E-06
C	CT	0.49	0.2453718	0.05408715	8.29E-06
G	A	0.01	-1.057416	0.2332685	8.42E-06
T	TA	0.03	-0.7611644	0.1615936	3.82E-06
A	G	0.03	-0.7611644	0.1615936	3.82E-06
A	G	0.38	-0.260797	0.05750158	8.33E-06
A	G	0.01	-1.118196	0.2421681	5.80E-06
T	A	0.01	-1.118196	0.2421681	5.80E-06
G	A	0.01	-1.329999	0.2567236	4.23E-07
T	A	0.02	-1.070904	0.2295098	4.67E-06
GA	G	0.01	-1.20419	0.2438636	1.34E-06
C	CA	0.01	-1.304671	0.2612609	1.03E-06
A	G	0.02	-1.070904	0.2295098	4.67E-06
A	G	0.02	-1.070904	0.2295098	4.67E-06
A	G	0.02	-1.070904	0.2295098	4.67E-06
ATTCT	A	0.01	-1.197321	0.2324025	4.86E-07
A	G	0.02	-1.070904	0.2295098	4.67E-06
C	T	0.02	-1.070904	0.2295098	4.67E-06

CAT	C	0.02	-1.01052	0.2225953	8.18E-06
A	C	0.01	-1.346556	0.251847	1.88E-07
TACA	T	0.02	-1.01052	0.2225953	8.18E-06
ACAC	A	0.02	-1.01052	0.2225953	8.18E-06
T	TA	0.02	-1.01052	0.2225953	8.18E-06
AG	A	0.02	-1.01052	0.2225953	8.18E-06
AT	A	0.01	-1.2758	0.2611048	1.71E-06
G	A	0.01	-1.2758	0.2611048	1.71E-06
T	A	0.01	-1.168229	0.2577054	8.41E-06
G	A	0.08	-0.4408456	0.0967597	7.61E-06
CAAATAAAT	C	0.05	-0.5741121	0.1260957	7.71E-06
G	A	0.03	-0.7211774	0.1604238	9.92E-06
AT	A	0.03	-0.7505138	0.1622035	5.56E-06
T	TC	0.45	0.2544703	0.05410895	3.95E-06
TG	T	0.12	-0.3820119	0.08267987	5.72E-06
T	C	0.19	-0.3135505	0.06972078	9.85E-06
T	C	0.03	-0.7434781	0.1545457	2.42E-06
A	G	0.03	-0.7839982	0.1589614	1.38E-06
T	C	0.09	-0.4196444	0.09308616	9.39E-06
C	T	0.1	-0.4422001	0.09202111	2.48E-06
T	C	0.1	-0.4363634	0.09229458	3.53E-06
A	G	0.09	-0.4316091	0.09263187	4.81E-06
G	A	0.1	-0.4375054	0.09235628	3.39E-06
A	G	0.09	-0.4316091	0.09263187	4.81E-06
G	A	0.1	-0.4221223	0.09146452	5.86E-06
C	T	0.11	-0.4202915	0.08655435	1.97E-06
C	CCA	0.04	-0.6150345	0.136117	8.98E-06
GGTGTGT	G	0.05	-0.5946506	0.1255987	3.43E-06
G	A	0.24	-0.2768091	0.05947038	4.91E-06
T	C	0.16	0.3366949	0.07269364	5.44E-06
C	A	0.17	0.3373542	0.07216206	4.48E-06
C	G	0.03	-0.8653734	0.1740701	1.15E-06
G	A	0.03	-0.8084357	0.1758161	6.32E-06
G	A	0.02	-0.8642602	0.1802439	2.60E-06
A	G	0.04	-0.6440035	0.135614	3.21E-06
G	A	0.16	0.3542068	0.07237312	1.65E-06
G	A	0.22	0.3072733	0.06587607	4.70E-06
G	A	0.22	0.3158607	0.06579941	2.54E-06
C	A	0.23	0.3108068	0.06584632	3.66E-06
G	A	0.22	0.3029648	0.0667945	8.32E-06
G	A	0.23	0.3001893	0.06439622	4.76E-06
C	T	0.14	0.3704374	0.07894141	4.14E-06
T	C	0.14	0.3715391	0.07853964	3.49E-06
G	A	0.14	0.3715391	0.07853964	3.49E-06
T	C	0.14	0.3704374	0.07894141	4.14E-06
C	T	0.14	0.3704374	0.07894141	4.14E-06
G	A	0.14	0.3712901	0.07868232	3.68E-06
TG	T	0.14	0.3585552	0.07929397	8.84E-06
A	G	0.14	0.3630394	0.07925854	6.83E-06
T	G	0.14	0.3732581	0.07897244	3.56E-06

C	T	0.14	0.3715391	0.07853964	3.49E-06
A	G	0.14	0.3715391	0.07853964	3.49E-06
G	A	0.14	0.3715391	0.07853964	3.49E-06
A	G	0.14	0.3715391	0.07853964	3.49E-06
T	TG	0.14	0.3687767	0.07908413	4.73E-06
T	A	0.14	0.3715391	0.07853964	3.49E-06
C	T	0.14	0.3704374	0.07894141	4.14E-06
C	T	0.14	0.3704374	0.07894141	4.14E-06
T	C	0.14	0.3704374	0.07894141	4.14E-06
C	T	0.14	0.3715391	0.07853964	3.49E-06
T	C	0.14	0.3721517	0.07866404	3.48E-06
T	C	0.14	0.3864808	0.07953623	1.94E-06
A	G	0.14	0.3677778	0.07880296	4.65E-06
T	G	0.14	0.3715391	0.07853964	3.49E-06
T	C	0.14	0.3801446	0.07876207	2.25E-06
T	C	0.14	0.3715391	0.07853964	3.49E-06
T	C	0.14	0.3901172	0.07851299	1.16E-06
T	C	0.14	0.3715391	0.07853964	3.49E-06
A	C	0.14	0.3715391	0.07853964	3.49E-06
G	A	0.14	0.3704374	0.07894141	4.14E-06
C	A	0.06	0.529109	0.1132388	4.53E-06
C	T	0.06	0.5635812	0.1164386	2.11E-06
C	T	0.06	0.5635812	0.1164386	2.11E-06
A	G	0.06	0.5417713	0.1156648	4.31E-06
G	A	0.06	0.5265541	0.1165372	8.98E-06
T	A	0.06	0.5417713	0.1156648	4.31E-06
A	G	0.06	0.5325682	0.1166158	7.26E-06
C	A	0.06	0.5417713	0.1156648	4.31E-06
G	A	0.06	0.5417713	0.1156648	4.31E-06
C	G	0.06	0.5417713	0.1156648	4.31E-06
C	T	0.06	0.5417713	0.1156648	4.31E-06
G	C	0.06	0.5417713	0.1156648	4.31E-06
A	T	0.06	0.5417713	0.1156648	4.31E-06
G	A	0.06	0.5417713	0.1156648	4.31E-06
A	G	0.06	0.5417713	0.1156648	4.31E-06
C	A	0.06	0.5417713	0.1156648	4.31E-06
T	A	0.06	0.5417713	0.1156648	4.31E-06
G	A	0.06	0.5417713	0.1156648	4.31E-06
C	A	0.06	0.5417713	0.1156648	4.31E-06
C	T	0.01	-1.166556	0.2591182	9.64E-06
T	G	0.03	-0.7501892	0.1661037	9.06E-06
T	G	0.03	-0.7501892	0.1661037	9.06E-06
A	G	0.03	-0.7501892	0.1661037	9.06E-06
C	T	0.03	-0.7501892	0.1661037	9.06E-06
G	C	0.01	-1.03473	0.2241361	5.82E-06
A	C	0.15	0.3547398	0.07790357	7.69E-06
T	TTC	0.36	-0.2690091	0.05622653	2.73E-06
G	C	0.36	0.3400217	0.05704899	7.96E-09
A	AG	0.2	0.3072	0.06703459	6.76E-06
A	G	0.03	-0.7119805	0.157451	8.84E-06

C	T	0.03	-0.7119805	0.157451	8.84E-06
G	A	0.03	-0.7119805	0.157451	8.84E-06
G	T	0.09	-0.4319561	0.09168586	3.81E-06
T	TCACACACACA	0.02	-0.8105495	0.1775434	7.30E-06
C	T	0.15	0.3723738	0.07623378	1.72E-06
T	C	0.17	0.3231147	0.07153111	9.03E-06
T	TGTGTGTGTGA	0.14	0.3739636	0.08232477	8.08E-06
CA	C	0.17	0.3263776	0.07212415	8.71E-06
G	T	0.17	0.3266808	0.07225628	8.87E-06
C	CT	0.02	-0.8883365	0.1892647	4.12E-06
G	GA	0.24	-0.2982764	0.05884882	7.25E-07
C	A	0.21	-0.2984518	0.06499283	6.49E-06
G	A	0.21	-0.2991645	0.06447953	5.25E-06
T	C	0.16	-0.3649804	0.07703332	3.37E-06
C	G	0.15	-0.3571671	0.07838854	7.60E-06
C	T	0.16	-0.3823857	0.07714963	1.23E-06
C	A	0.16	-0.3823857	0.07714963	1.23E-06
C	G	0.16	-0.3823857	0.07714963	1.23E-06
G	A	0.16	-0.3610675	0.0775629	4.90E-06
A	C	0.16	-0.3587567	0.07768772	5.79E-06
C	T	0.16	-0.3823857	0.07714963	1.23E-06
C	T	0.16	-0.3823857	0.07714963	1.23E-06
TTGTTCCCTCTC	T	0.14	-0.3909527	0.08175504	2.76E-06
A	G	0.15	-0.3819771	0.07782133	1.54E-06
C	T	0.16	-0.3837641	0.07716976	1.14E-06
T	G	0.16	-0.3837641	0.07716976	1.14E-06
G	A	0.16	-0.3823857	0.07714963	1.23E-06
G	A	0.16	-0.3773782	0.07723629	1.71E-06
T	C	0.15	-0.3623777	0.07745272	4.41E-06
A	AT	0.16	-0.3603207	0.07628612	3.61E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
C	T	0.15	-0.3623777	0.07745272	4.41E-06
A	G	0.15	-0.3567997	0.07747633	6.12E-06
G	T	0.15	-0.3709241	0.07805921	3.17E-06
C	T	0.15	-0.3577731	0.07796226	6.58E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
G	T	0.15	-0.3623777	0.07745272	4.41E-06
C	T	0.15	-0.3623777	0.07745272	4.41E-06
C	T	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
A	C	0.15	-0.3623777	0.07745272	4.41E-06
A	G	0.15	-0.3623777	0.07745272	4.41E-06
A	G	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
C	T	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
C	T	0.15	-0.3634261	0.07750482	4.21E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06

G	A	0.15	-0.3623777	0.07745272	4.41E-06
G	A	0.15	-0.3623777	0.07745272	4.41E-06
CA	C	0.16	-0.3538367	0.07693357	6.29E-06
A	G	0.15	-0.3544378	0.07738343	6.84E-06
C	T	0.16	-0.3445105	0.07634534	9.21E-06
C	T	0.16	-0.3586988	0.07673118	4.49E-06
C	T	0.16	-0.3586988	0.07673118	4.49E-06
G	C	0.16	-0.3586988	0.07673118	4.49E-06
A	C	0.05	-0.5977269	0.1251802	2.85E-06
G	T	0.05	-0.5977269	0.1251802	2.85E-06
G	C	0.05	-0.6027246	0.1208217	1.06E-06
C	A	0.05	-0.5977269	0.1251802	2.85E-06
G	A	0.09	-0.5066904	0.09744482	3.86E-07
T	TA	0.09	-0.4687615	0.09506948	1.39E-06
G	A	0.09	-0.4950601	0.09889547	9.76E-07
C	T	0.1	-0.4410299	0.09419233	4.34E-06
G	A	0.09	-0.468446	0.09852533	3.13E-06
G	A	0.09	-0.4385159	0.09707413	9.02E-06
C	T	0.09	-0.410768	0.0911757	9.51E-06
TACACACAC	T	0.02	0.8667925	0.1905117	7.77E-06
T	G	0.03	-0.6509181	0.1443637	9.30E-06
T	C	0.04	-0.6433697	0.143137	9.89E-06
TTA	T	0.38	-0.2449571	0.05437857	9.47E-06
G	A	0.02	0.9138213	0.2021134	8.80E-06
C	T	0.11	0.4154433	0.09119046	7.56E-06
C	A	0.22	-0.2799728	0.06194785	8.87E-06
A	G	0.29	-0.2849382	0.06135636	5.11E-06
G	C	0.02	0.7818747	0.1727028	8.58E-06
T	C	0.02	0.7818747	0.1727028	8.58E-06
T	C	0.02	0.7818747	0.1727028	8.58E-06
T	C	0.02	0.7818747	0.1727028	8.58E-06
C	T	0.02	0.7818747	0.1727028	8.58E-06
G	A	0.02	0.7818747	0.1727028	8.58E-06
C	CA	0.02	1.010506	0.2028132	1.08E-06
T	C	0.02	0.7818747	0.1727028	8.58E-06
C	T	0.02	0.7818747	0.1727028	8.58E-06
G	A	0.02	1.021594	0.2057805	1.17E-06
T	C	0.02	0.7818747	0.1727028	8.58E-06
G	A	0.02	0.7818747	0.1727028	8.58E-06
G	A	0.02	0.7818747	0.1727028	8.58E-06
G	A	0.02	0.7818747	0.1727028	8.58E-06
TCA	T	0.21	-0.3195735	0.07092852	9.43E-06
C	T	0.46	0.2503833	0.05383318	4.95E-06
G	A	0.46	0.2438057	0.05385551	8.58E-06
T	C	0.47	0.2560639	0.05381649	3.05E-06
T	C	0.47	0.2560639	0.05381649	3.05E-06
A	G	0.42	0.2491897	0.05422526	6.35E-06
T	A	0.03	0.690501	0.1502287	6.32E-06
G	A	0.02	0.7554791	0.1678497	9.62E-06
CATCTT	C	0.19	-0.3284979	0.07193896	7.22E-06

ACC	A	0.03	0.5941268	0.1309948	8.27E-06
G	C	0.37	0.2522195	0.05443651	5.36E-06
T	A	0.03	0.7627121	0.1680462	8.16E-06
G	GT	0.02	0.8256425	0.1753116	3.81E-06
G	C	0.09	0.4344602	0.09365538	5.23E-06
G	A	0.09	0.4256538	0.09380064	8.19E-06
G	A	0.09	0.4379125	0.0940532	4.84E-06
T	C	0.05	-0.5460962	0.1215067	9.90E-06
A	G	0.08	-0.4741599	0.09950758	2.96E-06
A	G	0.06	-0.5257566	0.1164275	9.02E-06
C	G	0.08	-0.484074	0.09982951	2.01E-06
C	A	0.08	-0.484074	0.09982951	2.01E-06
G	A	0.07	-0.4619385	0.101779	8.16E-06
G	GT	0.07	-0.4965456	0.1023561	1.99E-06
C	G	0.07	-0.4719212	0.1005241	4.07E-06
T	G	0.08	-0.4741599	0.09950758	2.96E-06
C	T	0.08	-0.4741599	0.09950758	2.96E-06
T	C	0.08	-0.4741599	0.09950758	2.96E-06
C	T	0.06	-0.5247178	0.1157089	8.30E-06
GAAT	G	0.08	-0.4717032	0.1002086	3.85E-06
A	G	0.07	-0.4711333	0.1013325	4.99E-06
CA	C	0.07	-0.4783346	0.1039696	6.20E-06
A	G	0.05	-0.5532731	0.1202568	6.20E-06
C	T	0.07	-0.4711333	0.1013325	4.99E-06
C	A	0.05	-0.5887547	0.1207589	1.78E-06
C	T	0.05	-0.5865709	0.1255478	4.51E-06
C	A	0.05	-0.6023434	0.1259976	2.76E-06
G	GGT	0.04	-0.6809662	0.1471115	5.47E-06
A	G	0.38	0.2514379	0.05516362	7.49E-06
C	CCACACACA	0.08	-0.4528954	0.09886385	6.77E-06
G	T	0.02	-0.9324907	0.2072252	9.67E-06
C	T	0.03	0.7632343	0.1671156	7.20E-06
T	G	0.36	0.268965	0.0555715	2.10E-06
T	G	0.36	0.2663106	0.05574793	2.80E-06
C	T	0.04	-0.6470464	0.1317172	1.50E-06
T	TACAC	0.03	0.6996246	0.1555019	9.70E-06
A	T	0.45	-0.2456064	0.05310125	5.56E-06
T	TACAC	0.25	-0.3213717	0.06890941	4.68E-06
T	TTTC	0.39	0.2525883	0.05540396	7.46E-06
CGAAG	C	0.39	-0.2606747	0.05614027	5.13E-06
G	A	0.01	1.121387	0.2470046	8.11E-06
G	T	0.03	0.7076559	0.1497867	3.56E-06
T	G	0.04	-0.6059372	0.132188	6.68E-06
T	G	0.04	-0.6590249	0.142974	5.96E-06
T	C	0.04	-0.6817391	0.1428888	2.88E-06
C	T	0.01	1.033999	0.2279234	8.23E-06
T	G	0.24	0.2967199	0.06334932	4.27E-06
A	G	0.24	0.2867849	0.06365698	9.44E-06
C	T	0.24	0.2867849	0.06365698	9.44E-06
C	T	0.24	0.2867849	0.06365698	9.44E-06

G	A	0.24	0.2867849	0.06365698	9.44E-06
G	A	0.02	0.966204	0.2007664	2.38E-06
C	G	0.02	0.8418976	0.1828964	6.13E-06
A	G	0.29	-0.2830654	0.06103179	5.25E-06
TCA	T	0.21	-0.3358177	0.07050681	2.99E-06
A	G	0.02	0.8475967	0.1843992	6.31E-06
T	C	0.02	0.8475967	0.1843992	6.31E-06
A	G	0.02	0.8475967	0.1843992	6.31E-06
ATTCT	A	0.47	0.2518564	0.05374367	4.23E-06
A	T	0.48	0.2469389	0.05354836	5.91E-06
A	T	0.41	-0.2472841	0.05375505	6.21E-06
G	A	0.42	-0.2417757	0.053435	8.67E-06
A	G	0.42	-0.2417757	0.053435	8.67E-06
C	G	0.42	-0.2417757	0.053435	8.67E-06
G	A	0.42	-0.2438087	0.05359858	7.80E-06
G	A	0.42	-0.2417757	0.053435	8.67E-06
C	T	0.42	-0.2415758	0.05365305	9.55E-06
G	GT	0.41	-0.2439758	0.05352416	7.48E-06
T	C	0.44	-0.2504692	0.05211882	2.45E-06
G	A	0.42	-0.2440109	0.05331494	6.89E-06
C	T	0.42	-0.2423577	0.05341771	8.21E-06
C	A	0.42	-0.2423577	0.05341771	8.21E-06
C	A	0.43	-0.2414018	0.05316419	8.08E-06
G	C	0.42	-0.2406277	0.05326929	8.96E-06
A	G	0.43	-0.2394502	0.05304694	9.09E-06
C	T	0.47	0.2600522	0.05353044	1.93E-06
G	A	0.47	0.2543212	0.05355314	3.18E-06
T	C	0.47	0.2666886	0.05350623	1.07E-06
T	C	0.42	-0.2440703	0.05348721	7.32E-06
T	C	0.47	0.2666886	0.05350623	1.07E-06
T	A	0.44	-0.2455193	0.05395653	7.75E-06
T	C	0.46	0.2396602	0.05323099	9.56E-06
A	G	0.08	-0.4680383	0.09981088	4.17E-06
A	G	0.06	-0.5320824	0.1172417	8.16E-06
C	G	0.07	-0.476328	0.1001498	3.08E-06
C	A	0.07	-0.476328	0.1001498	3.08E-06
G	A	0.07	-0.4613392	0.102095	8.90E-06
G	GT	0.07	-0.4665523	0.1025582	7.79E-06
C	G	0.07	-0.4712904	0.100834	4.47E-06
T	G	0.08	-0.4680383	0.09981088	4.17E-06
C	T	0.08	-0.4680383	0.09981088	4.17E-06
T	C	0.08	-0.4680383	0.09981088	4.17E-06
C	T	0.06	-0.5305081	0.1165194	7.66E-06
GAAT	G	0.08	-0.4609149	0.1005938	6.74E-06
T	C	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.07	-0.4706953	0.1016404	5.42E-06
C	G	0.05	-0.5424516	0.1205808	9.72E-06
C	A	0.05	-0.5424516	0.1205808	9.72E-06
G	A	0.05	-0.5424516	0.1205808	9.72E-06
T	G	0.05	-0.5424516	0.1205808	9.72E-06

G	A	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5722437	0.1211425	3.57E-06
C	T	0.07	-0.4706953	0.1016404	5.42E-06
T	C	0.05	-0.5424516	0.1205808	9.72E-06
G	C	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
A	AAC	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
G	GT	0.05	-0.5424516	0.1205808	9.72E-06
G	A	0.05	-0.5424516	0.1205808	9.72E-06
C	A	0.05	-0.5424516	0.1205808	9.72E-06
G	T	0.05	-0.5424516	0.1205808	9.72E-06
T	C	0.05	-0.5424516	0.1205808	9.72E-06
T	G	0.05	-0.5424516	0.1205808	9.72E-06
T	C	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
T	C	0.05	-0.5424516	0.1205808	9.72E-06
G	T	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5424516	0.1205808	9.72E-06
G	A	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5424516	0.1205808	9.72E-06
C	A	0.05	-0.5722437	0.1211425	3.57E-06
TA	T	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5424516	0.1205808	9.72E-06
CT	C	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5869377	0.1268124	5.48E-06
C	A	0.05	-0.5980015	0.1264632	3.49E-06
A	G	0.05	-0.5525269	0.1222078	8.80E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
GA	G	0.05	-0.5424516	0.1205808	9.72E-06
A	AC	0.05	-0.5424516	0.1205808	9.72E-06
C	T	0.05	-0.5424516	0.1205808	9.72E-06
A	G	0.05	-0.5424516	0.1205808	9.72E-06
C	G	0.26	0.2713463	0.05862035	5.47E-06
G	T	0.14	0.3530664	0.07770128	7.97E-06
G	A	0.43	-0.2505429	0.05325916	3.90E-06
A	T	0.45	-0.2491262	0.05272799	3.55E-06
C	T	0.43	-0.2401462	0.05316704	8.97E-06
G	A	0.01	1.017543	0.2108404	2.23E-06
AG	A	0.02	0.4077656	0.08556905	2.93E-06
T	C	0.03	0.3816577	0.08452334	8.97E-06
TC	T	0.07	0.2295851	0.05037653	7.46E-06
A	G	0.18	0.1575782	0.03373077	4.48E-06
T	G	0.4	-0.1213889	0.0270094	9.84E-06
CAG	C	0.15	-0.1733736	0.03647809	3.10E-06
G	T	0.16	-0.170533	0.03646248	4.38E-06

G	A	0.14	-0.1765551	0.03790216	4.76E-06
C	T	0.13	-0.1800445	0.03931546	6.77E-06
GGT	G	0.13	0.2058072	0.0400983	5.22E-07
A	G	0.02	0.4379724	0.09575404	6.93E-06
C	G	0.02	0.4379724	0.09575404	6.93E-06
T	C	0.02	0.4379724	0.09575404	6.93E-06
A	G	0.02	0.4379724	0.09575404	6.93E-06
T	C	0.02	0.4379724	0.09575404	6.93E-06
C	T	0.02	0.4379724	0.09575404	6.93E-06
T	C	0.02	0.4379724	0.09575404	6.93E-06
A	T	0.02	-0.4177777	0.09090392	6.29E-06
A	AAAAAG	0.04	0.3268536	0.07081851	5.77E-06
T	C	0.04	-0.3113336	0.06595691	3.60E-06
A	G	0.19	0.1545091	0.0337013	6.61E-06
C	T	0.19	0.1540817	0.03368781	6.94E-06
G	A	0.19	0.1566394	0.03370699	5.00E-06
C	G	0.19	0.1519134	0.03370237	9.29E-06
G	C	0.19	0.1542578	0.03373139	6.96E-06
G	C	0.19	0.1542578	0.03373139	6.96E-06
G	A	0.19	0.1542578	0.03373139	6.96E-06
G	A	0.19	0.1542578	0.03373139	6.96E-06
C	T	0.19	0.1542578	0.03373139	6.96E-06
T	C	0.18	0.1613606	0.03391183	3.03E-06
T	C	0.19	0.1542578	0.03373139	6.96E-06
C	T	0.19	0.1578959	0.03368006	4.16E-06
T	C	0.19	0.1578959	0.03368006	4.16E-06
C	T	0.19	0.156039	0.03370029	5.40E-06
T	G	0.2	0.1470203	0.03264917	9.47E-06
G	A	0.19	0.1522113	0.03332453	7.13E-06
T	C	0.19	0.1575651	0.03345559	3.77E-06
C	G	0.19	0.1575651	0.03345559	3.77E-06
C	T	0.19	0.1597093	0.03326273	2.48E-06
A	G	0.19	0.1653446	0.03279858	8.08E-07
A	G	0.05	-0.2930181	0.06245158	4.09E-06
T	TA	0.23	0.1614066	0.03273246	1.36E-06
C	T	0.07	-0.2637188	0.0499832	2.59E-07
G	T	0.07	-0.2656465	0.04979285	1.94E-07
T	C	0.21	0.1526235	0.03332558	6.76E-06
A	G	0.08	-0.2253802	0.04895107	6.06E-06
C	G	0.08	-0.2318349	0.04909042	3.56E-06
C	A	0.08	-0.2318349	0.04909042	3.56E-06
G	GT	0.07	-0.2428254	0.0503723	2.27E-06
C	G	0.07	-0.2241785	0.04944169	8.26E-06
T	G	0.08	-0.2253802	0.04895107	6.06E-06
C	T	0.08	-0.2253802	0.04895107	6.06E-06
T	C	0.08	-0.2253802	0.04895107	6.06E-06
A	G	0.07	-0.2288013	0.04979983	6.33E-06
CA	C	0.07	-0.2326628	0.05108937	7.57E-06
C	T	0.07	-0.2288013	0.04979983	6.33E-06

A	C	0.02	-0.4636605	0.1031213	9.76E-06
G	A	0.29	0.1306975	0.02785028	4.07E-06
G	A	0.3	0.125842	0.02778916	8.47E-06
C	G	0.28	0.1284402	0.02810917	7.08E-06
TA	T	0.29	0.1329939	0.02784201	2.78E-06
AAAT	A	0.24	0.1458127	0.03214604	8.20E-06
T	G	0.3	0.1259387	0.02770745	7.87E-06
T	C	0.3	0.1259387	0.02770745	7.87E-06
T	C	0.44	0.1157049	0.02437347	3.18E-06
G	A	0.29	0.1327126	0.027747	2.70E-06
G	C	0.3	0.1259387	0.02770745	7.87E-06
G	A	0.3	0.1259387	0.02770745	7.87E-06
CGA	C	0.3	0.1295474	0.02775356	4.56E-06
C	A	0.29	0.1348424	0.02781864	2.01E-06
G	A	0.29	0.1271626	0.02772418	6.55E-06
A	C	0.27	0.1291364	0.0283758	7.68E-06
G	C	0.07	-0.227706	0.05068568	9.92E-06
GAAATCTCTGTGTGC	T	0.02	-0.4876234	0.1020287	2.75E-06
G	T	0.36	-0.1322378	0.02789021	3.27E-06
GGTT	G	0.38	-0.1268467	0.02746315	5.68E-06
C	T	0.46	0.1334868	0.02712625	1.43E-06
G	T	0.47	0.1238171	0.0274965	9.48E-06
T	A	0.48	0.1395985	0.02737053	6.09E-07
G	A	0.48	0.1365956	0.0274751	1.12E-06
T	C	0.48	0.1365956	0.0274751	1.12E-06
GA	G	0.48	0.1370272	0.02750993	1.08E-06
T	C	0.48	0.1405191	0.02750968	5.87E-07
G	T	0.48	0.1373795	0.02744624	9.58E-07
G	A	0.48	0.1379126	0.02754215	9.50E-07
C	T	0.47	0.131613	0.02747933	2.62E-06
T	C	0.44	0.1273449	0.0276995	6.25E-06
A	G	0.44	0.1282763	0.02752003	4.70E-06
G	A	0.44	0.1251452	0.02764922	8.56E-06
G	A	0.43	0.1269814	0.02766693	6.47E-06
G	C	0.06	-0.2586087	0.05737384	9.29E-06
C	A	0.1	-0.2082342	0.04380889	3.10E-06
A	G	0.08	0.2255422	0.048349	4.62E-06
A	C	0.35	0.131097	0.02852893	6.31E-06
C	T	0.35	-0.1253787	0.02751084	7.46E-06
T	G	0.22	-0.1530329	0.03259664	4.04E-06
CTT	C	0.17	-0.1539291	0.03400381	8.54E-06
A	T	0.05	-0.285582	0.06234562	6.73E-06
C	G	0.05	-0.285582	0.06234562	6.73E-06
T	TCACACACA	0.03	-0.4012076	0.08273018	1.99E-06
C	T	0.13	0.1748694	0.03875488	9.10E-06
T	TTTC	0.39	0.136195	0.02718397	9.37E-07
T	C	0.37	-0.1219121	0.02669923	7.18E-06
A	T	0.38	-0.1198309	0.02665241	9.77E-06
C	G	0.02	-0.3380552	0.07441097	7.95E-06
G	C	0.02	-0.3380552	0.07441097	7.95E-06

G	A	0.01	-0.4306598	0.09027119	2.86E-06
C	CA	0.03	-0.282172	0.06187411	7.36E-06
A	G	0.01	-0.4655531	0.1028013	8.47E-06
C	T	0.02	-0.4024362	0.08148252	1.31E-06
C	T	0.01	-0.5195882	0.1067261	1.82E-06
T	A	0.01	-0.5195882	0.1067261	1.82E-06
G	A	0.04	-0.2404329	0.05317878	8.75E-06
G	C	0.04	-0.2404329	0.05317878	8.75E-06
G	A	0.01	-0.4902464	0.1023777	2.63E-06
CAATA	C	0.35	0.1033061	0.02249149	6.37E-06
A	G	0.02	-0.3766751	0.07961024	3.42E-06
C	A	0.01	-0.5060591	0.1063253	3.01E-06
A	G	0.05	-0.2341601	0.0479383	1.69E-06
G	A	0.03	-0.3132949	0.06880172	7.59E-06
T	C	0.03	-0.345124	0.0685636	8.38E-07
A	C	0.02	-0.3745569	0.08268876	8.43E-06
C	CATCTATCT	0.02	-0.3967416	0.08237856	2.32E-06
G	A	0.02	-0.3577506	0.07553773	3.35E-06
T	C	0.01	-0.4505816	0.09963293	8.70E-06
A	G	0.01	-0.4505816	0.09963293	8.70E-06
C	T	0.01	-0.4505816	0.09963293	8.70E-06
C	CT	0.03	-0.2956576	0.05560328	2.11E-07
C	T	0.03	-0.3047692	0.0678345	9.91E-06
A	G	0.02	-0.3805122	0.08132193	4.33E-06
G	A	0.02	-0.3345175	0.0735219	7.71E-06
A	T	0.02	-0.3645008	0.07832961	4.86E-06
CTCTATCTA	C	0.02	-0.3639357	0.07848872	5.24E-06
CA	C	0.02	-0.4094318	0.08112394	7.86E-07
G	A	0.03	-0.3031597	0.06518987	4.93E-06
G	A	0.03	-0.3031597	0.06518987	4.93E-06
G	A	0.01	-0.4799497	0.1025928	4.35E-06
A	AT	0.01	-0.5269192	0.1054735	1.00E-06
C	G	0.42	-0.0980983	0.02144741	6.93E-06
C	T	0.03	-0.2873463	0.0607871	3.49E-06
C	T	0.14	-0.1435165	0.03071005	4.45E-06
C	CTGTG	0.01	-0.4512115	0.0998079	8.76E-06
G	A	0.01	-0.4701921	0.1026335	6.71E-06
C	G	0.07	-0.1930102	0.04164125	5.28E-06
A	G	0.07	-0.1930102	0.04164125	5.28E-06
A	AAAG	0.06	-0.1928783	0.04225911	7.24E-06
G	C	0.04	-0.2097385	0.04492152	4.54E-06
G	C	0.04	-0.2150645	0.04716427	7.38E-06
T	C	0.4	0.09961138	0.02159643	5.84E-06
A	G	0.4	0.09880715	0.02157979	6.79E-06
T	C	0.02	-0.3524521	0.07103609	1.18E-06
G	A	0.02	-0.31968	0.06927648	5.79E-06
T	C	0.02	-0.31968	0.06927648	5.79E-06
G	A	0.02	-0.31968	0.06927648	5.79E-06
C	A	0.02	-0.3524521	0.07103609	1.18E-06
T	C	0.1	-0.1577273	0.03473639	8.03E-06

G	A	0.02	-0.3959332	0.08778418	9.18E-06
TG	T	0.02	-0.3959332	0.08778418	9.18E-06
T	C	0.02	-0.3247547	0.07002002	5.21E-06
G	T	0.3	-0.1043348	0.02292364	7.66E-06
A	C	0.3	-0.10673	0.023065	5.47E-06
T	C	0.3	-0.1038939	0.02299822	8.89E-06
C	A	0.3	-0.1036836	0.02299514	9.23E-06
G	A	0.29	-0.1097771	0.02307523	3.04E-06
T	C	0.28	-0.1116272	0.02335008	2.73E-06
A	AACACACACACAC	0.03	-0.2528028	0.0531247	3.02E-06
G	A	0.02	-0.384339	0.08404076	6.95E-06
C	T	0.02	-0.3930368	0.08385288	4.18E-06
C	G	0.03	-0.3114113	0.06831757	7.43E-06
T	A	0.09	-0.1652373	0.03674418	9.73E-06
T	C	0.09	-0.1705925	0.03661953	4.75E-06
C	T	0.09	-0.1769883	0.03676558	2.34E-06
C	A	0.09	-0.1687732	0.03713112	7.87E-06
T	C	0.09	-0.1705925	0.03661953	4.75E-06
A	G	0.09	-0.1649857	0.03645607	8.58E-06
G	A	0.09	-0.1652429	0.03644941	8.29E-06
T	C	0.09	-0.1649857	0.03645607	8.58E-06
A	G	0.09	-0.1649857	0.03645607	8.58E-06
T	C	0.09	-0.1728011	0.03690684	4.28E-06
T	C	0.09	-0.1649857	0.03645607	8.58E-06
C	G	0.09	-0.1649857	0.03645607	8.58E-06
A	G	0.09	-0.1649857	0.03645607	8.58E-06
T	C	0.09	-0.1649857	0.03645607	8.58E-06
C	T	0.09	-0.1683036	0.03663801	6.35E-06
T	C	0.09	-0.1649857	0.03645607	8.58E-06
A	C	0.09	-0.1683036	0.03663801	6.35E-06
C	G	0.09	-0.1649857	0.03645607	8.58E-06
T	C	0.09	-0.1649857	0.03645607	8.58E-06
A	C	0.09	-0.1674314	0.03625797	5.71E-06
C	A	0.09	-0.1654319	0.03655901	8.60E-06
G	A	0.09	-0.1654319	0.03655901	8.60E-06
G	A	0.09	-0.1672811	0.03694379	8.49E-06
C	T	0.09	-0.1705244	0.03672756	5.10E-06
G	A	0.09	-0.1705244	0.03672756	5.10E-06
C	T	0.09	-0.1671489	0.03654272	6.93E-06
A	G	0.09	-0.1671489	0.03654272	6.93E-06
T	C	0.09	-0.1705244	0.03672756	5.10E-06
A	G	0.09	-0.1705244	0.03672756	5.10E-06
T	C	0.09	-0.1671489	0.03654272	6.93E-06
C	T	0.1	-0.1577745	0.03492886	8.91E-06
GTTGT	G	0.02	-0.4185351	0.08582854	1.76E-06
C	T	0.02	-0.4185351	0.08582854	1.76E-06
T	C	0.37	0.09867897	0.02161404	7.20E-06
T	TATACATAC	0.09	-0.1753021	0.039014	9.89E-06
G	A	0.02	-0.4344193	0.084081	4.42E-07
TACTG	T	0.5	0.09416244	0.02024632	4.92E-06

T	C	0.49	-0.094889	0.02027747	4.33E-06
T	C	0.49	-0.0938143	0.02025481	5.36E-06
G	A	0.49	-0.094889	0.02027747	4.33E-06
G	A	0.49	-0.0946117	0.02030446	4.73E-06
G	A	0.5	-0.0914442	0.02029631	9.37E-06
T	C	0.5	-0.0914442	0.02029631	9.37E-06
G	A	0.49	-0.0946117	0.02030446	4.73E-06
CTG	C	0.5	-0.0964469	0.02023805	2.93E-06
G	A	0.49	-0.0946117	0.02030446	4.73E-06
CCA	C	0.5	-0.0966107	0.02029414	3.00E-06
C	G	0.5	-0.0940363	0.02033062	5.52E-06
TA	T	0.48	0.09490522	0.01988256	2.83E-06
G	A	0.5	-0.091235	0.02027317	9.59E-06
C	G	0.01	-0.4008867	0.08745888	6.64E-06
GAGAAAGAAAGAA	G	0.09	-0.167859	0.03523903	2.96E-06
C	T	0.23	-0.135543	0.02448833	7.07E-08
C	T	0.22	-0.1408444	0.02457714	2.58E-08
G	A	0.23	-0.1380857	0.02449628	4.19E-08
T	TAA	0.2	-0.1332923	0.02592827	5.01E-07
T	C	0.2	-0.1210431	0.02556985	3.38E-06
T	G	0.2	-0.1191002	0.02580044	5.75E-06
C	T	0.2	-0.116729	0.02575511	8.33E-06
C	T	0.01	-0.5156863	0.1057573	1.76E-06
C	T	0.05	-0.2281917	0.04953181	5.99E-06
C	G	0.05	-0.2345211	0.05081133	5.76E-06
C	T	0.05	-0.2362704	0.04918354	2.46E-06
C	T	0.05	-0.2345211	0.05081133	5.76E-06
A	C	0.04	-0.2544342	0.05172667	1.44E-06
T	G	0.05	-0.2345211	0.05081133	5.76E-06
G	C	0.05	-0.2345211	0.05081133	5.76E-06
G	C	0.05	-0.2441767	0.05039765	2.03E-06
C	T	0.05	-0.2441767	0.05039765	2.03E-06
TTCTTTCTTTCTTTCTT	A	0.02	-0.4015524	0.08796604	7.22E-06
C	T	0.42	0.09827989	0.02109902	4.76E-06
A	G	0.02	-0.4396869	0.08240431	1.93E-07
G	A	0.02	-0.4163043	0.08098441	5.02E-07
G	A	0.06	-0.2138976	0.04711954	8.07E-06
A	AT	0.07	-0.2012498	0.03796613	2.29E-07
T	G	0.01	-0.4787755	0.1026706	4.65E-06
T	C	0.02	-0.3963477	0.07928395	9.88E-07
C	T	0.02	-0.367142	0.07322195	9.20E-07
C	A	0.02	-0.350743	0.0722717	1.96E-06
C	T	0.02	-0.3528788	0.07447689	3.32E-06
G	A	0.02	-0.350743	0.0722717	1.96E-06
C	G	0.02	-0.350743	0.0722717	1.96E-06
G	A	0.02	-0.350743	0.0722717	1.96E-06
C	T	0.02	-0.3571483	0.07690544	5.07E-06
C	T	0.02	-0.3543513	0.07444631	3.00E-06
A	G	0.02	-0.3480087	0.07224742	2.31E-06
G	A	0.02	-0.3513393	0.07445063	3.62E-06

T	C	0.02	-0.3321112	0.07342092	8.67E-06
G	A	0.02	-0.3511419	0.07445249	3.66E-06
T	G	0.02	-0.3480087	0.07224742	2.31E-06
G	C	0.02	-0.367142	0.07322195	9.20E-07
C	T	0.02	-0.367142	0.07322195	9.20E-07
G	A	0.02	-0.367142	0.07322195	9.20E-07
T	C	0.02	-0.367142	0.07322195	9.20E-07
T	C	0.02	-0.367142	0.07322195	9.20E-07
G	A	0.02	-0.352948	0.07451747	3.34E-06
C	T	0.02	-0.367142	0.07322195	9.20E-07
C	G	0.02	-0.367142	0.07322195	9.20E-07
A	G	0.02	-0.407087	0.0751805	1.30E-07
G	C	0.02	-0.367142	0.07322195	9.20E-07
G	A	0.03	-0.2746154	0.05926889	5.32E-06
G	T	0.03	-0.2976292	0.0604694	1.42E-06
T	C	0.07	-0.2543918	0.05373823	3.38E-06
G	C	0.08	-0.2183355	0.04761605	6.59E-06
A	C	0.42	-0.1218218	0.02687199	8.29E-06
ATG	A	0.42	0.1264368	0.0281433	9.92E-06
A	G	0.43	0.1176579	0.02565111	6.55E-06
GA	G	0.05	0.2922163	0.06130546	2.91E-06
C	CTGTGTGTGTGTG	0.04	-0.2887263	0.06359346	8.05E-06
C	T	0.02	-0.4044222	0.08543144	3.38E-06
TAC	T	0.25	-0.162212	0.0337359	2.41E-06
G	A	0.25	0.1391616	0.03067096	8.15E-06
G	A	0.25	0.1416979	0.03074913	5.95E-06
T	G	0.24	0.1400377	0.03075929	7.62E-06
T	A	0.24	0.1467199	0.03071411	2.78E-06
C	A	0.24	0.1419635	0.03081146	5.97E-06
TCA	T	0.24	0.141726	0.03084374	6.32E-06
G	A	0.25	0.1416979	0.03074913	5.95E-06
C	A	0.25	0.1416979	0.03074913	5.95E-06
C	A	0.25	0.1416979	0.03074913	5.95E-06
T	A	0.25	0.1416979	0.03074913	5.95E-06
G	A	0.25	0.1416979	0.03074913	5.95E-06
C	A	0.24	0.1440959	0.0307377	4.16E-06
C	T	0.23	0.1429508	0.03125467	6.94E-06
T	G	0.23	0.1448298	0.03141911	5.92E-06
T	C	0.23	0.1463153	0.03143062	4.83E-06
A	G	0.23	0.1443694	0.03145074	6.45E-06
G	GA	0.22	0.1454296	0.03170105	6.53E-06
C	T	0.23	0.1451833	0.03137943	5.48E-06
T	C	0.23	0.1461433	0.03139167	4.82E-06
C	T	0.02	-0.407058	0.08933191	7.48E-06
C	G	0.19	0.1605125	0.03465656	5.37E-06
T	C	0.08	0.2328263	0.05000539	4.81E-06
G	A	0.08	0.2328263	0.05000539	4.81E-06
C	A	0.03	-0.3840774	0.08222696	4.50E-06
G	A	0.03	-0.3840774	0.08222696	4.50E-06
G	T	0.03	-0.3840774	0.08222696	4.50E-06

C	T	0.03	-0.3840774	0.08222696	4.50E-06
C	A	0.03	-0.3783243	0.0834394	8.27E-06
TG	T	0.03	-0.3783243	0.0834394	8.27E-06
C	A	0.03	-0.3783243	0.0834394	8.27E-06
C	CT	0.02	-0.3970667	0.08537823	4.92E-06
T	G	0.02	-0.4579762	0.09815831	4.60E-06
T	C	0.02	-0.4592954	0.09956788	5.83E-06
G	A	0.15	0.1642879	0.03639507	9.03E-06
A	C	0.28	-0.1384528	0.02881435	2.44E-06
T	C	0.16	-0.1651797	0.03662436	9.19E-06
T	C	0.39	0.1223858	0.02722856	9.82E-06
C	A	0.4	0.1236229	0.02658465	4.94E-06
A	T	0.08	-0.2437642	0.05090389	2.63E-06
T	C	0.08	-0.2295904	0.05016668	6.85E-06
A	G	0.08	-0.2525739	0.05134907	1.44E-06
C	A	0.18	0.170342	0.03589606	3.21E-06
G	GTGTGTGTA	0.01	-0.5735169	0.1238948	5.43E-06
A	T	0.01	-0.5322716	0.1162936	6.84E-06
A	T	0.06	-0.2650037	0.05774181	6.47E-06
C	T	0.03	-0.3435677	0.07328481	4.16E-06
C	T	0.04	-0.3283649	0.07269096	8.90E-06
G	A	0.36	0.1220016	0.02705257	9.20E-06
T	C	0.48	0.1191806	0.02582411	5.77E-06
C	G	0.09	-0.219475	0.04630633	3.29E-06
T	A	0.02	-0.4314879	0.09474684	7.57E-06
A	G	0.02	-0.4314879	0.09474684	7.57E-06
G	T	0.01	-1.09239	0.2430431	9.84E-06
C	A	0.48	-0.2386638	0.05143981	5.18E-06
A	G	0.38	-0.2470073	0.05388338	6.64E-06
T	G	0.37	-0.2460448	0.0543396	8.51E-06
TC	T	0.44	-0.2441073	0.05148078	3.27E-06
T	C	0.49	-0.2224316	0.0472362	3.79E-06
C	T	0.1	-0.4219909	0.09102595	5.27E-06
T	C	0.1	-0.4219909	0.09102595	5.27E-06
A	G	0.1	-0.4219909	0.09102595	5.27E-06
T	C	0.1	-0.4219909	0.09102595	5.27E-06
G	T	0.1	-0.4219909	0.09102595	5.27E-06
C	T	0.1	-0.4197136	0.09072702	5.51E-06
A	G	0.1	-0.4197136	0.09072702	5.51E-06
C	T	0.03	-0.735345	0.1626493	8.77E-06
G	A	0.03	-0.735345	0.1626493	8.77E-06
G	A	0.01	-1.285373	0.255923	8.86E-07
C	T	0.01	-1.285373	0.255923	8.86E-07
C	T	0.08	0.4720788	0.1041341	8.31E-06
CTTGT	C	0.39	-0.2431744	0.05268434	5.77E-06
T	C	0.09	-0.4024587	0.08920272	9.13E-06
A	G	0.06	0.4933901	0.1092878	9.02E-06
G	GAGAAAGAA	0.06	-0.5105946	0.1092407	4.44E-06
C	T	0.02	-1.009088	0.2131326	3.38E-06
C	T	0.02	-0.9692309	0.2061283	3.91E-06

C	T	0.01	-1.006679	0.2211598	7.66E-06
A	C	0.01	-1.095779	0.2430976	9.30E-06
A	G	0.01	-1.084904	0.2345553	5.52E-06
G	T	0.03	-0.7556509	0.156548	2.21E-06
C	G	0.03	-0.7498209	0.1649708	7.88E-06
A	G	0.02	-0.8629501	0.1766474	1.69E-06
A	G	0.48	-0.2437069	0.05377421	8.35E-06
T	A	0.04	-0.7140665	0.1389825	5.10E-07
C	T	0.01	-1.17265	0.2339834	9.32E-07
TAATAA	T	0.24	0.2883658	0.06151978	4.18E-06
G	A	0.26	-0.2629851	0.05704316	5.91E-06
T	C	0.01	-1.195654	0.2621201	7.34E-06
C	T	0.01	-1.018179	0.2265579	9.86E-06
T	A	0.03	0.7327635	0.1617348	8.41E-06
G	A	0.02	-0.9221841	0.1786282	4.52E-07
A	C	0.09	-0.4287882	0.08762749	1.63E-06
T	A	0.01	-1.156986	0.2549467	8.13E-06
C	T	0.02	-0.7776468	0.1663295	4.41E-06
T	C	0.02	-0.9429992	0.2046523	5.97E-06
G	T	0.02	-0.8031626	0.1671335	2.44E-06
G	T	0.04	-0.6168798	0.1249735	1.33E-06
T	C	0.04	-0.70116	0.1317488	2.07E-07
A	G	0.04	-0.6515879	0.1285828	7.15E-07
A	AACAC	0.01	-1.07042	0.2322116	5.92E-06
AT	A	0.02	-0.8350465	0.1834469	7.65E-06
A	G	0.02	-0.8976022	0.1816216	1.29E-06
A	T	0.02	-0.9310838	0.2023669	6.16E-06
A	G	0.04	-0.5629512	0.1239947	8.06E-06
C	T	0.05	-0.5703341	0.1178829	2.10E-06
G	A	0.13	0.3490083	0.07736428	9.15E-06
T	C	0.11	0.3803283	0.0830284	6.74E-06
C	T	0.01	-1.097856	0.2399612	6.91E-06
C	T	0.37	0.2528913	0.05457584	5.32E-06
T	C	0.01	-1.126233	0.2262954	1.10E-06
T	G	0.01	-1.126233	0.2262954	1.10E-06
A	G	0.01	-1.126233	0.2262954	1.10E-06
G	A	0.04	-0.6811602	0.1414327	2.33E-06
ATG	A	0.01	-1.127249	0.2426697	5.05E-06
C	T	0.01	-0.9862435	0.2121603	4.98E-06
G	A	0.01	-1.144637	0.2448092	4.41E-06
G	A	0.04	-0.5911276	0.1309432	9.03E-06
C	T	0.04	-0.5911276	0.1309432	9.03E-06
G	A	0.04	-0.5799679	0.126123	6.23E-06
C	A	0.2	-0.3165397	0.06586869	2.44E-06
C	A	0.16	0.3337767	0.07215063	5.51E-06
TTG	T	0.02	-0.9011542	0.1853907	1.90E-06
G	A	0.13	-0.3693826	0.07919029	4.66E-06
G	A	0.13	-0.3693826	0.07919029	4.66E-06
G	GCAACAA	0.04	-0.6238577	0.1378498	8.63E-06
G	A	0.07	-0.4887856	0.1044014	4.31E-06

C	T	0.06	-0.581469	0.1119889	3.95E-07
C	A	0.06	-0.581469	0.1119889	3.95E-07
TATC	T	0.06	-0.5838948	0.1125777	4.06E-07
T	C	0.16	-0.3347988	0.07195328	4.91E-06
C	T	0.01	-0.9421555	0.1961939	2.49E-06
CA	C	0.01	-1.075596	0.2061184	3.48E-07
T	C	0.02	-0.919692	0.2039773	9.29E-06
G	A	0.01	-1.193041	0.2310816	4.55E-07
TCGCTCCCCG	T	0.01	-1.082749	0.2249447	2.37E-06
G	A	0.07	-0.5321077	0.10436	6.20E-07
C	T	0.07	-0.5440549	0.1038154	3.12E-07
C	T	0.08	-0.5351542	0.1027565	3.66E-07
T	C	0.08	-0.5351542	0.1027565	3.66E-07
C	T	0.08	-0.5351542	0.1027565	3.66E-07
T	C	0.08	-0.5351542	0.1027565	3.66E-07
T	C	0.08	-0.5351542	0.1027565	3.66E-07
C	A	0.08	-0.4944626	0.1019305	1.99E-06
C	G	0.08	-0.5206261	0.09661682	1.50E-07
G	A	0.07	-0.5440549	0.1038154	3.12E-07
C	G	0.07	-0.5440549	0.1038154	3.12E-07
C	A	0.07	-0.5079463	0.1044704	1.89E-06
G	C	0.07	-0.5440549	0.1038154	3.12E-07
T	C	0.06	-0.5636019	0.1171089	2.38E-06
G	T	0.09	-0.3919107	0.08614284	7.77E-06
C	A	0.02	-0.8080031	0.1795895	9.69E-06
C	T	0.04	-0.6833201	0.1423736	2.53E-06
T	A	0.04	-0.6833201	0.1423736	2.53E-06
T	A	0.06	-0.467943	0.1024842	7.23E-06
C	G	0.04	-0.6803508	0.1437385	3.42E-06
T	A	0.11	-0.3742775	0.08172716	6.81E-06
CTGTGTGTG	C	0.25	-0.2844295	0.06218393	6.98E-06
T	A	0.34	-0.2564894	0.05630627	7.58E-06
C	G	0.03	-0.6704623	0.1446004	5.28E-06
T	TGC	0.03	-0.7159685	0.14961	2.69E-06
G	A	0.01	-1.149761	0.2451532	4.16E-06
C	CA	0.01	-1.283113	0.2487592	4.66E-07
A	C	0.01	-1.112756	0.2406861	5.60E-06
G	A	0.39	0.247392	0.0536793	5.98E-06
A	T	0.39	0.2513323	0.0537495	4.43E-06
T	TCACACACACACA	0.01	-1.028785	0.2244307	6.67E-06
TA	T	0.01	-1.152048	0.2543375	8.48E-06
CTCTTT	C	0.02	-1.03737	0.2191659	3.42E-06
T	C	0.01	-1.233068	0.2661886	5.38E-06
T	C	0.24	-0.3005189	0.06256429	2.48E-06
T	G	0.24	-0.3136442	0.06277188	1.01E-06
T	A	0.24	-0.3005189	0.06256429	2.48E-06
G	GTA	0.24	-0.2932283	0.0626456	4.33E-06
G	T	0.24	-0.3005189	0.06256429	2.48E-06
C	G	0.23	-0.3107531	0.06323486	1.48E-06
T	C	0.24	-0.2993278	0.06288555	3.03E-06

T	TA	0.01	-1.181924	0.2622178	9.35E-06
C	CCA	0.04	-0.5979895	0.1316267	8.00E-06
G	A	0.04	-0.5761045	0.1268116	8.00E-06
TC	T	0.02	-0.8670509	0.1897987	7.16E-06
G	A	0.02	-0.8670509	0.1897987	7.16E-06
TG	T	0.02	-0.8945732	0.1952662	6.75E-06
T	A	0.02	-0.8945732	0.1952662	6.75E-06
T	TTG	0.01	-1.11655	0.2484245	9.89E-06
T	C	0.43	0.2428398	0.05271889	6.04E-06
T	C	0.43	0.2377482	0.05269114	9.16E-06
GT	G	0.14	-0.3473538	0.07294541	3.00E-06
C	T	0.28	0.2626149	0.05709818	6.23E-06
C	A	0.28	0.2654746	0.05726299	5.29E-06
A	G	0.17	-0.324345	0.07160687	8.49E-06
C	G	0.06	-0.5357457	0.1178245	7.86E-06
G	C	0.06	-0.5357457	0.1178245	7.86E-06
A	G	0.05	-0.5385275	0.1190505	8.71E-06
G	A	0.05	-0.5385275	0.1190505	8.71E-06
G	C	0.05	-0.5451947	0.1201802	8.23E-06
G	C	0.01	-0.9952483	0.2097445	3.24E-06
TTC	T	0.01	-1.058713	0.2306266	6.48E-06
G	A	0.04	-0.6300299	0.1346275	4.35E-06
G	A	0.04	-0.6300299	0.1346275	4.35E-06
G	T	0.04	-0.6249971	0.1355615	5.93E-06
G	A	0.04	-0.6300299	0.1346275	4.35E-06
C	T	0.04	-0.6340086	0.1359209	4.66E-06
A	G	0.04	-0.6300299	0.1346275	4.35E-06
T	G	0.04	-0.6300299	0.1346275	4.35E-06
A	G	0.04	-0.6300299	0.1346275	4.35E-06
A	T	0.04	-0.6300299	0.1346275	4.35E-06
C	T	0.04	-0.6300299	0.1346275	4.35E-06
G	A	0.04	-0.6078299	0.1336041	7.77E-06
A	C	0.04	-0.6550253	0.1364132	2.50E-06
A	C	0.04	-0.6300299	0.1346275	4.35E-06
A	AT	0.04	-0.6488854	0.1358228	2.79E-06
A	G	0.04	-0.6300299	0.1346275	4.35E-06
G	A	0.04	-0.6550253	0.1364132	2.50E-06
A	G	0.04	-0.6300299	0.1346275	4.35E-06
A	AAAAC	0.04	-0.6300299	0.1346275	4.35E-06
AT	A	0.04	-0.6300299	0.1346275	4.35E-06
A	G	0.04	-0.6550253	0.1364132	2.50E-06
C	T	0.14	0.356086	0.0772832	6.01E-06
C	G	0.14	0.3510184	0.07736406	8.20E-06
G	A	0.14	0.356086	0.0772832	6.01E-06
G	A	0.15	0.3447061	0.07525323	6.77E-06
A	G	0.15	0.3538812	0.0768411	6.07E-06
A	C	0.15	0.3720122	0.07518253	1.27E-06
T	C	0.28	0.2800704	0.05682531	1.39E-06
C	T	0.02	-0.8389837	0.1844296	7.79E-06
CAGA	C	0.1	-0.4156287	0.09179258	8.55E-06

AAAAT	A	0.05	-0.6647551	0.1229422	1.37E-07
A	G	0.15	-0.3333781	0.07162253	4.87E-06
A	G	0.04	-0.6000557	0.1281753	4.32E-06
A	G	0.01	-1.115088	0.2396671	4.91E-06
A	T	0.01	-1.158666	0.2415458	2.56E-06
T	TCACACACACA	0.02	-0.8859026	0.1682136	2.75E-07
G	A	0.02	-0.8706494	0.1892776	6.22E-06
G	A	0.01	-1.062312	0.2290776	5.26E-06
G	A	0.01	-1.062312	0.2290776	5.26E-06
C	G	0.01	-1.062312	0.2290776	5.26E-06
T	C	0.01	-1.05835	0.2323145	7.56E-06
C	CT	0.02	-0.9643369	0.1845708	3.37E-07
C	T	0.12	0.355607	0.07763812	6.78E-06
G	A	0.02	-1.097003	0.2176292	8.18E-07
CAT	C	0.02	-1.097003	0.2176292	8.18E-07
T	G	0.02	-1.097003	0.2176292	8.18E-07
G	A	0.02	-1.097003	0.2176292	8.18E-07
G	A	0.02	-1.097003	0.2176292	8.18E-07
T	C	0.02	-1.097003	0.2176292	8.18E-07
A	G	0.02	-1.097003	0.2176292	8.18E-07
G	A	0.02	-0.9944358	0.2134632	4.79E-06
T	C	0.02	-0.9944358	0.2134632	4.79E-06
C	T	0.02	-0.9944358	0.2134632	4.79E-06
CAT	C	0.02	-0.9944358	0.2134632	4.79E-06
A	C	0.02	-0.9944358	0.2134632	4.79E-06
C	T	0.02	-0.9944358	0.2134632	4.79E-06
T	TTC	0.02	-0.9944358	0.2134632	4.79E-06
T	A	0.02	-0.9944358	0.2134632	4.79E-06
T	C	0.02	-0.9944358	0.2134632	4.79E-06
C	T	0.02	-0.9944358	0.2134632	4.79E-06
C	G	0.02	-0.9944358	0.2134632	4.79E-06
G	C	0.02	-0.9944358	0.2134632	4.79E-06
C	T	0.02	-0.9944358	0.2134632	4.79E-06
T	C	0.02	-0.9944358	0.2134632	4.79E-06
T	C	0.02	-1.020769	0.2184699	4.50E-06
G	A	0.02	-1.020769	0.2184699	4.50E-06
G	T	0.02	-1.020769	0.2184699	4.50E-06
C	T	0.02	-1.020769	0.2184699	4.50E-06
G	C	0.02	-1.020769	0.2184699	4.50E-06
T	C	0.02	-1.020769	0.2184699	4.50E-06
G	A	0.02	-1.020769	0.2184699	4.50E-06
G	A	0.02	-1.020769	0.2184699	4.50E-06
G	A	0.02	-1.020769	0.2184699	4.50E-06
T	C	0.01	-1.017067	0.221796	6.63E-06
A	G	0.02	-1.05364	0.2127917	1.25E-06
T	A	0.02	-1.020769	0.2184699	4.50E-06
C	G	0.02	-1.020769	0.2184699	4.50E-06
G	A	0.02	-1.05364	0.2127917	1.25E-06
T	C	0.02	-1.05364	0.2127917	1.25E-06
C	T	0.02	-1.020769	0.2184699	4.50E-06

CCAG	C	0.02	-1.020769	0.2184699	4.50E-06
A	G	0.02	-1.05364	0.2127917	1.25E-06
C	T	0.01	-1.222122	0.2537783	2.34E-06
A	C	0.43	-0.247503	0.05446905	7.97E-06
C	G	0.47	0.2313311	0.05129157	9.24E-06
T	C	0.06	-0.514882	0.1112198	5.45E-06
C	A	0.21	-0.2846767	0.06293854	8.73E-06
T	C	0.02	-0.9403538	0.1961048	2.58E-06
G	A	0.02	-0.9517885	0.1841385	4.42E-07
G	A	0.03	-0.7276579	0.155319	4.25E-06
G	A	0.01	-1.252311	0.2546391	1.46E-06
A	AAAAT	0.03	-0.7776038	0.1693128	6.42E-06
A	G	0.01	-1.072887	0.2212891	2.02E-06
TA	T	0.01	-1.113411	0.2350561	3.36E-06
A	G	0.25	-0.1355346	0.02812448	2.29E-06
C	T	0.04	-0.3176774	0.06416703	1.24E-06
T	A	0.04	-0.2920254	0.06411801	7.56E-06
G	A	0.42	-0.1148249	0.0253133	8.19E-06
C	T	0.07	-0.2155405	0.04771859	8.92E-06
T	A	0.07	-0.2145895	0.04735169	8.35E-06
A	C	0.07	-0.214973	0.04731097	7.92E-06
G	T	0.07	-0.216001	0.04745879	7.66E-06
C	T	0.07	-0.2140905	0.04731996	8.63E-06
T	G	0.01	-0.5160341	0.1147176	9.67E-06
T	C	0.01	-0.5160341	0.1147176	9.67E-06
T	A	0.01	-0.4702325	0.1001316	4.01E-06
T	C	0.01	-0.4702325	0.1001316	4.01E-06
G	A	0.01	-0.5324072	0.1079768	1.36E-06
T	C	0.04	-0.2997795	0.06056056	1.24E-06
T	C	0.04	-0.2997795	0.06056056	1.24E-06
C	CG	0.04	-0.2997795	0.06056056	1.24E-06
C	T	0.04	-0.2997795	0.06056056	1.24E-06
A	G	0.04	-0.2997795	0.06056056	1.24E-06
T	G	0.04	-0.2997795	0.06056056	1.24E-06
G	A	0.04	-0.2997795	0.06056056	1.24E-06
C	G	0.04	-0.2997795	0.06056056	1.24E-06
C	G	0.04	-0.2997795	0.06056056	1.24E-06
C	T	0.04	-0.2997795	0.06056056	1.24E-06
G	A	0.04	-0.2997795	0.06056056	1.24E-06
A	G	0.04	-0.2997795	0.06056056	1.24E-06
A	T	0.04	-0.2997795	0.06056056	1.24E-06
G	A	0.38	-0.1196581	0.02511442	2.94E-06
T	C	0.38	-0.1183621	0.02511531	3.72E-06
G	A	0.38	-0.1183496	0.02511542	3.73E-06
C	T	0.38	-0.1127463	0.02507384	9.75E-06
T	A	0.39	-0.1156367	0.02509084	5.94E-06
C	T	0.39	-0.1186082	0.02505799	3.39E-06
T	C	0.38	-0.1183496	0.02511542	3.73E-06
G	A	0.38	-0.1127463	0.02507384	9.75E-06
C	T	0.38	-0.120915	0.02514853	2.41E-06

C	G	0.38	-0.1183621	0.02511531	3.72E-06
A	G	0.38	-0.120915	0.02514853	2.41E-06
G	C	0.38	-0.1199708	0.02516667	2.91E-06
C	T	0.39	-0.1162105	0.02509231	5.37E-06
A	G	0.38	-0.1183496	0.02511542	3.73E-06
A	G	0.38	-0.120915	0.02514853	2.41E-06
A	G	0.38	-0.1127463	0.02507384	9.75E-06
A	G	0.38	-0.1183496	0.02511542	3.73E-06
G	A	0.38	-0.1127463	0.02507384	9.75E-06
A	G	0.38	-0.120915	0.02514853	2.41E-06
A	G	0.38	-0.1230621	0.02505169	1.49E-06
T	C	0.38	-0.1186551	0.02514325	3.62E-06
T	C	0.38	-0.1210317	0.02516684	2.40E-06
T	C	0.38	-0.1189556	0.0251563	3.46E-06
GTT	G	0.37	-0.1143558	0.02513478	7.72E-06
C	T	0.38	-0.120153	0.02517606	2.84E-06
A	G	0.38	-0.120153	0.02517606	2.84E-06
G	C	0.38	-0.1167248	0.0252306	5.49E-06
A	G	0.38	-0.1152293	0.02519261	6.93E-06
A	G	0.38	-0.1174353	0.02519198	4.69E-06
T	C	0.38	-0.1174353	0.02519198	4.69E-06
GCACACA	G	0.04	-0.3022569	0.06421735	3.82E-06
G	T	0.16	-0.1510828	0.03313865	7.40E-06
A	G	0.05	-0.2977581	0.05988734	1.12E-06
G	T	0.16	0.1541525	0.03407141	8.63E-06
G	A	0.32	-0.1150559	0.02535496	8.13E-06
G	T	0.22	0.1443345	0.03107145	5.05E-06
C	T	0.06	-0.2397913	0.05264863	7.55E-06
A	G	0.15	-0.1633627	0.03444048	3.24E-06
GT	G	0.02	-0.4126509	0.0897602	6.25E-06
C	T	0.29	-0.1257122	0.02673211	3.90E-06
G	A	0.02	-0.389704	0.08173368	2.90E-06
A	G	0.05	-0.2621101	0.05566289	3.79E-06
A	G	0.05	-0.2627693	0.05653076	4.98E-06
CT	C	0.04	-0.3115758	0.06617078	3.79E-06
A	G	0.03	-0.3317484	0.07316203	8.25E-06
GCA	G	0.02	-0.4572052	0.101692	9.77E-06
CCACACATACACACA	C	0.19	-0.1619359	0.03022167	1.72E-07
C	G	0.47	0.1095988	0.02433648	9.46E-06
C	CGTGTGTGTGT	0.01	-0.4836961	0.103462	4.41E-06
G	A	0.02	-0.3937513	0.08355774	3.73E-06
\CACACACACACAC	G	0.02	-0.4081237	0.08611482	3.30E-06
G	A	0.02	-0.37117	0.0823987	9.41E-06
A	\GCTGTGTGATCACTG	0.02	-0.381313	0.08447233	9.03E-06
G	A	0.02	-0.37117	0.0823987	9.41E-06
G	C	0.02	-0.37117	0.0823987	9.41E-06
A	T	0.02	-0.3937513	0.08355774	3.73E-06
C	T	0.02	-0.3937513	0.08355774	3.73E-06
G	T	0.02	-0.3937513	0.08355774	3.73E-06
G	A	0.02	-0.3937513	0.08355774	3.73E-06

C	T	0.02	-0.3937513	0.08355774	3.73E-06
G	A	0.02	-0.3937513	0.08355774	3.73E-06
T	TAGA	0.02	-0.3937513	0.08355774	3.73E-06
C	A	0.02	-0.3937513	0.08355774	3.73E-06
G	A	0.02	-0.3920198	0.08362043	4.16E-06
C	T	0.03	-0.3288952	0.07307035	9.56E-06
T	C	0.01	-0.5080437	0.1075302	3.53E-06
C	A	0.33	-0.1194144	0.02553383	4.38E-06
CT	C	0.07	-0.2349736	0.0512818	6.69E-06
T	C	0.03	0.3727234	0.08110102	6.29E-06
C	T	0.29	-0.1246553	0.0275766	8.78E-06
TAC	T	0.01	0.5655156	0.1233596	6.62E-06
C	T	0.15	-0.1591812	0.03479732	6.92E-06
T	C	0.02	0.3686197	0.08079745	7.30E-06
C	T	0.13	0.1739475	0.03805395	7.02E-06
T	C	0.14	0.1682277	0.03733649	9.36E-06
C	T	0.14	0.1682277	0.03733649	9.36E-06
G	GA	0.27	0.1445934	0.03202886	9.01E-06
C	A	0.38	-0.1259531	0.02582019	1.74E-06
G	A	0.37	-0.1366426	0.02625587	3.68E-07
AT	A	0.08	0.2119939	0.04696942	9.05E-06
AAAATAAATAAAT	A	0.01	0.5828058	0.1241564	4.05E-06
T	C	0.14	-0.1633957	0.03580286	7.25E-06
G	A	0.11	0.1976126	0.03987595	1.21E-06
G	A	0.11	0.1937682	0.04029911	2.41E-06
A	G	0.11	0.1976126	0.03987595	1.21E-06
T	G	0.11	0.1976126	0.03987595	1.21E-06
G	A	0.11	0.1937682	0.04029911	2.41E-06
C	T	0.11	0.1937682	0.04029911	2.41E-06
C	G	0.1	0.1992303	0.04100628	1.91E-06
A	G	0.1	0.203362	0.04086449	1.10E-06
C	T	0.1	0.1946548	0.04194804	5.16E-06
C	A	0.1	0.1983319	0.0411333	2.26E-06
C	T	0.11	0.1933249	0.04033532	2.58E-06
T	C	0.1	0.1902839	0.04040013	3.77E-06
A	G	0.1	0.1902839	0.04040013	3.77E-06
C	T	0.11	0.1937682	0.04029911	2.41E-06
A	C	0.1	0.1903654	0.04039772	3.73E-06
A	G	0.11	0.1937682	0.04029911	2.41E-06
T	C	0.11	0.1937682	0.04029911	2.41E-06
A	T	0.11	0.1937682	0.04029911	2.41E-06
G	A	0.1	0.1897568	0.04038974	3.98E-06
C	G	0.11	0.1970787	0.04022158	1.57E-06
A	AATGT	0.11	0.1970787	0.04022158	1.57E-06
T	C	0.11	0.1937682	0.04029911	2.41E-06
C	T	0.11	0.1937682	0.04029911	2.41E-06
C	T	0.11	0.2009786	0.04026829	1.03E-06
G	A	0.11	0.1926193	0.04034829	2.82E-06
T	C	0.11	0.1903495	0.04023249	3.42E-06
T	G	0.11	0.1903495	0.04023249	3.42E-06

T	G	0.11	0.1937682	0.04029911	2.41E-06
G	A	0.11	0.2012375	0.03991492	8.07E-07
T	C	0.11	0.1970787	0.04022158	1.57E-06
C	G	0.11	0.1937682	0.04029911	2.41E-06
C	G	0.11	0.1976126	0.03987595	1.21E-06
C	T	0.11	0.1937682	0.04029911	2.41E-06
A	G	0.11	0.1970787	0.04022158	1.57E-06
G	C	0.1	0.1868891	0.04048597	5.75E-06
C	A	0.1	0.1836401	0.04059583	8.66E-06
C	G	0.1	0.1868804	0.04068197	6.35E-06
T	C	0.1	0.1894607	0.04061016	4.61E-06
T	G	0.1	0.1858164	0.04081135	7.60E-06
A	G	0.1	0.1898378	0.04041133	3.99E-06
A	G	0.11	0.1976126	0.03987595	1.21E-06
A	C	0.11	0.1970787	0.04022158	1.57E-06
G	A	0.11	0.2012558	0.03993587	8.15E-07
C	T	0.1	0.1974473	0.04035993	1.63E-06
A	AGGC	0.11	0.2045141	0.04016343	6.34E-07
C	T	0.1	0.1917991	0.04232381	8.35E-06
TAATC	T	0.17	-0.151138	0.03342064	8.71E-06
T	C	0.11	0.1869556	0.03999395	4.42E-06
CT	C	0.01	0.6145548	0.1216628	7.71E-07
A	ATGTGTGTGTG	0.01	0.5657476	0.1206566	4.15E-06
G	A	0.19	0.1419229	0.03149162	9.32E-06
T	C	0.02	0.4556916	0.1009982	9.11E-06
T	C	0.48	0.1158919	0.02510472	5.74E-06
C	G	0.47	0.1166671	0.02556506	7.26E-06
G	A	0.47	0.114764	0.02552342	9.75E-06
G	A	0.47	0.1153477	0.02564207	9.67E-06
G	A	0.38	0.1214996	0.02641563	6.19E-06
G	A	0.38	0.1185241	0.02638014	9.90E-06
A	G	0.38	0.1189142	0.02639469	9.38E-06
G	A	0.39	0.131968	0.0259965	6.83E-07
A	G	0.38	-0.1273934	0.02520565	7.60E-07
A	G	0.38	-0.130659	0.02521443	4.11E-07
C	A	0.42	-0.1077914	0.02391506	9.30E-06
T	TA	0.38	-0.1332747	0.0251268	2.26E-07
G	C	0.39	-0.1229891	0.0249971	1.43E-06
T	C	0.37	-0.1338967	0.02532153	2.44E-07
A	G	0.37	-0.1343596	0.02525882	2.09E-07
T	A	0.37	-0.1339394	0.02532773	2.44E-07
G	A	0.37	-0.1277331	0.02527845	7.64E-07
C	T	0.38	-0.1216289	0.0251293	2.08E-06
C	T	0.37	-0.1280487	0.02533904	7.63E-07
T	C	0.4	-0.1186002	0.02492939	3.04E-06
T	G	0.4	-0.1295111	0.02484409	3.53E-07
A	G	0.37	-0.1237	0.02526759	1.61E-06
A	G	0.37	-0.1361532	0.0252175	1.41E-07
G	C	0.37	-0.1357759	0.02520966	1.50E-07
C	G	0.37	-0.131228	0.02533341	4.14E-07

T	C	0.37	-0.1344441	0.02527104	2.08E-07
A	C	0.38	-0.1375774	0.02516977	1.00E-07
T	A	0.37	-0.1315919	0.02527279	3.64E-07
T	C	0.37	-0.1340723	0.02526359	2.22E-07
G	A	0.37	-0.1340904	0.02526189	2.21E-07
G	A	0.37	-0.1317596	0.02524684	3.43E-07
A	G	0.4	-0.1326753	0.02450296	1.30E-07
T	C	0.37	-0.1290786	0.02528515	5.96E-07
T	C	0.38	-0.1322201	0.02518331	2.94E-07
T	G	0.4	-0.1189263	0.02488638	2.76E-06
A	G	0.37	-0.1313078	0.02530789	3.98E-07
A	G	0.37	-0.1289706	0.02525422	5.90E-07
T	C	0.37	-0.1359175	0.02521141	1.46E-07
T	C	0.38	-0.1299367	0.02513416	4.36E-07
T	C	0.4	-0.1231102	0.02487379	1.25E-06
C	T	0.38	-0.1216439	0.02491311	1.71E-06
C	A	0.37	-0.1344441	0.02527104	2.08E-07
A	G	0.39	-0.1279244	0.0249166	5.18E-07
G	A	0.37	-0.1327239	0.02525769	2.88E-07
C	A	0.38	-0.1286348	0.02500591	4.93E-07
C	A	0.38	-0.124977	0.0251139	1.10E-06
T	C	0.37	-0.1340723	0.02526359	2.22E-07
T	G	0.38	-0.1240663	0.0248509	1.02E-06
A	T	0.37	-0.1291428	0.02504665	4.66E-07
G	A	0.38	-0.1254853	0.02500744	9.03E-07
T	C	0.37	-0.1286548	0.02507273	5.25E-07
C	T	0.38	-0.1240356	0.02499372	1.17E-06
A	C	0.38	-0.1241726	0.0251366	1.31E-06
A	G	0.38	-0.1290891	0.02513772	5.15E-07
G	A	0.37	-0.1295033	0.0252856	5.50E-07
C	T	0.37	-0.1308596	0.02542479	4.87E-07
T	C	0.3	-0.12291	0.02706554	8.01E-06
G	A	0.28	-0.1336283	0.0274288	1.79E-06
C	T	0.02	0.4341605	0.0914175	3.15E-06
A	G	0.01	0.4942165	0.1069103	5.58E-06
G	A	0.03	0.3730752	0.08124392	6.40E-06
C	G	0.04	0.3140232	0.06860133	6.82E-06
C	T	0.04	0.3140232	0.06860133	6.82E-06
C	G	0.04	0.3140232	0.06860133	6.82E-06
T	A	0.04	0.327623	0.06900906	3.18E-06
G	T	0.04	0.3140232	0.06860133	6.82E-06
G	T	0.04	0.3140232	0.06860133	6.82E-06
G	T	0.04	0.3140232	0.06860133	6.82E-06
T	C	0.04	0.3140232	0.06860133	6.82E-06
G	A	0.04	0.3140232	0.06860133	6.82E-06
T	C	0.03	0.3538481	0.07278106	1.88E-06
G	A	0.04	0.3195817	0.0699572	7.11E-06
G	A	0.04	0.3197415	0.06992411	6.97E-06
A	G	0.04	0.3195817	0.0699572	7.11E-06
G	A	0.04	0.3197415	0.06992411	6.97E-06

A	G	0.04	0.3195819	0.06998184	7.16E-06
C	T	0.04	0.3012178	0.06369685	3.46E-06
G	A	0.04	0.2968763	0.06282061	3.51E-06
C	T	0.04	0.3026009	0.06534472	5.38E-06
A	T	0.18	0.1527722	0.03225476	3.34E-06
G	A	0.18	0.1527722	0.03225476	3.34E-06
C	CTGTG	0.02	0.3763849	0.08324123	8.73E-06
G	A	0.33	0.1238215	0.02731099	8.28E-06
A	G	0.33	0.1266753	0.02725696	5.00E-06
G	C	0.33	0.1265179	0.02725881	5.13E-06
T	C	0.37	0.1314994	0.02654232	1.22E-06
A	T	0.33	0.128727	0.02725424	3.55E-06
C	G	0.33	0.128727	0.02725424	3.55E-06
T	C	0.35	0.1262715	0.02654382	3.04E-06
A	G	0.35	0.1262715	0.02654382	3.04E-06
A	G	0.35	0.1262715	0.02654382	3.04E-06
G	A	0.35	0.1228689	0.02661388	5.73E-06
C	T	0.39	0.1329156	0.0258806	5.14E-07
G	A	0.35	0.1243526	0.02653765	4.20E-06
A	G	0.35	0.1251721	0.02651827	3.60E-06
A	G	0.35	0.1262715	0.02654382	3.04E-06
A	C	0.35	0.123472	0.02659004	5.08E-06
C	T	0.35	0.1249957	0.02650587	3.67E-06
CT	C	0.38	0.1284271	0.02594986	1.25E-06
G	A	0.35	0.1289316	0.02656211	1.95E-06
A	G	0.35	0.1267509	0.02649983	2.70E-06
T	C	0.33	0.136909	0.02617258	3.23E-07
G	T	0.35	0.128365	0.02649802	2.04E-06
C	T	0.35	0.128365	0.02649802	2.04E-06
T	C	0.35	0.1273772	0.02651961	2.46E-06
A	T	0.35	0.1218757	0.02653315	6.36E-06
A	G	0.35	0.1241223	0.02653984	4.38E-06
A	T	0.35	0.1231848	0.02656853	5.25E-06
T	C	0.35	0.1262238	0.02649491	2.95E-06
C	T	0.35	0.1262238	0.02649491	2.95E-06
G	A	0.35	0.1227191	0.02655621	5.62E-06
A	G	0.35	0.1239487	0.02651985	4.44E-06
AGAG	A	0.35	0.1286573	0.02645017	1.86E-06
G	A	0.35	0.1262238	0.02649491	2.95E-06
C	T	0.39	0.1358296	0.02580884	2.76E-07
C	G	0.35	0.1262238	0.02649491	2.95E-06
C	A	0.35	0.128435	0.02644462	1.92E-06
C	T	0.38	0.139411	0.02568383	1.22E-07
T	A	0.39	0.1372807	0.02584946	2.18E-07
G	A	0.38	0.1253688	0.02592949	2.13E-06
C	A	0.35	0.125881	0.02648621	3.10E-06
T	C	0.35	0.1241223	0.02653984	4.38E-06
T	TA	0.02	0.5178125	0.1002383	4.44E-07
G	A	0.03	0.33061	0.07258071	7.54E-06
C	T	0.03	0.3550848	0.07244384	1.56E-06

G	A	0.03	0.3381706	0.07178685	3.76E-06
G	A	0.03	0.3381706	0.07178685	3.76E-06
A	G	0.03	0.3381706	0.07178685	3.76E-06
G	A	0.03	0.3429036	0.06728631	6.21E-07
C	T	0.03	0.3550848	0.07244384	1.56E-06
C	T	0.03	0.3550848	0.07244384	1.56E-06
C	T	0.03	0.3324107	0.07258638	6.76E-06
G	A	0.03	0.3476683	0.07327327	3.22E-06
C	T	0.39	0.1154591	0.02542173	7.99E-06
CCAGGTGAGGA	C	0.13	-0.1780099	0.03692283	2.27E-06
C	G	0.19	0.1466059	0.03167535	5.44E-06
T	C	0.2	0.1393714	0.03093051	9.35E-06
C	T	0.16	0.1501707	0.03331494	9.29E-06
A	T	0.16	0.3512167	0.07587805	5.50E-06
C	T	0.13	0.3643616	0.08005942	7.75E-06
A	AC	0.16	0.3448387	0.07492916	6.19E-06
T	C	0.15	0.3499399	0.07642044	6.85E-06
G	A	0.01	-1.080846	0.2332183	5.36E-06
T	C	0.01	-1.080846	0.2332183	5.36E-06
AACAC	A	0.11	0.4117461	0.08992069	6.86E-06
C	T	0.02	-0.9667221	0.2060406	4.14E-06
GAC	G	0.03	-0.6848423	0.1496475	6.94E-06
G	A	0.03	-0.6848423	0.1496475	6.94E-06
G	A	0.03	-0.6848423	0.1496475	6.94E-06
G	GAGAT	0.03	-0.6848423	0.1496475	6.94E-06
C	T	0.03	-0.6848423	0.1496475	6.94E-06
TG	T	0.03	-0.6848423	0.1496475	6.94E-06
T	C	0.03	-0.6848423	0.1496475	6.94E-06
T	C	0.03	-0.6848423	0.1496475	6.94E-06
C	G	0.03	-0.6848423	0.1496475	6.94E-06
G	A	0.03	-0.6848423	0.1496475	6.94E-06
G	A	0.03	-0.6848423	0.1496475	6.94E-06
A	G	0.2	-0.3094784	0.06685212	5.48E-06
T	C	0.2	-0.3094784	0.06685212	5.48E-06
G	C	0.2	-0.3010554	0.06692302	9.76E-06
A	G	0.2	-0.3069034	0.06694802	6.70E-06
G	C	0.2	-0.3094784	0.06685212	5.48E-06
A	ACATTTGTAATCC	0.18	-0.3229203	0.07133634	8.63E-06
T	C	0.37	-0.2643903	0.05715431	5.57E-06
C	G	0.37	-0.286089	0.05687933	8.68E-07
TCTGCTTGGAGAACT#	T	0.36	0.2453281	0.05325305	6.06E-06
G	A	0.07	-0.4742458	0.103342	6.56E-06
T	TAC	0.06	-0.5516228	0.1166674	3.52E-06
G	C	0.02	-0.8342785	0.1837161	8.10E-06
A	G	0.23	-0.2880226	0.05872985	1.57E-06
C	T	0.02	0.8740653	0.1893526	5.82E-06
A	T	0.02	0.8740653	0.1893526	5.82E-06
A	AGTTT	0.05	0.6175966	0.132265	4.58E-06
T	C	0.19	-0.3145021	0.06871945	6.93E-06
G	C	0.18	0.3223932	0.07026539	6.58E-06

G	A	0.23	0.3032627	0.06621681	6.83E-06
G	A	0.37	0.259688	0.05694534	7.45E-06
T	C	0.36	0.2625199	0.05681419	5.70E-06
C	T	0.45	-0.2475363	0.05407751	6.90E-06
C	T	0.42	-0.2566841	0.05605271	6.84E-06
C	A	0.01	-1.305062	0.2432445	1.70E-07
C	T	0.02	-0.902885	0.1948178	5.36E-06
T	C	0.03	-0.7059775	0.1538242	6.54E-06
C	T	0.17	-0.3361073	0.07343743	6.92E-06
C	T	0.17	-0.3328275	0.07314963	7.79E-06
C	T	0.17	-0.3587487	0.07348427	1.74E-06
AGT	A	0.17	-0.3429359	0.0749706	7.00E-06
C	T	0.01	1.127379	0.2348972	2.54E-06
TCACA	T	0.05	0.5754415	0.1275778	9.27E-06
G	T	0.04	-0.6332498	0.1377684	6.34E-06
A	G	0.04	-0.6407201	0.1349898	3.24E-06
G	A	0.26	-0.2821869	0.06068555	5.00E-06
C	T	0.29	-0.3066475	0.05840788	3.00E-07
G	A	0.21	0.2983836	0.06602801	8.93E-06
C	T	0.19	-0.3053777	0.06603037	5.59E-06
G	A	0.01	-1.239264	0.2354067	2.77E-07
G	A	0.01	-1.127262	0.2336384	2.24E-06
T	C	0.01	-1.150643	0.2333862	1.38E-06
C	T	0.02	-0.9733816	0.1973175	1.36E-06
A	G	0.36	-0.2498827	0.04984701	9.31E-07
A	G	0.32	-0.2337544	0.05100415	6.69E-06
A	G	0.33	-0.2475835	0.05080996	1.80E-06
CA	C	0.01	-0.8108841	0.1783194	7.84E-06
T	C	0.02	-0.8595215	0.1900953	8.78E-06
G	A	0.01	-1.214422	0.2146073	3.79E-08
TCGCTCCCCG	T	0.01	-1.134121	0.2087661	1.20E-07
TACAC	T	0.02	-0.9542335	0.1843053	4.23E-07
T	C	0.01	-0.970892	0.2152789	9.24E-06
G	A	0.01	-0.970892	0.2152789	9.24E-06
G	A	0.01	-0.9773611	0.2106118	5.18E-06
C	A	0.01	-0.9773611	0.2106118	5.18E-06
C	T	0.01	-1.137716	0.2333535	1.77E-06
GACACAC	G	0.01	-1.053129	0.2220184	3.26E-06
T	C	0.01	-1.093372	0.1951798	5.08E-08
T	A	0.03	-0.6957297	0.1540435	8.98E-06
A	G	0.03	-0.7606976	0.1557436	1.70E-06
C	T	0.05	-0.5018836	0.1056371	3.15E-06
T	A	0.33	-0.2407621	0.05248189	6.56E-06
T	A	0.4	0.2332157	0.05102842	7.08E-06
C	T	0.39	0.2329953	0.05035648	5.51E-06
TCA	T	0.15	0.3216936	0.07117288	8.84E-06
G	A	0.05	-0.4743308	0.1045832	8.26E-06
GTCTATCTA	G	0.01	-1.044024	0.2257697	5.57E-06
G	A	0.02	-0.95867	0.193795	1.27E-06
T	G	0.02	-0.8959924	0.1804721	1.17E-06

C	T	0.02	-0.8959924	0.1804721	1.17E-06
C	G	0.03	-0.629518	0.1352402	4.86E-06
G	T	0.02	-0.9527806	0.1976537	2.29E-06
CAATT	C	0.01	-1.102273	0.2424574	7.87E-06
T	TCACACACACACA	0.01	-1.021518	0.2087636	1.63E-06
T	TC	0.44	0.2471124	0.04829667	5.68E-07
A	G	0.02	-0.7709551	0.1596564	2.20E-06
A	C	0.02	-0.7709551	0.1596564	2.20E-06
G	A	0.11	0.3527398	0.07840384	9.69E-06
AAAAT	A	0.01	-0.9173138	0.2005828	6.99E-06
G	A	0.14	-0.3282203	0.07067268	5.10E-06
C	A	0.04	-0.601826	0.1151254	3.32E-07
G	A	0.03	-0.7002701	0.1486794	3.79E-06
A	AGT	0.06	-0.5266824	0.1052269	9.66E-07
C	T	0.01	-1.022727	0.2213681	5.68E-06
T	TG	0.02	-0.8707977	0.1779436	1.63E-06
TGTGTGTGA	T	0.02	-0.9663073	0.2058495	4.07E-06
A	G	0.02	-0.7927789	0.1763536	9.84E-06
G	A	0.02	-0.8366581	0.1794502	4.70E-06
T	G	0.02	-0.7927789	0.1763536	9.84E-06
G	A	0.02	-1.11517	0.2084706	1.82E-07
T	C	0.02	-0.7927789	0.1763536	9.84E-06
C	T	0.02	-0.7927789	0.1763536	9.84E-06
C	T	0.02	-0.7927789	0.1763536	9.84E-06
CA	C	0.02	-0.7927789	0.1763536	9.84E-06
C	T	0.02	-0.7927789	0.1763536	9.84E-06
G	T	0.02	-0.7927789	0.1763536	9.84E-06
G	A	0.02	-0.7927789	0.1763536	9.84E-06
C	G	0.02	-0.7927789	0.1763536	9.84E-06
C	T	0.02	-0.7927789	0.1763536	9.84E-06
GCACACA	G	0.02	-0.7363404	0.1584229	5.01E-06
A	G	0.01	-1.189238	0.2461689	2.18E-06
AACCT	A	0.01	-1.121529	0.232996	2.36E-06
C	T	0.14	0.353982	0.07113645	1.11E-06
T	C	0.14	0.3481423	0.0707695	1.45E-06
G	A	0.14	0.3481423	0.0707695	1.45E-06
T	C	0.14	0.353982	0.07113645	1.11E-06
C	T	0.14	0.353982	0.07113645	1.11E-06
G	A	0.14	0.3457084	0.0709074	1.77E-06
TG	T	0.14	0.3438598	0.07144518	2.37E-06
A	G	0.14	0.3454738	0.07148365	2.16E-06
T	G	0.14	0.3531592	0.07115826	1.18E-06
C	T	0.14	0.3481423	0.0707695	1.45E-06
A	G	0.14	0.3481423	0.0707695	1.45E-06
G	A	0.14	0.3481423	0.0707695	1.45E-06
A	G	0.14	0.3481423	0.0707695	1.45E-06
T	TG	0.14	0.3544026	0.07124865	1.12E-06
T	A	0.14	0.3481423	0.0707695	1.45E-06
C	T	0.14	0.353982	0.07113645	1.11E-06
C	T	0.14	0.353982	0.07113645	1.11E-06

T	C	0.14	0.353982	0.07113645	1.11E-06
C	T	0.14	0.3481423	0.0707695	1.45E-06
T	C	0.14	0.3493267	0.07087466	1.38E-06
T	C	0.14	0.3530592	0.07174971	1.44E-06
A	G	0.14	0.3434048	0.07101433	2.13E-06
T	G	0.14	0.3481423	0.0707695	1.45E-06
T	C	0.14	0.3522611	0.07100658	1.19E-06
T	C	0.14	0.3481423	0.0707695	1.45E-06
T	C	0.14	0.3595954	0.07079844	6.80E-07
T	C	0.14	0.3481423	0.0707695	1.45E-06
A	C	0.14	0.3481423	0.0707695	1.45E-06
G	A	0.14	0.353982	0.07113645	1.11E-06
G	A	0.03	-0.6196271	0.1368	8.48E-06
C	T	0.03	-0.6905388	0.143959	2.55E-06
T	C	0.03	-0.6571654	0.140449	4.36E-06
T	C	0.03	-0.6571654	0.140449	4.36E-06
T	C	0.03	-0.732566	0.1569666	4.60E-06
A	G	0.03	-0.732566	0.1569666	4.60E-06
T	C	0.03	-0.7419174	0.1592167	4.75E-06
A	G	0.03	-0.745688	0.1547852	2.32E-06
A	AT	0.02	-0.7788183	0.1699327	6.69E-06
C	T	0.02	-0.7513958	0.1628919	5.86E-06
G	A	0.03	-0.6953112	0.1546514	9.82E-06
T	A	0.07	-0.4353963	0.0951204	6.86E-06
G	C	0.02	-0.9520175	0.1998703	2.98E-06
A	AT	0.11	-0.3525894	0.07815864	9.18E-06
C	T	0.05	-0.5218541	0.1143711	7.32E-06
C	T	0.05	-0.5187789	0.1151619	9.45E-06
AAAAT	A	0.05	-0.544045	0.1150932	3.51E-06
C	CT	0.07	-0.4291826	0.09174706	4.38E-06
A	G	0.08	0.4017235	0.08796173	7.18E-06
G	C	0.36	0.238825	0.05187539	6.10E-06
A	G	0.01	-0.9633913	0.2066517	4.71E-06
G	A	0.02	-0.9126504	0.1946271	4.16E-06
C	T	0.04	-0.523745	0.1126532	4.98E-06
T	C	0.2	0.2891658	0.05835889	1.22E-06
A	ATG	0.18	-0.3465983	0.06681739	4.03E-07
G	A	0.2	-0.2793507	0.05904464	3.44E-06
GAA	G	0.02	-0.7812722	0.1697207	6.12E-06
G	A	0.03	-0.7069027	0.1487745	3.14E-06
T	C	0.03	-0.7123857	0.1577781	9.03E-06
T	C	0.03	-0.7083055	0.1569856	9.16E-06
G	A	0.03	-0.7083055	0.1569856	9.16E-06
C	T	0.03	-0.7083055	0.1569856	9.16E-06
A	G	0.03	-0.7083055	0.1569856	9.16E-06
C	G	0.03	-0.7083055	0.1569856	9.16E-06
T	C	0.03	-0.7083055	0.1569856	9.16E-06
A	G	0.03	-0.7083055	0.1569856	9.16E-06
A	T	0.03	-0.7083055	0.1569856	9.16E-06
C	T	0.04	-0.5205105	0.1079278	2.27E-06

A	G	0.4	0.2300997	0.05079368	8.45E-06
G	A	0.39	-0.2228267	0.04934594	9.01E-06
G	C	0.39	-0.2288903	0.04937135	5.28E-06
C	T	0.4	-0.2289953	0.04907438	4.62E-06
G	A	0.39	-0.2394618	0.04906047	1.73E-06
C	A	0.4	-0.2289953	0.04907438	4.62E-06
A	G	0.02	-0.8070969	0.1787151	8.99E-06
C	T	0.02	-0.8489405	0.1674048	7.06E-07
G	C	0.07	-0.428815	0.09503583	9.15E-06
G	A	0.01	-1.071798	0.2246464	2.87E-06
G	A	0.01	-0.9664665	0.2136297	8.68E-06
G	A	0.01	-0.9664665	0.2136297	8.68E-06
C	G	0.01	-0.9664665	0.2136297	8.68E-06
A	G	0.01	-1.081977	0.233527	5.35E-06
G	A	0.02	-0.8424688	0.1495083	4.29E-08
C	T	0.02	-0.9495417	0.203171	4.47E-06
C	T	0.02	-0.9495417	0.203171	4.47E-06
G	A	0.01	-1.249824	0.2464452	7.05E-07
C	T	0.02	-0.7583649	0.1553423	1.72E-06
C	G	0.01	-1.129082	0.2467617	6.92E-06
C	T	0.02	-0.7798785	0.1650448	3.54E-06
G	A	0.02	-0.7960144	0.1690945	3.83E-06
G	A	0.03	-0.5813611	0.1255972	5.46E-06
G	GT	0.16	-0.3190206	0.06734408	3.35E-06
A	C	0.03	-0.71299	0.1580493	9.18E-06
A	G	0.17	-0.2992131	0.06581515	7.87E-06
G	A	0.03	-0.7237977	0.1414439	5.66E-07
C	T	0.05	-0.5571993	0.1160535	2.50E-06
AAT	A	0.01	-1.096766	0.2325114	3.67E-06
G	A	0.02	-0.7586752	0.168684	9.75E-06
G	A	0.01	-1.04756	0.231994	9.01E-06
G	C	0.01	-0.9620326	0.2095982	6.49E-06
T	TA	0.02	-0.9110107	0.1984907	6.50E-06
T	C	0.09	-0.384305	0.08442973	7.68E-06
C	T	0.09	-0.384305	0.08442973	7.68E-06
C	CGTGTGT	0.03	-0.7090214	0.1551882	7.13E-06
T	TTTTA	0.03	0.6968463	0.153996	8.64E-06
G	A	0.01	-1.170327	0.2484662	3.78E-06
A	G	0.01	-1.296595	0.2558173	7.15E-07
T	A	0.01	-1.212529	0.2571776	3.71E-06
T	C	0.01	-1.178948	0.2482246	3.17E-06
C	T	0.03	-0.7346132	0.1625766	8.89E-06
C	G	0.01	-1.082885	0.2398136	9.01E-06
G	GTC	0.33	0.2567486	0.05695604	9.32E-06
C	CAT	0.09	-0.4795578	0.09724678	1.37E-06
A	G	0.04	0.6324117	0.1371394	5.90E-06
T	G	0.02	0.8550248	0.1893105	8.97E-06
C	T	0.37	0.2480394	0.05521116	9.96E-06
G	A	0.37	0.2524717	0.05494488	6.34E-06
A	G	0.37	0.2513433	0.05515647	7.51E-06

C	G	0.01	-1.243461	0.2673424	4.94E-06
C	T	0.02	-0.9372578	0.2014438	4.90E-06
A	G	0.02	-1.002114	0.2057399	1.81E-06
C	T	0.02	-0.9931295	0.2013155	1.36E-06
T	C	0.02	-1.05317	0.2055023	5.45E-07
G	A	0.02	-0.9931295	0.2013155	1.36E-06
G	A	0.02	-0.9196422	0.1977982	4.98E-06
A	G	0.04	-0.5873782	0.13024	9.23E-06
C	G	0.11	-0.3790593	0.08266948	6.62E-06
T	C	0.11	-0.3821514	0.08481625	9.41E-06
G	A	0.11	-0.3773468	0.08316871	8.19E-06
T	C	0.11	-0.3753635	0.08355943	9.98E-06
T	C	0.11	-0.3753635	0.08355943	9.98E-06
T	C	0.04	-0.6122599	0.1355395	8.94E-06
A	G	0.11	-0.3838829	0.08238859	4.76E-06
A	C	0.11	-0.3800443	0.08331225	7.35E-06
C	G	0.11	-0.391206	0.08445523	5.38E-06
G	A	0.11	-0.3799949	0.08440802	9.56E-06
T	C	0.11	-0.3936177	0.08460593	4.91E-06
C	T	0.16	-0.3228981	0.07023845	6.28E-06
C	T	0.16	-0.320675	0.07079318	8.46E-06
T	C	0.02	0.8718167	0.1878404	5.16E-06
C	A	0.02	-0.979351	0.2114639	5.40E-06
G	GTGTT	0.19	-0.2993805	0.06598387	8.19E-06
G	A	0.09	-0.4169945	0.09282172	9.97E-06
G	A	0.09	-0.436607	0.09343258	4.48E-06
A	G	0.09	-0.4377655	0.09319693	4.01E-06
GC	G	0.09	-0.4274792	0.09304199	6.36E-06
A	T	0.09	-0.4169945	0.09282172	9.97E-06
C	G	0.09	-0.4377655	0.09319693	4.01E-06
AATC	A	0.09	-0.4435025	0.09482196	4.39E-06
A	C	0.09	-0.4280469	0.09354526	6.91E-06
TA	T	0.09	-0.4527077	0.0968377	4.44E-06
C	T	0.02	0.9363708	0.2035712	6.21E-06
C	T	0.01	-1.10994	0.2436124	7.53E-06
C	A	0.09	-0.4720269	0.09601431	1.47E-06
G	GGTGTGT	0.01	1.211965	0.2589096	4.32E-06
T	A	0.32	-0.2937591	0.05872062	9.77E-07
T	C	0.04	0.6323604	0.1349304	4.21E-06
T	A	0.04	0.6323604	0.1349304	4.21E-06
G	A	0.04	0.6261358	0.1338255	4.36E-06
T	C	0.04	0.6323604	0.1349304	4.21E-06
T	A	0.04	0.6323604	0.1349304	4.21E-06
C	A	0.04	0.6323604	0.1349304	4.21E-06
G	A	0.04	0.6323604	0.1349304	4.21E-06
T	C	0.04	0.6323604	0.1349304	4.21E-06
T	C	0.04	0.6323604	0.1349304	4.21E-06
C	A	0.04	0.6323604	0.1349304	4.21E-06
T	C	0.04	0.6323604	0.1349304	4.21E-06
C	T	0.04	0.6261358	0.1338255	4.36E-06

G	GA	0.04	0.6323604	0.1349304	4.21E-06
C	T	0.42	-0.2611761	0.05183571	8.24E-07
A	G	0.37	-0.2672118	0.05587711	2.73E-06
G	T	0.48	-0.2399827	0.05299348	8.51E-06
G	C	0.4	-0.2481043	0.05459627	7.94E-06
C	T	0.4	-0.2615339	0.05470358	2.74E-06
C	T	0.41	-0.2484557	0.0549093	8.65E-06
T	C	0.01	1.124309	0.2446489	6.33E-06
C	A	0.08	-0.4660551	0.1033103	9.18E-06
G	T	0.12	-0.3864986	0.08159431	3.35E-06
G	C	0.12	-0.3968424	0.08400127	3.55E-06
C	T	0.12	-0.373992	0.08145114	6.44E-06
T	C	0.12	-0.373992	0.08145114	6.44E-06
G	A	0.12	-0.373992	0.08145114	6.44E-06
A	G	0.12	-0.373992	0.08145114	6.44E-06
A	G	0.12	-0.3670859	0.08153579	9.55E-06
G	A	0.02	1.032206	0.2105323	1.56E-06
C	T	0.01	-1.22763	0.2551075	2.38E-06
TTGTGTGTG	T	0.06	-0.53082	0.1127979	3.86E-06
G	A	0.06	-0.5098634	0.1079003	3.53E-06
C	T	0.06	-0.5098634	0.1079003	3.53E-06
T	C	0.06	-0.5098634	0.1079003	3.53E-06
C	T	0.06	-0.5098634	0.1079003	3.53E-06
G	A	0.06	-0.4908099	0.1074826	7.20E-06
G	T	0.06	-0.4872882	0.1069568	7.54E-06
C	G	0.06	-0.4908099	0.1074826	7.20E-06
G	A	0.06	-0.4908099	0.1074826	7.20E-06
G	A	0.06	-0.4908099	0.1074826	7.20E-06
TATCCATCCATCCATC	T	0.33	-0.2860138	0.05900798	2.02E-06
C	T	0.42	0.2537032	0.05405353	4.08E-06
A	C	0.39	0.2486484	0.0540759	6.26E-06
G	A	0.02	-0.3829945	0.0849549	9.26E-06
C	CACCT	0.02	-0.4333268	0.09007351	2.38E-06
C	T	0.02	-0.3965336	0.08149097	1.84E-06
T	C	0.01	-0.4528337	0.09896558	6.88E-06
T	G	0.02	-0.3965336	0.08149097	1.84E-06
A	G	0.01	-0.5019949	0.1117596	9.95E-06
A	AAAGAG	0.03	-0.3061912	0.06747268	8.13E-06
G	A	0.02	-0.3744747	0.08096701	5.52E-06
G	A	0.02	-0.4347286	0.08915616	1.76E-06
A	G	0.01	-0.4623467	0.09863264	4.17E-06
T	TA	0.37	-0.1109272	0.02446781	8.29E-06
T	TGATAGATAGATA	0.02	-0.4136982	0.08286749	1.02E-06
C	T	0.01	-0.5111948	0.1121339	7.41E-06
G	T	0.01	-0.4053524	0.08859112	6.88E-06
T	TACACACACACACAC	0.02	-0.4469652	0.08763819	6.10E-07
T	G	0.06	-0.2212688	0.045972	2.35E-06
C	T	0.06	-0.2212688	0.045972	2.35E-06
G	A	0.04	-0.278202	0.05772009	2.28E-06
T	C	0.06	-0.2212688	0.045972	2.35E-06

A	G	0.04	-0.278202	0.05772009	2.28E-06
A	G	0.06	-0.2212688	0.045972	2.35E-06
C	T	0.06	-0.2304984	0.04632448	1.10E-06
A	G	0.06	-0.216119	0.04578015	3.59E-06
C	A	0.05	-0.2311502	0.04802814	2.36E-06
G	A	0.05	-0.237021	0.04825355	1.49E-06
C	G	0.05	-0.2297071	0.04850001	3.35E-06
C	T	0.06	-0.2380376	0.04707426	7.51E-07
G	A	0.01	-0.4694634	0.1018068	5.87E-06
T	C	0.02	-0.3361837	0.07314959	6.29E-06
A	G	0.02	-0.3546586	0.07410232	2.66E-06
T	C	0.02	-0.3354631	0.07302435	6.35E-06
G	A	0.02	-0.3354631	0.07302435	6.35E-06
C	A	0.02	-0.3546586	0.07410232	2.66E-06
T	C	0.02	-0.3546586	0.07410232	2.66E-06
C	T	0.02	-0.3354631	0.07302435	6.35E-06
ATCTGAC	A	0.02	-0.3546586	0.07410232	2.66E-06
G	C	0.02	-0.3354631	0.07302435	6.35E-06
C	T	0.02	-0.3573351	0.07612959	4.06E-06
AAT	A	0.02	-0.3354631	0.07302435	6.35E-06
G	A	0.02	-0.3354631	0.07302435	6.35E-06
C	T	0.02	-0.3354631	0.07302435	6.35E-06
G	A	0.02	-0.3546586	0.07410232	2.66E-06
G	A	0.02	-0.3354631	0.07302435	6.35E-06
A	AT	0.02	-0.3546586	0.07410232	2.66E-06
A	G	0.02	-0.3354631	0.07302435	6.35E-06
G	C	0.02	-0.3354631	0.07302435	6.35E-06
C	T	0.02	-0.3354631	0.07302435	6.35E-06
C	T	0.02	-0.3354631	0.07302435	6.35E-06
C	A	0.02	-0.3354631	0.07302435	6.35E-06
G	A	0.02	-0.3713095	0.07508705	1.27E-06
C	CGT	0.04	-0.2823977	0.05841381	2.13E-06
A	AT	0.11	-0.1610104	0.03562737	8.82E-06
G	A	0.03	-0.3299112	0.06761532	1.73E-06
A	G	0.01	-0.4857669	0.09687291	9.18E-07
C	T	0.01	-0.4857669	0.09687291	9.18E-07
T	G	0.07	-0.2119845	0.04307058	1.42E-06
C	T	0.07	-0.2119845	0.04307058	1.42E-06
C	A	0.02	-0.4045137	0.08948392	8.78E-06
T	C	0.32	0.1042092	0.0231188	9.29E-06
G	T	0.47	0.1032369	0.02185721	3.55E-06
TTC	T	0.33	0.1063429	0.02319964	6.64E-06
CCTTTA	C	0.31	0.1066086	0.0234008	7.51E-06
G	A	0.31	0.1055081	0.02344549	9.60E-06
CT	C	0.31	0.1073025	0.02347497	7.03E-06
AT	A	0.31	0.1067482	0.02348319	7.85E-06
C	G	0.31	0.1087542	0.0235691	5.80E-06
T	C	0.31	0.109012	0.02349856	5.19E-06
A	C	0.31	0.109012	0.02349856	5.19E-06
T	C	0.31	0.1069839	0.02364402	8.61E-06

T	G	0.31	0.1093774	0.0234498	4.63E-06
G	A	0.31	0.1086072	0.02357563	5.99E-06
A	G	0.31	0.1079702	0.02364937	7.20E-06
A	G	0.32	0.1081767	0.02329558	5.08E-06
ATT	A	0.32	0.1091914	0.02310802	3.52E-06
T	C	0.33	0.1066885	0.02301409	5.26E-06
G	C	0.32	0.1067386	0.02340002	7.33E-06
C	G	0.03	-0.2644972	0.05474444	2.16E-06
G	A	0.25	-0.118983	0.02611016	7.47E-06
T	C	0.02	-0.3968254	0.08427543	3.79E-06
A	AGT	0.06	-0.2330952	0.04738691	1.44E-06
C	T	0.01	-0.4741861	0.1047165	8.48E-06
T	C	0.02	-0.3742779	0.08022751	4.61E-06
A	G	0.02	-0.3394742	0.07485192	8.22E-06
C	A	0.01	-0.5043279	0.1089973	5.48E-06
G	A	0.02	-0.3851786	0.07118123	1.32E-07
TAC	T	0.02	-0.3741361	0.08068334	5.23E-06
G	C	0.01	-0.4717175	0.08981431	2.91E-07
T	TTC	0.03	-0.3160273	0.06802131	5.03E-06
CG	C	0.36	-0.103052	0.02262044	7.52E-06
G	A	0.03	-0.3013641	0.06628387	7.83E-06
C	T	0.01	-0.4726517	0.1032021	6.75E-06
A	C	0.1	-0.1869927	0.03782861	1.29E-06
AT	A	0.09	-0.1836287	0.03921247	4.26E-06
C	T	0.1	-0.1803432	0.03914724	5.99E-06
T	C	0.1	-0.1803432	0.03914724	5.99E-06
C	G	0.1	-0.1803432	0.03914724	5.99E-06
G	C	0.1	-0.1803432	0.03914724	5.99E-06
G	A	0.1	-0.1803432	0.03914724	5.99E-06
A	T	0.1	-0.1803432	0.03914724	5.99E-06
G	A	0.1	-0.1803432	0.03914724	5.99E-06
C	T	0.02	-0.3593038	0.07665105	4.17E-06
C	T	0.1	-0.1731559	0.03687554	4.02E-06
A	T	0.1	-0.1700923	0.03679246	5.57E-06
TA	T	0.1	-0.1725647	0.03713956	5.02E-06
C	T	0.1	-0.1731559	0.03687554	4.02E-06
G	GA	0.1	-0.1840235	0.03726549	1.32E-06
A	G	0.1	-0.1675265	0.03672462	7.32E-06
C	T	0.1	-0.1675265	0.03672462	7.32E-06
G	A	0.23	-0.1251796	0.02551939	1.54E-06
A	T	0.01	-0.4573534	0.09301164	1.45E-06
C	A	0.03	-0.3096785	0.06682744	5.31E-06
A	G	0.01	-0.4929733	0.10416	3.40E-06
G	A	0.01	-0.4954224	0.1040784	3.00E-06
T	C	0.01	-0.4954224	0.1040784	3.00E-06
G	A	0.01	-0.4954224	0.1040784	3.00E-06
G	T	0.21	-0.1229628	0.02649434	5.14E-06
C	G	0.21	-0.1244726	0.02656283	4.20E-06
C	T	0.02	-0.3447845	0.07551974	7.20E-06
TG	T	0.02	-0.355451	0.07759934	6.73E-06

A	G	0.02	-0.355451	0.07759934	6.73E-06
C	T	0.02	-0.3490528	0.07535909	5.36E-06
T	C	0.01	-0.5127372	0.1094842	4.25E-06
G	T	0.01	-0.5127372	0.1094842	4.25E-06
G	A	0.01	-0.5127372	0.1094842	4.25E-06
T	C	0.01	-0.5127372	0.1094842	4.25E-06
C	T	0.01	-0.5127372	0.1094842	4.25E-06
C	T	0.01	-0.5127372	0.1094842	4.25E-06
T	C	0.06	-0.2261303	0.04759585	3.13E-06
A	G	0.02	-0.4086336	0.08831082	5.47E-06
G	A	0.02	-0.4037293	0.08514906	3.27E-06
A	G	0.02	-0.4037293	0.08514906	3.27E-06
TCTTCCTTC	T	0.15	-0.1545861	0.03128131	1.29E-06
C	T	0.05	-0.2346378	0.04919852	2.88E-06
C	T	0.01	-0.4313406	0.09519719	8.38E-06
C	G	0.01	-0.4313406	0.09519719	8.38E-06
A	C	0.01	-0.4313406	0.09519719	8.38E-06
T	G	0.01	-0.4313406	0.09519719	8.38E-06
G	C	0.01	-0.4313406	0.09519719	8.38E-06
T	C	0.01	-0.4313406	0.09519719	8.38E-06
C	T	0.01	-0.4313406	0.09519719	8.38E-06
G	A	0.01	-0.4313406	0.09519719	8.38E-06
C	T	0.01	-0.4313406	0.09519719	8.38E-06
T	G	0.03	-0.3041607	0.06377832	2.88E-06
GCA	G	0.48	-0.1239218	0.02220853	5.62E-08
A	G	0.49	-0.126023	0.02208103	2.91E-08
TAGAG	T	0.43	0.1039013	0.02226306	4.58E-06
T	C	0.48	-0.1263599	0.02216398	3.01E-08
C	T	0.42	0.1021184	0.02233865	7.01E-06
G	A	0.42	0.1060036	0.02233436	3.20E-06
G	A	0.42	0.1013916	0.02243722	8.84E-06
C	T	0.47	-0.1154637	0.02207697	3.25E-07
T	C	0.49	-0.1220701	0.02211413	7.64E-08
T	C	0.48	-0.1184523	0.02200106	1.52E-07
AAGAG	A	0.01	-0.4209447	0.09366482	9.85E-06
A	G	0.02	-0.4257439	0.09081635	4.16E-06
G	A	0.07	-0.1914621	0.04213984	7.93E-06
T	G	0.14	-0.1486467	0.03091344	2.40E-06
A	G	0.04	-0.3031062	0.05989753	7.38E-07
C	CA	0.04	-0.2539188	0.05370993	3.48E-06
C	T	0.02	-0.355122	0.07525918	3.62E-06
G	C	0.01	-0.5309033	0.1048179	7.22E-07
C	T	0.01	-0.4370665	0.09514548	6.35E-06
T	A	0.01	-0.4432434	0.0945046	4.12E-06
C	T	0.01	-0.4432434	0.0945046	4.12E-06
A	T	0.01	-0.4432434	0.0945046	4.12E-06
G	T	0.08	-0.2146566	0.04455286	2.30E-06
G	C	0.05	-0.2566341	0.05511548	4.80E-06
G	A	0.06	-0.2371801	0.05217113	7.84E-06
A	G	0.06	-0.2371801	0.05217113	7.84E-06

C	A	0.03	-0.3473172	0.07019053	1.26E-06
T	G	0.02	-0.4379819	0.08914241	1.48E-06
A	G	0.03	-0.3743275	0.0811276	5.80E-06
C	T	0.02	-0.3959357	0.0820557	2.23E-06
C	A	0.02	-0.3959357	0.0820557	2.23E-06
G	A	0.15	-0.161425	0.03427201	3.77E-06
AAG	A	0.02	-0.3724846	0.08252957	9.06E-06
G	A	0.13	-0.200608	0.0368798	1.15E-07
G	A	0.13	-0.1911755	0.03758922	6.53E-07
A	G	0.13	-0.1911755	0.03758922	6.53E-07
A	C	0.06	-0.2627162	0.05470578	2.47E-06
C	T	0.06	-0.2627162	0.05470578	2.47E-06
C	T	0.06	-0.2627162	0.05470578	2.47E-06
T	C	0.06	-0.2627162	0.05470578	2.47E-06
C	T	0.06	-0.2627162	0.05470578	2.47E-06
C	A	0.07	-0.2478095	0.04928604	8.61E-07
T	C	0.06	-0.2590489	0.05145323	8.34E-07
G	A	0.08	-0.2098091	0.04638892	8.69E-06
T	C	0.06	-0.2702732	0.05496734	1.45E-06
G	C	0.06	-0.2554727	0.05217407	1.60E-06
A	G	0.47	-0.1098052	0.02331689	3.78E-06
G	A	0.27	0.1354872	0.02977654	7.70E-06
C	T	0.26	0.1468083	0.03063428	2.59E-06
G	C	0.13	-0.163261	0.03386401	2.27E-06
T	A	0.09	-0.212969	0.04588804	5.14E-06
G	A	0.02	-0.4529444	0.09813165	5.76E-06
T	C	0.21	-0.1465389	0.03229503	8.14E-06
G	A	0.02	-0.3626642	0.07629715	3.10E-06
A	G	0.03	-0.3897888	0.07001578	6.00E-08
C	T	0.03	-0.3897888	0.07001578	6.00E-08
T	C	0.03	-0.3897888	0.07001578	6.00E-08
A	G	0.03	-0.3897888	0.07001578	6.00E-08
C	A	0.03	-0.3897888	0.07001578	6.00E-08
C	T	0.03	-0.3897888	0.07001578	6.00E-08
C	T	0.03	-0.3325389	0.06780845	1.54E-06
A	C	0.03	-0.3897888	0.07001578	6.00E-08
TA	T	0.03	-0.3918596	0.07009569	5.33E-08
CTG	C	0.02	-0.4334004	0.08427211	4.96E-07
AT	A	0.02	-0.4860928	0.09543484	6.30E-07
C	A	0.01	-0.5105868	0.1063071	2.47E-06
G	C	0.01	-0.5007702	0.109088	6.44E-06
T	C	0.01	-0.5095881	0.106332	2.59E-06
G	C	0.01	-0.5007702	0.109088	6.44E-06
C	T	0.01	-0.5007702	0.109088	6.44E-06
T	G	0.01	-0.5007702	0.109088	6.44E-06
A	G	0.01	-0.5007702	0.109088	6.44E-06
A	AT	0.02	-0.4212322	0.08983645	4.15E-06
A	C	0.02	-0.4293917	0.08828763	1.86E-06
A	AT	0.02	-0.4581043	0.0896749	5.86E-07
T	C	0.02	-0.4293917	0.08828763	1.86E-06

T	C	0.02	-0.4293917	0.08828763	1.86E-06
C	T	0.02	-0.4293917	0.08828763	1.86E-06
T	G	0.02	-0.4293917	0.08828763	1.86E-06
A	G	0.02	-0.4293917	0.08828763	1.86E-06
G	A	0.02	-0.4225513	0.08981506	3.86E-06
A	G	0.02	-0.4350087	0.09442394	5.99E-06
C	A	0.02	-0.4096909	0.09113527	9.80E-06
C	T	0.02	-0.4293917	0.08828763	1.86E-06
G	A	0.02	-0.4293917	0.08828763	1.86E-06
T	G	0.02	-0.4293917	0.08828763	1.86E-06
G	A	0.02	-0.4293917	0.08828763	1.86E-06
C	T	0.02	-0.4293917	0.08828763	1.86E-06
G	T	0.02	-0.4293917	0.08828763	1.86E-06
TAA	T	0.02	-0.431714	0.08834361	1.67E-06
G	T	0.02	-0.4293917	0.08828763	1.86E-06
A	C	0.02	-0.4293917	0.08828763	1.86E-06
G	A	0.02	-0.4293917	0.08828763	1.86E-06
A	G	0.01	-0.5007702	0.109088	6.44E-06
G	A	0.01	-0.5007702	0.109088	6.44E-06
C	T	0.01	-0.5007702	0.109088	6.44E-06
G	A	0.01	-0.5007702	0.109088	6.44E-06
T	C	0.07	0.2404686	0.05086477	3.48E-06
T	TTTGTTG	0.07	0.2444615	0.05045545	2.03E-06
C	T	0.49	0.1158356	0.02570498	9.34E-06
G	C	0.01	-0.5472488	0.1053247	3.84E-07
G	A	0.05	-0.2588612	0.05465893	3.35E-06
G	A	0.05	-0.2611025	0.05522752	3.48E-06
G	A	0.05	-0.2588612	0.05465893	3.35E-06
T	G	0.05	-0.2588612	0.05465893	3.35E-06
T	C	0.34	-0.1181305	0.02598364	7.83E-06
AAAACCTT	A	0.33	-0.1192021	0.02615101	7.43E-06
G	C	0.33	-0.1210762	0.02611126	5.24E-06
G	A	0.33	-0.1185076	0.02607375	7.88E-06
G	GA	0.35	-0.1169236	0.02584346	8.63E-06
G	A	0.35	-0.1190225	0.02575491	5.62E-06
G	C	0.35	-0.1211135	0.02583227	4.15E-06
G	A	0.37	-0.1171034	0.02550679	6.43E-06
G	A	0.35	-0.1177227	0.02582492	7.42E-06
T	TA	0.35	-0.1177227	0.02582492	7.42E-06
G	A	0.35	-0.1202309	0.02581065	4.76E-06
G	C	0.3	-0.1209205	0.02671539	8.56E-06
T	A	0.1	-0.199314	0.0421631	3.49E-06
C	A	0.09	-0.194396	0.04313901	9.34E-06
A	G	0.11	-0.1921783	0.0404655	3.15E-06
A	G	0.11	-0.1921783	0.0404655	3.15E-06
AT	A	0.24	-0.1375581	0.03056571	9.58E-06
ATGTGTG	A	0.04	-0.3424916	0.06653714	4.86E-07
T	G	0.02	-0.4776544	0.09954312	2.52E-06
G	GT	0.37	-0.1163733	0.02492025	4.52E-06
C	CTTTT	0.01	-0.5493061	0.1210401	8.12E-06

A	G	0.02	-0.3754736	0.08002791	4.09E-06
A	T	0.01	-0.5140172	0.1144095	9.91E-06
CAATTCAATTTAATTT	C	0.01	-0.446898	0.09848295	8.13E-06
A	ATAGCAATC	0.02	-0.4623878	0.09879965	4.32E-06
C	T	0.29	-0.1228553	0.02719088	8.86E-06
C	T	0.29	-0.1247399	0.02726265	6.89E-06
T	A	0.29	-0.12564	0.02724764	5.88E-06
G	T	0.29	-0.1264567	0.02716319	4.82E-06
C	CCTGT	0.29	-0.1302181	0.0272014	2.65E-06
G	A	0.29	-0.1264567	0.02716319	4.82E-06
A	G	0.29	-0.1273533	0.02715449	4.13E-06
T	C	0.29	-0.127505	0.02714191	3.98E-06
A	T	0.29	-0.1264567	0.02716319	4.82E-06
GAT	G	0.29	-0.1255175	0.02732856	6.37E-06
G	A	0.29	-0.1264567	0.02716319	4.82E-06
T	C	0.29	-0.1264567	0.02716319	4.82E-06
T	G	0.29	-0.1264567	0.02716319	4.82E-06
C	G	0.29	-0.1238411	0.02717045	7.44E-06
T	C	0.29	-0.1264567	0.02716319	4.82E-06
C	G	0.29	-0.1298244	0.02720671	2.85E-06
C	A	0.29	-0.1264567	0.02716319	4.82E-06
A	G	0.29	-0.1264567	0.02716319	4.82E-06
G	A	0.29	-0.1273008	0.02714763	4.14E-06
A	T	0.29	-0.1264567	0.02716319	4.82E-06
A	T	0.29	-0.1261595	0.02712751	4.93E-06
TC	T	0.29	-0.125765	0.02736451	6.29E-06
G	A	0.29	-0.1248093	0.02726082	6.80E-06
A	G	0.3	-0.1251831	0.02718639	6.05E-06
TCA	T	0.02	-0.4009034	0.08650043	5.29E-06
C	CGTGTGTGT	0.02	-0.4009034	0.08650043	5.29E-06
G	T	0.47	-0.121326	0.02521887	2.38E-06
CGTGT	C	0.05	-0.2761507	0.05784626	2.82E-06
A	G	0.03	-0.3089783	0.06877223	9.91E-06
C	T	0.03	-0.3089783	0.06877223	9.91E-06
G	GAAA	0.05	-0.2688139	0.05604195	2.54E-06
G	C	0.21	-0.1364039	0.02920736	4.51E-06
C	T	0.21	-0.1350492	0.02924788	5.72E-06
T	C	0.11	-0.1685602	0.03747569	9.69E-06
¡TATGTGTGTGTGTGT	A	0.01	-0.4407323	0.08827465	1.02E-06
G	A	0.23	-0.1362221	0.02907842	4.23E-06
GA	G	0.03	-0.3316459	0.07322751	8.46E-06
G	A	0.04	-0.3033506	0.06385115	3.13E-06
A	C	0.04	-0.3033506	0.06385115	3.13E-06
C	A	0.04	-0.3033506	0.06385115	3.13E-06
G	A	0.04	-0.3033506	0.06385115	3.13E-06
C	T	0.04	-0.2962277	0.06444647	6.27E-06
T	G	0.04	-0.3033506	0.06385115	3.13E-06
C	T	0.04	-0.3033506	0.06385115	3.13E-06
T	C	0.04	-0.3033506	0.06385115	3.13E-06
G	T	0.04	-0.3033506	0.06385115	3.13E-06

G	A	0.01	-0.5750543	0.1215865	3.45E-06
C	T	0.05	-0.2437734	0.05419383	9.68E-06
A	AAAAT	0.32	0.1252834	0.0272872	6.42E-06
TTGTG	T	0.01	-0.5445413	0.1206111	9.00E-06
C	T	0.17	-0.1581891	0.03354513	3.67E-06
A	G	0.17	-0.1560292	0.03353033	4.87E-06
C	T	0.01	-0.4418068	0.09834688	9.93E-06
A	T	0.02	-0.4117918	0.09116931	8.92E-06
C	A	0.03	-0.3272326	0.07235949	8.71E-06
A	G	0.03	-0.3272326	0.07235949	8.71E-06
C	G	0.03	-0.3272326	0.07235949	8.71E-06
G	A	0.03	-0.3272326	0.07235949	8.71E-06
T	C	0.03	-0.3272326	0.07235949	8.71E-06
CA	C	0.02	-0.4935183	0.09275562	2.08E-07
A	G	0.12	0.1800833	0.03771724	2.81E-06
A	G	0.17	0.1603139	0.03215642	1.05E-06
T	C	0.17	0.1589388	0.0321883	1.32E-06
A	T	0.16	0.1585547	0.03289651	2.28E-06
A	C	0.16	0.1560251	0.03237196	2.28E-06
C	A	0.06	-0.2562136	0.05292176	2.07E-06
G	C	0.32	-0.1309663	0.02625842	1.04E-06
C	T	0.32	-0.1345412	0.0259124	3.91E-07
A	G	0.33	-0.1209002	0.02608589	5.29E-06
T	G	0.19	0.1399953	0.03072011	7.47E-06
T	C	0.19	0.1399536	0.03073048	7.57E-06
C	G	0.17	0.146897	0.03171499	5.36E-06
A	C	0.17	0.1535751	0.03222558	2.93E-06
AGT	A	0.17	0.154947	0.03220353	2.37E-06
GGCCGCCACACCACA	A	0.03	-0.7953939	0.1762663	9.82E-06
G	GA	0.03	-0.8926502	0.1868234	3.05E-06
C	A	0.03	0.8150078	0.1755849	5.59E-06
C	G	0.05	0.5947408	0.1304916	8.07E-06
T	C	0.05	0.5947408	0.1304916	8.07E-06
A	G	0.03	0.7352098	0.159829	6.71E-06
C	A	0.13	0.3968748	0.08754857	8.97E-06
G	GT	0.02	1.075716	0.215367	1.13E-06
C	G	0.14	0.4004589	0.0835627	2.86E-06
C	CT	0.2	-0.3285312	0.07272472	9.61E-06
G	T	0.2	-0.3323194	0.07263633	7.48E-06
T	G	0.02	1.067143	0.2356274	9.14E-06
G	C	0.02	1.067143	0.2356274	9.14E-06
T	C	0.43	0.3093421	0.05936609	4.10E-07
A	G	0.01	-1.262722	0.2715365	5.38E-06
T	A	0.01	1.223005	0.2442566	1.07E-06
C	T	0.01	1.104646	0.2316087	3.17E-06
G	A	0.02	1.055006	0.2270208	5.46E-06
G	A	0.02	1.00826	0.2015782	1.10E-06
G	A	0.01	1.127318	0.2490522	9.24E-06
C	T	0.01	1.127318	0.2490522	9.24E-06
G	A	0.05	0.6298373	0.1354339	5.38E-06

C	T	0.15	-0.3910364	0.08187952	3.08E-06
G	A	0.01	1.146303	0.2444053	4.51E-06
G	C	0.01	1.146303	0.2444053	4.51E-06
T	A	0.01	1.146303	0.2444053	4.51E-06
T	C	0.03	0.8122582	0.1744778	5.26E-06
G	T	0.03	0.8661322	0.1862394	5.37E-06
A	G	0.03	0.8661322	0.1862394	5.37E-06
C	T	0.17	0.3336426	0.07380482	9.48E-06
T	C	0.17	0.3544884	0.07348698	2.48E-06
A	C	0.22	0.3098173	0.06554145	3.83E-06
G	A	0.22	0.3019785	0.06593829	7.33E-06
A	G	0.25	0.2869655	0.06343403	9.35E-06
C	G	0.22	0.3019785	0.06593829	7.33E-06
T	C	0.17	0.3532446	0.07394355	3.06E-06
T	C	0.18	0.350615	0.07266746	2.47E-06
G	A	0.17	0.3427497	0.07348013	5.05E-06
C	T	0.21	0.334641	0.07061694	3.63E-06
C	T	0.21	0.3407235	0.07039594	2.30E-06
A	G	0.21	0.3167126	0.07022362	9.92E-06
T	A	0.21	0.3205861	0.06973596	6.80E-06
C	T	0.2	0.3251843	0.07061035	6.56E-06
TTG	T	0.21	0.321774	0.07012795	7.06E-06
T	TATACACACACGC	0.06	0.5155699	0.1112693	5.79E-06
CCTTTCTTTCTTT	C	0.06	0.5642334	0.1215655	5.60E-06
A	AAC	0.02	0.9178617	0.1947458	4.07E-06
G	T	0.02	1.000938	0.2209322	9.08E-06
G	T	0.02	1.000938	0.2209322	9.08E-06
G	AGGGAGGGAGGTAAC	0.03	0.7500161	0.1620799	5.95E-06
G	A	0.1	-0.4560686	0.09941946	7.09E-06
CCAGGTGAGGA	C	0.13	-0.4708485	0.08438784	6.75E-08
T	C	0.01	1.266911	0.2759726	6.99E-06
G	A	0.01	1.266911	0.2759726	6.99E-06
C	T	0.01	1.186104	0.2551329	5.41E-06
T	TA	0.02	-0.4050983	0.08967935	8.90E-06
C	T	0.04	-0.2993037	0.06486499	5.80E-06
T	C	0.1	0.1830395	0.04060408	9.27E-06
A	G	0.01	0.5115607	0.1117957	6.88E-06
G	A	0.28	0.1398094	0.02985489	4.26E-06
C	T	0.28	0.1398094	0.02985489	4.26E-06
GA	G	0.28	0.1377704	0.02984502	5.75E-06
G	A	0.27	0.13585	0.02984307	7.64E-06
T	TG	0.3	0.1320895	0.02859199	5.65E-06
C	T	0.35	0.1297026	0.02773258	4.38E-06
G	C	0.35	0.1272472	0.02758954	5.85E-06
A	G	0.35	0.1263704	0.02766952	7.15E-06
C	T	0.35	0.1263704	0.02766952	7.15E-06
G	T	0.35	0.1274547	0.02775763	6.41E-06
C	T	0.35	0.1280869	0.02767666	5.45E-06
A	G	0.35	0.1280869	0.02767666	5.45E-06
G	GTTTAA	0.23	0.1519064	0.03336777	7.62E-06

C	G	0.46	-0.1245082	0.02577051	2.16E-06
C	T	0.2	0.156252	0.03365233	5.09E-06
A	C	0.02	-0.4053198	0.0898483	9.14E-06
A	G	0.02	-0.4053198	0.0898483	9.14E-06
G	C	0.02	-0.4053198	0.0898483	9.14E-06
A	G	0.02	-0.4074536	0.08833495	5.84E-06
T	C	0.02	-0.4074536	0.08833495	5.84E-06
T	C	0.03	-0.3375105	0.07503408	9.68E-06
G	A	0.03	-0.3640293	0.07711012	3.59E-06
G	A	0.25	0.135889	0.02971787	6.97E-06
GT	G	0.15	-0.1663672	0.0352643	3.64E-06
C	G	0.17	0.1526894	0.03330481	6.61E-06
C	T	0.05	0.2863378	0.06294636	7.74E-06
C	A	0.47	-0.1211361	0.02663781	7.79E-06
T	A	0.09	-0.228538	0.04558908	9.25E-07
T	G	0.09	-0.2229496	0.04550984	1.58E-06
T	C	0.09	-0.228538	0.04558908	9.25E-07
G	A	0.09	-0.228538	0.04558908	9.25E-07
G	GT	0.09	-0.2116588	0.04635008	7.16E-06
A	C	0.09	-0.2265689	0.04628891	1.61E-06
A	G	0.09	-0.228538	0.04558908	9.25E-07
A	G	0.09	-0.228538	0.04558908	9.25E-07
T	C	0.09	-0.228538	0.04558908	9.25E-07
A	G	0.09	-0.228538	0.04558908	9.25E-07
T	C	0.09	-0.228538	0.04558908	9.25E-07
G	A	0.09	-0.228538	0.04558908	9.25E-07
G	A	0.09	-0.228538	0.04558908	9.25E-07
T	C	0.08	-0.2567152	0.04907418	3.23E-07
G	C	0.08	-0.2543341	0.04872738	3.42E-07
C	G	0.08	-0.2543341	0.04872738	3.42E-07
G	C	0.09	-0.2251805	0.0457098	1.39E-06
T	C	0.1	-0.2084601	0.04489786	5.10E-06
A	T	0.09	-0.2239953	0.0454466	1.38E-06
T	A	0.12	-0.186647	0.04086883	7.15E-06
T	A	0.14	0.1667405	0.03684644	8.59E-06
T	C	0.14	0.1724398	0.03779756	7.30E-06
T	A	0.14	0.1704964	0.03713451	6.42E-06
C	T	0.15	0.1670457	0.03576564	4.50E-06
A	G	0.14	0.1689422	0.03729012	8.40E-06
A	G	0.14	0.1702324	0.03747371	7.96E-06
G	A	0.14	0.1729872	0.03714286	4.78E-06
G	T	0.14	0.1712139	0.03764878	7.79E-06
T	C	0.14	0.1701789	0.03720596	6.93E-06
A	G	0.14	0.1680938	0.0371623	8.67E-06
A	C	0.14	0.1690635	0.03663828	5.79E-06
G	A	0.14	0.1692948	0.03727247	7.98E-06
A	C	0.14	0.1686681	0.03722051	8.36E-06
AT	A	0.14	0.1656191	0.03627148	7.18E-06
TTAAAG	T	0.14	0.1715909	0.03531221	1.90E-06
A	T	0.39	0.1150605	0.02528653	7.70E-06

T	C	0.43	0.1158146	0.02572869	9.54E-06
C	T	0.06	-0.2359291	0.05010291	3.79E-06
GCC	G	0.45	0.1039751	0.02245275	5.38E-06
T	G	0.02	-0.3719171	0.07997043	4.92E-06
C	T	0.02	-0.3830572	0.07868625	1.82E-06
TA	T	0.32	-0.1120258	0.02407614	4.87E-06
C	T	0.04	-0.2746312	0.06016888	7.23E-06
A	C	0.06	-0.2389294	0.05250532	7.69E-06
T	TA	0.01	-0.4044326	0.08850691	7.07E-06
A	G	0.08	-0.188758	0.04131772	7.10E-06
G	C	0.04	-0.2726481	0.05915622	5.93E-06
G	A	0.04	-0.2810516	0.05956548	3.63E-06
T	C	0.04	-0.2810516	0.05956548	3.63E-06
A	G	0.02	-0.3877369	0.08294711	4.42E-06
T	A	0.02	-0.3877369	0.08294711	4.42E-06
G	A	0.02	-0.3877369	0.08294711	4.42E-06
G	T	0.02	-0.3877369	0.08294711	4.42E-06
G	A	0.02	-0.3877369	0.08294711	4.42E-06
A	G	0.02	-0.3877369	0.08294711	4.42E-06
C	G	0.02	-0.3877369	0.08294711	4.42E-06
TACACACACAC	T	0.04	-0.2640557	0.0587362	9.79E-06
A	T	0.06	-0.2210929	0.04884522	8.55E-06
G	A	0.06	-0.2210929	0.04884522	8.55E-06
T	C	0.34	0.1229118	0.02500498	1.46E-06
T	C	0.34	0.1238158	0.02502988	1.26E-06
A	G	0.34	0.1250354	0.02496954	9.49E-07
A	G	0.37	0.1301195	0.02463005	2.50E-07
A	G	0.34	0.1265576	0.02515142	8.45E-07
A	G	0.46	0.1070752	0.02335163	6.59E-06
C	CTGTA	0.37	0.127742	0.02484449	4.99E-07
CT	C	0.46	0.1064339	0.02329966	7.12E-06
C	T	0.34	0.1238158	0.02502988	1.26E-06
T	G	0.46	0.1069458	0.02337629	6.90E-06
AT	A	0.31	0.1218987	0.0261581	4.72E-06
A	G	0.4	0.1226718	0.02412168	6.54E-07
G	A	0.34	0.1295193	0.02514411	4.77E-07
C	A	0.46	0.1138427	0.02338657	1.83E-06
A	G	0.34	0.1259564	0.02497625	8.01E-07
C	T	0.33	0.1180907	0.02531722	4.63E-06
C	A	0.33	0.1194866	0.0252026	3.27E-06
A	C	0.33	0.1186824	0.02510136	3.47E-06
C	T	0.33	0.1187734	0.02516797	3.61E-06
T	C	0.33	0.1166101	0.02515635	5.27E-06
G	C	0.33	0.1185034	0.02517665	3.82E-06
G	C	0.33	0.1172711	0.02517503	4.76E-06
T	A	0.33	0.1192677	0.02525676	3.57E-06
A	G	0.39	0.1145383	0.02407141	3.03E-06
C	T	0.33	0.1172561	0.02527319	5.18E-06
A	G	0.33	0.1189603	0.025142	3.42E-06
C	A	0.4	0.1173618	0.02380286	1.36E-06

A	C	0.33	0.1150063	0.02521196	7.32E-06
A	C	0.33	0.1150063	0.02521196	7.32E-06
A	G	0.33	0.1150063	0.02521196	7.32E-06
A	G	0.33	0.1137869	0.02527913	9.55E-06
A	T	0.34	0.1164401	0.02510304	5.20E-06
T	A	0.34	0.114181	0.02515284	8.07E-06
T	C	0.34	0.1229071	0.02513279	1.65E-06
T	G	0.41	0.1181118	0.02376143	1.13E-06
C	T	0.34	0.1164315	0.02517439	5.52E-06
G	A	0.34	0.1148004	0.02523296	7.72E-06
G	A	0.34	0.1151876	0.02516437	6.83E-06
T	G	0.34	0.1168642	0.02515912	5.05E-06
G	A	0.34	0.1164228	0.02506068	5.04E-06
TACACACACAC	T	0.04	-0.275454	0.06075061	8.26E-06
T	C	0.01	-0.4976821	0.1099027	8.48E-06
T	G	0.4	0.1151145	0.02489556	5.55E-06
G	A	0.05	-0.2487586	0.05446267	7.13E-06
T	C	0.46	-0.1134237	0.02450862	5.45E-06
T	C	0.31	-0.1208235	0.02673536	8.83E-06
G	A	0.31	-0.1208235	0.02673536	8.83E-06
A	T	0.31	-0.1208235	0.02673536	8.83E-06
A	G	0.31	-0.120918	0.0264926	7.24E-06
A	G	0.31	-0.1208235	0.02673536	8.83E-06
G	A	0.31	-0.1208235	0.02673536	8.83E-06
GA	G	0.39	-0.1158953	0.02446243	3.32E-06
C	T	0.01	-0.5813603	0.1169097	1.12E-06
TG	T	0.18	-0.1456216	0.0295067	1.33E-06
C	T	0.37	-0.1088292	0.0240309	8.47E-06
C	T	0.32	0.1144512	0.02539118	9.29E-06
TTATATATA	T	0.2	0.1380787	0.03002804	6.22E-06
CTGTG	C	0.07	-0.2315185	0.04511831	5.25E-07
G	T	0.01	-0.4724148	0.1022019	5.59E-06
C	T	0.02	-0.4692742	0.09535904	1.43E-06
G	A	0.11	-0.1732675	0.03756314	5.84E-06
G	A	0.1	-0.1790168	0.03906945	6.69E-06
TAA	T	0.11	-0.18107	0.03715123	1.78E-06
T	C	0.1	-0.172639	0.03818635	8.76E-06
T	C	0.1	-0.1756736	0.03838743	6.86E-06
T	C	0.02	-0.4368972	0.09345938	4.42E-06
C	T	0.16	0.1441866	0.03114148	5.40E-06
G	A	0.16	0.1435409	0.0311583	5.99E-06
G	C	0.16	0.1433673	0.03117092	6.19E-06
A	G	0.16	0.145625	0.03053955	2.89E-06
C	T	0.42	0.1008529	0.02151655	4.18E-06
C	T	0.46	0.1243772	0.02364359	2.80E-07
C	T	0.34	0.12821	0.02763307	5.17E-06
C	T	0.03	-0.3584786	0.07616027	3.82E-06
G	GA	0.01	-0.5088128	0.1098112	5.32E-06
G	A	0.08	-0.1991972	0.04220401	3.60E-06
A	T	0.08	-0.1942338	0.0423545	6.58E-06

C	T	0.08	-0.1949155	0.04243171	6.35E-06
A	G	0.08	-0.1905539	0.0417138	7.11E-06
C	CCTTT	0.2	0.141135	0.03123682	8.86E-06
T	C	0.22	0.1342126	0.02957099	8.10E-06
G	A	0.21	0.1363787	0.02994176	7.55E-06
C	T	0.21	0.1356552	0.03007366	9.16E-06
G	A	0.21	0.1390632	0.02989704	4.91E-06
C	T	0.21	0.1390242	0.02960239	4.01E-06
C	T	0.21	0.1356907	0.02990805	8.16E-06
T	TA	0.21	0.1404576	0.02984564	3.84E-06
T	C	0.21	0.1356907	0.02990805	8.16E-06
T	A	0.21	0.1356907	0.02990805	8.16E-06
C	T	0.21	0.1356907	0.02990805	8.16E-06
GA	G	0.21	0.142197	0.02989815	3.06E-06
G	C	0.21	0.1356907	0.02990805	8.16E-06
G	T	0.21	0.1356907	0.02990805	8.16E-06
G	A	0.21	0.1356907	0.02990805	8.16E-06
C	T	0.2	0.1367886	0.03013332	8.07E-06
T	C	0.19	0.141042	0.03037226	5.08E-06
G	A	0.21	0.1356907	0.02990805	8.16E-06
T	C	0.2	0.1371364	0.0304779	9.62E-06
T	C	0.03	-0.3063086	0.06664433	6.28E-06
C	G	0.03	-0.3149339	0.07010455	9.93E-06
T	TACACACAC	0.02	-0.429114	0.09341397	6.35E-06
C	T	0.07	-0.2170987	0.04644114	4.42E-06
C	T	0.07	-0.2361695	0.04567843	4.35E-07
G	T	0.07	-0.2361695	0.04567843	4.35E-07
C	A	0.07	-0.2361695	0.04567843	4.35E-07
G	T	0.07	-0.2361695	0.04567843	4.35E-07
C	T	0.07	-0.2361695	0.04567843	4.35E-07
A	T	0.07	-0.2361695	0.04567843	4.35E-07
G	A	0.07	-0.2361695	0.04567843	4.35E-07
C	A	0.07	-0.2361695	0.04567843	4.35E-07
G	A	0.07	-0.2241211	0.04739805	3.47E-06
A	C	0.07	-0.2298892	0.04587845	9.34E-07
G	A	0.07	-0.2240115	0.04611616	1.92E-06
T	A	0.07	-0.2361695	0.04567843	4.35E-07
T	C	0.07	-0.2361695	0.04567843	4.35E-07
C	T	0.07	-0.2361695	0.04567843	4.35E-07
C	A	0.07	-0.2361695	0.04567843	4.35E-07
G	A	0.07	-0.246777	0.04593698	1.61E-07
C	T	0.07	-0.2361695	0.04567843	4.35E-07
C	T	0.07	-0.2321817	0.0449085	4.35E-07
A	C	0.07	-0.2321817	0.0449085	4.35E-07
G	C	0.07	-0.222953	0.04433246	8.56E-07
T	A	0.07	-0.222953	0.04433246	8.56E-07
G	A	0.07	-0.222953	0.04433246	8.56E-07
G	A	0.07	-0.2321817	0.0449085	4.35E-07
G	A	0.08	-0.199885	0.04276038	4.42E-06
G	A	0.07	-0.2178506	0.04643094	4.09E-06

A	AT	0.07	-0.2116114	0.0447154	3.40E-06
T	C	0.07	-0.222953	0.04433246	8.56E-07
A	G	0.07	-0.222953	0.04433246	8.56E-07
C	G	0.07	-0.2321817	0.0449085	4.35E-07
C	T	0.07	-0.2321817	0.0449085	4.35E-07
T	G	0.08	-0.2218034	0.0445906	1.11E-06
A	C	0.08	-0.2218034	0.0445906	1.11E-06
G	C	0.08	-0.2218034	0.0445906	1.11E-06
G	T	0.08	-0.2218034	0.0445906	1.11E-06
C	T	0.07	-0.2162307	0.04479016	2.20E-06
G	A	0.08	-0.198274	0.04371263	8.20E-06
T	G	0.1	-0.172254	0.0377571	7.30E-06
C	T	0.08	-0.2218034	0.0445906	1.11E-06
C	CT	0.06	-0.2390445	0.04868301	1.50E-06
T	C	0.07	-0.2164745	0.0447883	2.14E-06
G	A	0.08	-0.2218034	0.0445906	1.11E-06
A	T	0.07	-0.2165118	0.044778	2.13E-06
C	T	0.08	-0.2218034	0.0445906	1.11E-06
T	C	0.08	-0.2218034	0.0445906	1.11E-06
C	T	0.01	-0.5954371	0.1158016	4.99E-07
A	G	0.07	-0.199679	0.04413712	8.64E-06
C	T	0.07	-0.2133062	0.04652034	6.60E-06
ACT	A	0.07	-0.2158221	0.04651328	5.17E-06
A	G	0.07	-0.2091003	0.04637671	9.24E-06
G	A	0.07	-0.2048457	0.04486289	7.18E-06
C	T	0.08	-0.2016889	0.04440691	7.99E-06
T	A	0.09	-0.208252	0.0408143	6.03E-07
G	T	0.06	-0.228267	0.05014527	7.64E-06
C	G	0.1	-0.1859926	0.04016881	5.40E-06
T	TAC	0.09	-0.1971761	0.04249376	5.16E-06
A	G	0.01	-0.5355044	0.1122461	2.86E-06
C	A	0.01	-0.5707921	0.1070306	1.96E-07
C	T	0.01	-0.4917816	0.09998867	1.44E-06
C	T	0.01	-0.5138516	0.114059	9.39E-06
T	C	0.01	-0.5143378	0.1144202	9.81E-06
A	T	0.03	-0.317511	0.07010664	8.46E-06
CAT	C	0.02	-0.4081858	0.08068572	7.43E-07
T	C	0.06	-0.2300486	0.05008793	6.37E-06
T	A	0.06	-0.2362309	0.05029336	4.00E-06
T	C	0.05	-0.2382838	0.05071158	3.96E-06
C	A	0.06	-0.2199258	0.04832385	7.67E-06
C	A	0.06	-0.2193204	0.04870098	9.46E-06
TC	T	0.06	-0.2337117	0.04592214	6.42E-07
T	C	0.05	-0.2423865	0.05208943	4.87E-06
A	G	0.05	-0.2507057	0.04983815	8.51E-07
T	A	0.05	-0.2362487	0.05245335	9.44E-06
G	A	0.04	-0.3059511	0.06463914	3.39E-06
A	G	0.04	-0.3038762	0.06348435	2.66E-06
A	G	0.04	-0.3038762	0.06348435	2.66E-06
T	C	0.04	-0.3038762	0.06348435	2.66E-06

G	A	0.04	-0.3088568	0.06111388	7.61E-07
G	A	0.12	-0.1696595	0.03714193	7.12E-06
AGT	A	0.1	-0.1858391	0.04021808	5.63E-06
C	A	0.03	-0.3774176	0.07305832	4.44E-07
C	T	0.03	-0.346745	0.07031492	1.36E-06
C	A	0.06	-0.2285234	0.05028814	7.90E-06
G	C	0.01	-0.5419063	0.1139205	3.05E-06
C	T	0.44	-0.1094356	0.02361615	5.31E-06
C	T	0.02	-0.4073851	0.08767165	5.01E-06
A	G	0.04	-0.3175203	0.06540635	1.94E-06
CGTGTGTGT	C	0.04	-0.312105	0.06641591	3.96E-06
G	A	0.05	-0.3043901	0.06331263	2.41E-06
A	G	0.05	-0.3043901	0.06331263	2.41E-06
C	T	0.05	-0.3043901	0.06331263	2.41E-06
C	T	0.05	-0.3043901	0.06331263	2.41E-06
C	T	0.05	-0.2999515	0.06185465	1.99E-06
T	C	0.04	-0.2865619	0.0630894	7.98E-06
T	G	0.04	-0.2906576	0.06263539	5.16E-06
C	T	0.04	-0.3018674	0.06289239	2.50E-06
G	A	0.04	-0.2906576	0.06263539	5.16E-06
C	T	0.04	-0.2906576	0.06263539	5.16E-06
T	TAAC	0.04	-0.2906576	0.06263539	5.16E-06
A	G	0.04	-0.3103965	0.06495548	2.76E-06
G	T	0.04	-0.2906576	0.06263539	5.16E-06
C	T	0.04	-0.2906576	0.06263539	5.16E-06
G	C	0.04	-0.2906576	0.06263539	5.16E-06
T	C	0.19	0.1543471	0.03416419	8.88E-06
C	CG	0.02	0.3867542	0.08606544	9.87E-06
C	T	0.2	0.15273	0.03395792	9.70E-06
A	AACACACAC	0.06	-0.2721391	0.05728939	3.14E-06
A	G	0.39	-0.1231319	0.02696569	7.17E-06
CTTCCCTCCTTCCCT	C	0.11	0.1875506	0.0375942	1.04E-06
G	GGT	0.09	0.2352909	0.04862042	2.09E-06
C	T	0.46	-0.1185645	0.02570898	5.86E-06
AAAC	A	0.18	0.1662145	0.03638455	7.11E-06
T	C	0.38	-0.1267707	0.0268167	3.48E-06
A	G	0.35	-0.1221248	0.02692502	8.21E-06
C	G	0.29	-0.1374279	0.03026062	8.00E-06
C	T	0.37	0.1239621	0.02729889	8.02E-06
C	T	0.48	-0.1189761	0.02641679	9.44E-06
A	G	0.29	0.1323944	0.02941972	9.59E-06
A	C	0.43	-0.1236399	0.02707159	7.15E-06
C	T	0.24	0.1445361	0.03106459	4.88E-06
T	TTATCTATC	0.49	0.1239413	0.0255033	1.90E-06
C	CT	0.07	-0.2420766	0.05332832	8.08E-06
C	A	0.15	-0.1649836	0.03613192	7.18E-06
C	A	0.15	-0.170821	0.03617368	3.57E-06
TC	T	0.21	0.1508395	0.03357933	9.94E-06
C	CA	0.06	0.2545417	0.05528879	6.07E-06
T	G	0.14	0.1787846	0.0378469	3.54E-06

A	C	0.14	0.1718389	0.03755683	6.89E-06
C	T	0.31	0.1268232	0.02798701	8.36E-06
C	T	0.07	-0.2232829	0.049018	7.54E-06
G	C	0.26	-0.1352862	0.02978256	7.97E-06
G	C	0.26	-0.1352862	0.02978256	7.97E-06
G	A	0.01	0.5212031	0.1155499	9.16E-06
C	CT	0.16	-0.1654564	0.03454978	2.63E-06
A	ACC	0.2	0.1530685	0.03247047	3.70E-06
G	A	0.33	0.1258536	0.0273162	5.98E-06
T	C	0.05	-0.282132	0.06187212	7.38E-06
T	TGC	0.08	-0.2402848	0.04940692	1.87E-06
AGTCT	A	0.08	-0.2096467	0.04645998	9.09E-06
T	C	0.05	-0.2873196	0.06021062	2.84E-06
A	AT	0.04	-0.283454	0.06059284	4.36E-06
TA	T	0.1	-0.2185079	0.04288809	6.26E-07
A	T	0.2	-0.146729	0.03245602	8.76E-06
C	G	0.44	0.1221435	0.02569199	3.08E-06
C	T	0.44	0.122956	0.02564186	2.56E-06
GCACACA	G	0.33	-0.1363199	0.02882404	3.45E-06
T	C	0.43	0.1192305	0.02575277	5.41E-06
A	G	0.43	0.1228388	0.02676528	6.47E-06
C	A	0.14	0.1911681	0.04110265	4.92E-06
G	A	0.03	-0.3354327	0.07429412	8.99E-06
C	CA	0.05	-0.2527196	0.05576902	8.36E-06
GAGAC	G	0.22	0.1386493	0.03081294	9.61E-06
A	G	0.02	0.9401443	0.2070464	8.31E-06
C	T	0.02	0.9401443	0.2070464	8.31E-06
C	T	0.02	0.9735114	0.2103848	5.67E-06
C	T	0.02	0.9401443	0.2070464	8.31E-06
G	T	0.02	0.9401443	0.2070464	8.31E-06
C	T	0.02	0.9401443	0.2070464	8.31E-06
G	A	0.02	0.9401443	0.2070464	8.31E-06
G	A	0.02	0.9401443	0.2070464	8.31E-06
A	T	0.25	-0.2857301	0.06335888	9.51E-06
C	T	0.04	0.6232078	0.1363416	7.28E-06
G	A	0.48	-0.2575814	0.05548388	5.30E-06
A	G	0.1	0.4312615	0.09394152	6.67E-06
C	T	0.04	-0.6293936	0.1339949	4.15E-06
A	AGT	0.03	-0.7283613	0.1565041	5.04E-06
G	T	0.02	0.9516453	0.205615	5.65E-06
C	T	0.32	0.2776729	0.06010849	5.87E-06
G	A	0.32	0.2848469	0.06010135	3.43E-06
G	A	0.32	0.2826241	0.06006386	4.00E-06
G	C	0.33	0.2689314	0.05974072	9.85E-06
C	G	0.33	0.2786957	0.05932535	4.14E-06
A	C	0.34	0.2802787	0.05920771	3.52E-06
C	T	0.32	0.2762632	0.06016987	6.65E-06
C	T	0.33	0.2804387	0.05974375	4.21E-06
C	T	0.33	0.2752567	0.0597364	6.18E-06
G	A	0.33	0.2689314	0.05974072	9.85E-06

T	C	0.33	0.2689314	0.05974072	9.85E-06
G	A	0.33	0.2752567	0.0597364	6.18E-06
T	C	0.33	0.2689314	0.05974072	9.85E-06
C	T	0.33	0.2689314	0.05974072	9.85E-06
A	T	0.33	0.2689314	0.05974072	9.85E-06
TTG	T	0.1	-0.4327315	0.09260495	4.63E-06
G	A	0.19	-0.3190556	0.07065005	9.25E-06
C	CA	0.09	-0.4635795	0.100495	6.05E-06
A	T	0.01	1.218403	0.2478689	1.53E-06
C	T	0.01	1.312432	0.2565338	5.97E-07
T	C	0.23	-0.3190244	0.06516873	1.68E-06
A	G	0.28	0.2786881	0.06091118	7.14E-06
C	A	0.28	0.2908535	0.06076282	2.77E-06
A	G	0.28	0.2786881	0.06091118	7.14E-06
A	AT	0.29	0.273743	0.05979484	7.05E-06
C	T	0.28	0.2994368	0.06089536	1.52E-06
G	A	0.29	0.2944149	0.06096316	2.28E-06
G	A	0.11	0.4401269	0.09166123	2.59E-06
A	G	0.03	0.813758	0.1770549	6.51E-06
G	A	0.03	0.813758	0.1770549	6.51E-06
T	A	0.02	0.9504449	0.1965805	2.22E-06
G	A	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
T	C	0.02	1.043266	0.2091629	1.10E-06
AT	A	0.02	0.9434839	0.1989655	3.40E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
T	A	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
A	G	0.02	0.9504449	0.1965805	2.22E-06
G	A	0.02	0.9504449	0.1965805	2.22E-06
G	C	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
A	C	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9504449	0.1965805	2.22E-06
G	A	0.02	0.9504449	0.1965805	2.22E-06
G	A	0.02	0.9504449	0.1965805	2.22E-06
C	T	0.02	0.9448654	0.2036794	5.39E-06
C	T	0.02	0.9448654	0.2036794	5.39E-06
G	C	0.04	0.7655417	0.153446	1.09E-06
T	C	0.02	1.191602	0.2282103	3.60E-07
G	T	0.1	0.4545175	0.09431906	2.39E-06
C	T	0.1	0.455709	0.09593704	3.27E-06
G	A	0.07	0.5538499	0.1098845	8.56E-07
T	C	0.05	0.6312252	0.134483	4.22E-06
CT	C	0.06	0.562716	0.1212987	5.38E-06
C	T	0.06	0.5822043	0.1196027	1.91E-06
T	TACAC	0.06	0.5814927	0.1183093	1.54E-06
C	T	0.03	0.7866108	0.1717299	6.98E-06
CA	C	0.03	0.7866108	0.1717299	6.98E-06

G	A	0.21	-0.3197012	0.06999525	7.39E-06
C	T	0.32	-0.2930389	0.061522	3.08E-06
C	A	0.35	0.2849107	0.05927248	2.53E-06
G	GA	0.05	0.6027068	0.1283261	4.16E-06
A	G	0.02	-0.8428112	0.1866383	9.26E-06
T	C	0.01	-1.137622	0.2511903	8.75E-06
C	T	0.02	1.054921	0.2126819	1.25E-06
T	C	0.44	-0.2580622	0.05710782	9.14E-06
GAA	G	0.04	-0.6142317	0.1344313	7.34E-06
C	T	0.02	-0.8918865	0.1958506	7.84E-06
G	A	0.1	0.4565002	0.09515183	2.64E-06
C	T	0.09	0.4603488	0.0999741	6.27E-06
G	T	0.16	-0.3567367	0.07667841	5.07E-06
G	A	0.33	-0.2685659	0.05807697	5.75E-06
G	C	0.02	1.033114	0.2211583	4.66E-06
CTG	C	0.17	0.3638941	0.08037745	8.81E-06
TGATA	T	0.22	-0.3151053	0.06980777	9.34E-06
C	T	0.01	-1.060096	0.2313415	6.92E-06
A	T	0.01	-1.238457	0.262612	3.82E-06
AAAAGAAAAGAAAAA	T	0.11	0.4370274	0.08815033	1.26E-06
G	C	0.02	-0.9135662	0.1938328	3.87E-06
A	G	0.02	-0.9116694	0.1955015	4.84E-06
A	G	0.03	-0.7535287	0.1647202	7.06E-06
G	A	0.03	-0.7390953	0.1639962	9.50E-06
A	G	0.03	-0.7390953	0.1639962	9.50E-06
A	AACAC	0.01	-1.233181	0.2722944	8.63E-06
A	G	0.15	-0.3588954	0.07729987	5.21E-06
G	C	0.23	-0.3163722	0.06364107	1.16E-06
G	GA	0.02	-0.9013782	0.1990073	8.61E-06
A	G	0.07	-0.5094838	0.1064201	2.71E-06
C	T	0.01	-1.128897	0.2444023	5.80E-06
T	C	0.01	-1.186781	0.2460336	2.30E-06
G	A	0.03	-0.7868525	0.1748809	9.81E-06
G	A	0.13	-0.3642547	0.08073238	9.29E-06
C	G	0.13	-0.3694499	0.08075326	7.04E-06
G	T	0.13	-0.3705234	0.08082687	6.76E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
A	G	0.02	-0.8163855	0.1795425	7.97E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
ATATT	A	0.02	-0.8163855	0.1795425	7.97E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
C	A	0.02	-0.8163855	0.1795425	7.97E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
C	T	0.02	-0.8163855	0.1795425	7.97E-06
A	G	0.02	-0.8163855	0.1795425	7.97E-06
A	G	0.03	-0.8053308	0.1687252	2.90E-06
C	A	0.01	-1.198283	0.2639706	8.24E-06
T	C	0.01	-1.198283	0.2639706	8.24E-06
G	A	0.01	-1.198283	0.2639706	8.24E-06

C	T	0.01	-1.198283	0.2639706	8.24E-06
AATTTTATTTTATTTT	A	0.01	-1.244415	0.2577126	2.25E-06
C	CT	0.01	-1.231122	0.2605279	3.60E-06
A	G	0.02	-0.9017623	0.183529	1.52E-06
A	C	0.03	-0.8554325	0.1743983	1.58E-06
C	G	0.03	-0.8290499	0.1772732	4.48E-06
G	A	0.02	-0.9546275	0.185998	5.39E-07
C	T	0.02	-1.001118	0.2197689	7.68E-06
G	A	0.04	-0.6428973	0.1412053	7.76E-06
A	G	0.01	-1.225453	0.2686775	7.49E-06
T	C	0.01	-1.225453	0.2686775	7.49E-06
G	T	0.01	-1.225453	0.2686775	7.49E-06
G	A	0.01	-1.225453	0.2686775	7.49E-06
G	A	0.01	-1.225453	0.2686775	7.49E-06
C	T	0.01	-1.225453	0.2686775	7.49E-06
G	A	0.17	-0.3178396	0.07057837	9.65E-06
A	C	0.02	-0.9643941	0.201267	2.66E-06
G	C	0.02	-1.078082	0.2132361	7.78E-07
C	T	0.02	-1.054009	0.2190366	2.43E-06
A	G	0.02	-1.054009	0.2190366	2.43E-06
C	G	0.04	-0.6571242	0.1436593	7.07E-06
G	C	0.07	-0.5264656	0.1133824	5.20E-06
C	T	0.06	-0.5334947	0.1155515	5.85E-06
A	G	0.09	-0.4450382	0.09736376	7.17E-06
C	T	0.1	-0.410292	0.09071564	8.86E-06
C	G	0.17	-0.36532	0.07473484	1.71E-06
C	T	0.17	-0.3496692	0.07493029	4.69E-06
GT	G	0.11	-0.4193803	0.08962887	4.43E-06
C	T	0.17	-0.3494297	0.07488426	4.70E-06
T	A	0.17	-0.3763101	0.07410141	6.99E-07
G	A	0.17	-0.3763101	0.07410141	6.99E-07
T	C	0.17	-0.3496692	0.07493029	4.69E-06
G	GACAC	0.13	-0.4057278	0.08407724	2.28E-06
T	G	0.1	-0.4181472	0.09234198	8.65E-06
A	G	0.09	-0.4755735	0.09508232	1.00E-06
G	T	0.3	-0.2831988	0.0603799	4.22E-06
C	A	0.15	-0.3881982	0.07789633	1.09E-06
G	A	0.1	-0.4689487	0.09181974	6.09E-07
G	C	0.1	-0.4745537	0.09294406	6.13E-07
A	T	0.09	-0.4653896	0.09762757	2.98E-06
A	G	0.09	-0.4653896	0.09762757	2.98E-06
A	G	0.09	-0.4760423	0.09776125	1.86E-06
T	C	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.09	-0.4653896	0.09762757	2.98E-06
A	G	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.09	-0.4656483	0.09765591	2.96E-06
A	T	0.09	-0.4653896	0.09762757	2.98E-06
T	C	0.09	-0.4653896	0.09762757	2.98E-06
C	T	0.09	-0.4653896	0.09762757	2.98E-06
T	C	0.09	-0.4653896	0.09762757	2.98E-06

G	A	0.09	-0.4653896	0.09762757	2.98E-06
C	T	0.09	-0.471633	0.09789582	2.36E-06
G	A	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.09	-0.4513193	0.09815271	6.36E-06
A	T	0.1	-0.4415258	0.09422459	4.30E-06
C	T	0.08	-0.4608764	0.1005022	6.72E-06
C	T	0.09	-0.4653896	0.09762757	2.98E-06
T	TG	0.09	-0.4801142	0.09787089	1.58E-06
C	G	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.09	-0.4653896	0.09762757	2.98E-06
A	G	0.09	-0.4653896	0.09762757	2.98E-06
A	AAAAT	0.08	-0.4950093	0.1003564	1.39E-06
C	T	0.09	-0.4606604	0.09801742	4.04E-06
T	C	0.09	-0.4653896	0.09762757	2.98E-06
A	G	0.09	-0.4653896	0.09762757	2.98E-06
G	C	0.09	-0.4692346	0.09781683	2.60E-06
C	T	0.09	-0.4653896	0.09762757	2.98E-06
CAATGT	C	0.09	-0.4801142	0.09787089	1.58E-06
G	T	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.08	-0.4618606	0.09893131	4.65E-06
GTTTCA	G	0.09	-0.4801142	0.09787089	1.58E-06
C	T	0.09	-0.4653896	0.09762757	2.98E-06
C	A	0.09	-0.4653896	0.09762757	2.98E-06
T	A	0.07	-0.6094728	0.1123843	1.30E-07
C	A	0.06	-0.5935481	0.1144422	4.16E-07
T	C	0.1	-0.4117668	0.09038134	7.66E-06
G	A	0.09	-0.4653896	0.09762757	2.98E-06
G	A	0.09	-0.4696334	0.09804276	2.68E-06
A	T	0.09	-0.4872627	0.09819449	1.21E-06
G	A	0.05	-0.6327219	0.1319857	2.64E-06
G	A	0.03	-0.739154	0.1592458	5.24E-06
C	A	0.03	-0.739154	0.1592458	5.24E-06
C	T	0.03	-0.739154	0.1592458	5.24E-06
A	G	0.03	-0.739154	0.1592458	5.24E-06
C	A	0.03	-0.7404797	0.1613223	6.59E-06
C	T	0.03	-0.7404797	0.1613223	6.59E-06
G	A	0.03	-0.7404797	0.1613223	6.59E-06
G	A	0.03	-0.7404797	0.1613223	6.59E-06
A	C	0.03	-0.7404797	0.1613223	6.59E-06
A	G	0.03	-0.7404797	0.1613223	6.59E-06
C	T	0.03	-0.7404797	0.1613223	6.59E-06
T	C	0.03	-0.7404797	0.1613223	6.59E-06
A	G	0.03	-0.7404797	0.1613223	6.59E-06
C	A	0.03	-0.7481361	0.1620746	5.87E-06
T	C	0.03	-0.7189961	0.1594353	9.38E-06
T	C	0.03	-0.7404797	0.1613223	6.59E-06
G	A	0.03	-0.7404797	0.1613223	6.59E-06
T	C	0.03	-0.7404797	0.1613223	6.59E-06
A	C	0.03	-0.7404797	0.1613223	6.59E-06
A	T	0.03	-0.7637187	0.1649501	5.52E-06

T	C	0.03	-0.7404797	0.1613223	6.59E-06
T	C	0.03	-0.7404797	0.1613223	6.59E-06
A	G	0.03	-0.7404797	0.1613223	6.59E-06
G	A	0.1	-0.4441095	0.09105263	1.79E-06
C	T	0.11	-0.4191364	0.08779091	2.88E-06
A	AG	0.11	-0.4191364	0.08779091	2.88E-06
G	C	0.11	-0.4191364	0.08779091	2.88E-06
G	A	0.11	-0.4227274	0.0879731	2.50E-06
G	A	0.11	-0.4243411	0.08774976	2.18E-06
G	A	0.1	-0.4095196	0.08834311	5.39E-06
T	G	0.11	-0.4191364	0.08779091	2.88E-06
G	A	0.11	-0.4191364	0.08779091	2.88E-06
A	G	0.11	-0.426325	0.08766664	1.92E-06
G	T	0.11	-0.4191364	0.08779091	2.88E-06
G	T	0.11	-0.4191364	0.08779091	2.88E-06
G	A	0.1	-0.445542	0.08806263	7.65E-07
C	T	0.1	-0.4127265	0.08822763	4.46E-06
G	A	0.1	-0.4256271	0.08814834	2.25E-06
A	T	0.08	-0.4559411	0.09916962	6.37E-06
T	TA	0.07	-0.4733412	0.1047821	9.07E-06
C	T	0.02	-0.8850193	0.1895004	4.61E-06
G	C	0.18	-0.3316031	0.07361454	9.59E-06
C	A	0.03	-0.7518585	0.1586718	3.39E-06
T	C	0.03	-0.920563	0.1653804	6.31E-08
G	C	0.02	-0.9878648	0.1854055	2.08E-07
T	A	0.03	-0.7260079	0.1442505	8.67E-07
T	A	0.02	-0.9151769	0.193625	3.58E-06
G	A	0.04	-0.619961	0.1363505	7.97E-06
T	C	0.41	-0.2561	0.05598161	7.05E-06
C	T	0.09	-0.4489035	0.0981741	7.12E-06
A	G	0.09	-0.4428476	0.09779636	8.65E-06
G	A	0.09	-0.4428476	0.09779636	8.65E-06
C	T	0.09	-0.4428476	0.09779636	8.65E-06
C	A	0.01	-1.232424	0.2634939	4.47E-06
A	C	0.36	0.2556126	0.05684666	9.94E-06
A	G	0.2	-0.3026487	0.06726897	9.83E-06
C	CAG	0.08	-0.4757094	0.1032556	6.11E-06
G	GTTT	0.1	-0.4220337	0.09382306	9.86E-06
T	TTTCC	0.07	-0.5505517	0.1068811	4.93E-07
A	C	0.01	-1.128209	0.2383457	3.47E-06
A	G	0.04	-0.6458989	0.1393904	5.43E-06
A	G	0.03	-0.7231078	0.1607588	9.87E-06
T	C	0.01	-1.169028	0.2578049	8.42E-06
A	T	0.01	-1.020908	0.2256848	8.83E-06
C	T	0.03	-0.8290685	0.1681914	1.41E-06
A	C	0.01	-1.370075	0.2522888	1.25E-07
G	A	0.03	-0.7615829	0.16812	8.59E-06
C	T	0.03	-0.7525603	0.1623723	5.40E-06
C	G	0.03	-0.6580495	0.1420863	5.49E-06
G	A	0.11	-0.1812438	0.04023133	9.39E-06

G	C	0.11	-0.1942624	0.04063628	2.73E-06
G	A	0.11	-0.1812438	0.04023133	9.39E-06
C	A	0.1	-0.1900802	0.0422905	9.83E-06
A	G	0.14	-0.1679928	0.03641051	5.81E-06
T	C	0.29	0.1325505	0.02823926	4.05E-06
T	TAA	0.29	0.1311118	0.02824151	5.11E-06
C	T	0.29	0.1307159	0.02833775	5.83E-06
AAAAAC	A	0.49	-0.1363362	0.02631497	4.13E-07
T	C	0.5	-0.1274843	0.02645698	2.30E-06
T	A	0.39	-0.1195574	0.02619099	7.22E-06
A	G	0.39	-0.1244506	0.02613613	2.98E-06
G	A	0.38	-0.1336724	0.02645336	7.64E-07
C	G	0.4	-0.123188	0.02665297	5.60E-06
A	G	0.39	-0.1207505	0.02624443	6.15E-06
A	G	0.36	-0.1292632	0.02663976	1.96E-06
C	G	0.36	-0.1251067	0.02657565	3.81E-06
A	C	0.36	-0.1242132	0.02667132	4.78E-06
G	A	0.28	-0.1305615	0.0281345	5.15E-06
C	T	0.46	0.1188039	0.02560498	5.17E-06
G	A	0.09	-0.2053705	0.04406991	4.72E-06
G	T	0.09	-0.2009705	0.04379129	6.48E-06
C	A	0.09	-0.2009705	0.04379129	6.48E-06
A	G	0.09	-0.2009705	0.04379129	6.48E-06
C	G	0.24	0.1416459	0.03014935	3.98E-06
C	T	0.03	-0.378178	0.08175582	5.51E-06
T	C	0.32	-0.1289946	0.0270849	2.97E-06
T	C	0.36	-0.1416898	0.02500279	3.59E-08
T	C	0.34	-0.1229237	0.02673979	6.26E-06
C	T	0.43	-0.114284	0.02533514	9.15E-06
A	G	0.33	-0.1232663	0.02684263	6.39E-06
A	G	0.19	-0.1486372	0.03227583	6.03E-06
G	A	0.26	-0.1303198	0.02866124	7.81E-06
A	G	0.44	0.122452	0.02604121	3.90E-06
T	G	0.14	0.1725267	0.03839181	9.86E-06
A	G	0.02	-0.4779945	0.1050262	7.67E-06
C	CT	0.07	-0.2288849	0.04966659	5.95E-06
TACTA	T	0.12	-0.2163856	0.03887539	6.03E-08
C	CA	0.12	-0.2002167	0.03866907	4.19E-07
T	C	0.12	-0.1998556	0.03853712	4.03E-07
A	T	0.12	-0.2030758	0.03857467	2.74E-07
C	A	0.02	-0.4266869	0.09238121	5.68E-06
G	T	0.24	-0.1329352	0.02940671	8.77E-06
T	G	0.27	-0.1364451	0.02839622	2.44E-06
C	T	0.26	-0.1366843	0.02876634	3.12E-06
A	T	0.16	-0.1560386	0.03468856	9.67E-06
T	TAC	0.1	-0.206957	0.0455026	7.77E-06
TTGTTGTTG	T	0.01	-0.6244533	0.1293171	2.19E-06
C	T	0.01	-0.5115595	0.1135941	9.46E-06
GCACACA	G	0.02	-0.9008441	0.1954895	6.28E-06
G	C	0.02	-1.027225	0.2220832	5.82E-06

T	C	0.12	-0.3986841	0.08481936	4.17E-06
A	G	0.02	-1.051471	0.2330312	9.55E-06
C	T	0.08	0.4613184	0.09884121	4.83E-06
CTCT	C	0.08	0.4807086	0.09837423	1.79E-06
A	T	0.07	0.4829807	0.1067032	8.98E-06
T	C	0.21	-0.3086366	0.06760156	7.57E-06
G	A	0.24	-0.3024082	0.06441613	4.28E-06
T	A	0.2	-0.3170281	0.07005058	9.01E-06
G	C	0.19	-0.3265931	0.07058118	5.77E-06
TTTTATTTA	T	0.18	-0.3518864	0.07295032	2.39E-06
G	A	0.23	-0.2980212	0.06605774	9.58E-06
C	T	0.23	-0.3016955	0.06606311	7.53E-06
G	A	0.23	-0.3016955	0.06606311	7.53E-06
A	G	0.26	-0.2907637	0.06262796	5.39E-06
A	C	0.26	-0.2950826	0.06333524	5.01E-06
TG	T	0.27	-0.2914276	0.06377206	7.43E-06
G	T	0.38	0.2560294	0.05656635	8.99E-06
GT	G	0.1	-0.4335388	0.093496	5.53E-06
A	G	0.39	-0.2680126	0.05941807	9.62E-06
G	C	0.39	-0.268064	0.05935282	9.38E-06
G	A	0.39	-0.2691812	0.05927527	8.42E-06
C	A	0.07	0.5015627	0.1076267	4.98E-06
T	C	0.1	0.4201225	0.09221804	7.90E-06
ATATAAG	A	0.08	0.4631452	0.09977491	5.41E-06
C	T	0.08	0.4703912	0.09932411	3.55E-06
C	T	0.1	0.4464416	0.09242758	2.32E-06
A	C	0.36	-0.2753368	0.05870663	4.36E-06
G	A	0.36	-0.2677865	0.05867689	7.63E-06
A	G	0.36	-0.2664017	0.05862001	8.30E-06
C	T	0.36	-0.2651457	0.05877973	9.61E-06
A	T	0.36	-0.2667805	0.05870445	8.30E-06
G	A	0.06	0.513972	0.1136119	9.08E-06
A	G	0.02	-0.9521218	0.1960339	2.05E-06
ATCAGCATCACCGCC	C	0.01	-1.152071	0.247439	5.08E-06
ATCT	A	0.31	0.2772551	0.05856559	3.58E-06
C	T	0.32	0.2670077	0.05780878	5.99E-06
C	CTG	0.32	0.2633862	0.05781912	7.91E-06
G	A	0.33	0.2775892	0.05771283	2.54E-06
A	G	0.33	0.2748865	0.05804761	3.56E-06
A	G	0.33	0.2748865	0.05804761	3.56E-06
A	G	0.33	0.2755462	0.05788136	3.18E-06
T	C	0.33	0.2654605	0.05780052	6.72E-06
G	C	0.09	-0.4458096	0.09524714	4.55E-06
A	G	0.1	-0.4386979	0.09420296	5.06E-06
A	G	0.1	-0.4386979	0.09420296	5.06E-06
G	A	0.1	-0.4386979	0.09420296	5.06E-06
T	A	0.25	-0.2940787	0.06366904	5.99E-06
A	C	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
G	GA	0.1	-0.4386979	0.09420296	5.06E-06

A	G	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
C	T	0.1	-0.4386979	0.09420296	5.06E-06
C	T	0.1	-0.4386979	0.09420296	5.06E-06
G	T	0.1	-0.4386979	0.09420296	5.06E-06
A	C	0.1	-0.4386979	0.09420296	5.06E-06
A	G	0.1	-0.4386979	0.09420296	5.06E-06
GT	G	0.1	-0.4386979	0.09420296	5.06E-06
A	G	0.09	-0.4410369	0.09630736	7.12E-06
G	T	0.1	-0.4456364	0.09439487	3.80E-06
A	G	0.1	-0.4456364	0.09439487	3.80E-06
G	A	0.1	-0.4386979	0.09420296	5.06E-06
C	T	0.1	-0.4115927	0.0909845	9.08E-06
G	C	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
T	A	0.1	-0.4386979	0.09420296	5.06E-06
A	AT	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.09	-0.4465423	0.0978557	7.64E-06
A	G	0.1	-0.4386979	0.09420296	5.06E-06
C	G	0.1	-0.4386979	0.09420296	5.06E-06
C	G	0.1	-0.4386979	0.09420296	5.06E-06
C	G	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
G	A	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4386979	0.09420296	5.06E-06
T	C	0.1	-0.4629202	0.09461448	1.74E-06
C	G	0.09	-0.460006	0.09646557	3.07E-06
G	T	0.1	-0.4449902	0.09438222	3.91E-06
A	G	0.11	-0.4149875	0.088656	4.55E-06
TA	T	0.26	-0.3234458	0.06708561	2.41E-06
G	GGGAA	0.39	-0.284812	0.05786018	1.52E-06
A	G	0.1	-0.4386979	0.09420296	5.06E-06
T	G	0.22	-0.292272	0.06471064	9.37E-06
T	G	0.31	-0.2873003	0.06124558	4.35E-06
A	T	0.31	-0.2800171	0.06126788	7.41E-06
A	T	0.31	-0.2884878	0.06137105	4.16E-06
G	T	0.3	-0.2822707	0.06103169	5.83E-06
G	A	0.31	-0.2827794	0.06103408	5.62E-06
A	C	0.31	-0.283001	0.06144483	6.34E-06
G	A	0.31	-0.2921581	0.06136115	3.17E-06
C	A	0.31	-0.2873003	0.06124558	4.35E-06
C	A	0.31	-0.2873003	0.06124558	4.35E-06
T	C	0.31	-0.2873003	0.06124558	4.35E-06
A	G	0.31	-0.2873003	0.06124558	4.35E-06
C	T	0.31	-0.2929688	0.06137466	3.00E-06
A	G	0.31	-0.2815872	0.0612218	6.52E-06
G	A	0.31	-0.2906375	0.06119113	3.34E-06
T	G	0.31	-0.292569	0.06136324	3.08E-06
G	C	0.31	-0.2929688	0.06137466	3.00E-06

G	C	0.31	-0.2929688	0.06137466	3.00E-06
G	A	0.31	-0.2912878	0.06142833	3.46E-06
T	G	0.31	-0.2873003	0.06124558	4.35E-06
A	T	0.31	-0.2870772	0.06118474	4.33E-06
A	G	0.31	-0.2873003	0.06124558	4.35E-06
T	TTTTA	0.31	-0.2891798	0.06153621	4.19E-06
C	CTTTA	0.31	-0.2912356	0.0611978	3.20E-06
A	G	0.31	-0.2873003	0.06124558	4.35E-06
G	T	0.31	-0.2873003	0.06124558	4.35E-06
CTT	C	0.3	-0.319112	0.06105087	3.60E-07
A	G	0.31	-0.3083586	0.06120922	8.86E-07
A	C	0.31	-0.2816387	0.06134571	6.77E-06
C	A	0.31	-0.292675	0.06191495	3.70E-06
T	A	0.31	-0.2873003	0.06124558	4.35E-06
G	A	0.31	-0.2873003	0.06124558	4.35E-06
C	T	0.31	-0.2873003	0.06124558	4.35E-06
G	GGT	0.11	0.4197449	0.0880823	3.11E-06
T	C	0.1	0.4457918	0.09308032	2.79E-06
T	A	0.03	-0.7596771	0.1608031	3.74E-06
G	A	0.13	-0.3835185	0.08444767	8.41E-06
G	T	0.13	-0.3835185	0.08444767	8.41E-06
C	A	0.11	-0.4007425	0.08797136	7.91E-06
C	T	0.1	-0.4784097	0.09464848	8.19E-07
T	TATAA	0.11	-0.416643	0.09101723	7.18E-06
A	G	0.32	-0.2639637	0.058007	8.08E-06
G	T	0.32	-0.3074685	0.05903652	3.94E-07
G	C	0.11	0.3914088	0.08287214	3.76E-06
G	C	0.19	0.3584071	0.07806115	6.76E-06
T	TA	0.11	-0.3983407	0.08369607	3.20E-06
T	C	0.02	-0.9238839	0.2045001	9.25E-06
G	A	0.04	0.7148377	0.1482575	2.39E-06
A	T	0.04	-0.6339611	0.1378658	6.50E-06
C	T	0.04	-0.7043661	0.1372806	5.63E-07
G	A	0.14	0.3777521	0.08317506	8.34E-06
A	G	0.15	0.3695833	0.08064254	6.95E-06
G	A	0.15	0.380272	0.08182522	5.23E-06
A	C	0.15	0.3695833	0.08064254	6.95E-06
C	A	0.11	0.4176192	0.09003849	5.45E-06
T	C	0.13	0.3829256	0.08496584	9.70E-06
G	A	0.37	-0.264587	0.05674454	4.89E-06
G	A	0.33	-0.2777109	0.06165602	9.81E-06
A	ATGTG	0.02	0.9279075	0.194845	3.13E-06
A	C	0.02	0.999225	0.2210045	9.11E-06
G	C	0.02	0.999225	0.2210045	9.11E-06
T	A	0.16	0.351965	0.07767588	8.73E-06
C	A	0.13	0.3904018	0.08497166	6.61E-06
A	G	0.13	0.3904018	0.08497166	6.61E-06
G	A	0.11	0.4182203	0.09169818	7.67E-06
A	G	0.13	0.3904018	0.08497166	6.61E-06
G	C	0.13	0.3904018	0.08497166	6.61E-06

C	T	0.12	0.4162006	0.09054631	6.55E-06
G	C	0.13	0.3957234	0.08616285	6.66E-06
G	C	0.14	0.3438668	0.07526244	7.40E-06
TA	T	0.14	0.3560659	0.07590096	4.30E-06
G	A	0.14	0.3560659	0.07590096	4.30E-06
G	A	0.14	0.3458846	0.07556328	7.13E-06
C	T	0.01	-1.324224	0.2671501	1.28E-06
CT	C	0.01	-1.186686	0.2551897	5.17E-06
ATGTG	A	0.04	-0.6727955	0.1388067	2.13E-06
G	A	0.02	-0.8393539	0.1863098	9.77E-06
C	T	0.02	-0.8966163	0.1890105	3.40E-06
A	T	0.04	-0.7038361	0.1442347	1.83E-06
ATGTGTGTGTG	A	0.01	-1.330131	0.2734251	1.96E-06
G	A	0.13	-0.3847345	0.08363033	6.44E-06
TAAATC	T	0.11	-0.3921127	0.08630067	8.27E-06
C	A	0.12	-0.3928919	0.08345625	4.00E-06
C	CT	0.12	-0.4054748	0.08717163	5.14E-06
T	TA	0.02	-1.066027	0.222513	2.75E-06
G	A	0.47	-0.2741582	0.057675	3.25E-06
A	T	0.47	-0.26977	0.05814592	5.42E-06
A	G	0.48	-0.2524426	0.05236799	2.40E-06
A	G	0.37	-0.2675469	0.05708426	4.39E-06
G	A	0.37	-0.27348	0.05743049	3.13E-06
T	C	0.48	-0.2506395	0.05469945	6.98E-06
CTCT	C	0.08	0.4891791	0.1042144	4.25E-06
T	A	0.06	0.5178472	0.1137751	7.98E-06
T	C	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
A	C	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
C	G	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
T	C	0.05	0.581831	0.1290461	9.62E-06
C	G	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
TTTTG	T	0.04	0.6160108	0.1367312	9.77E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
T	G	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
C	A	0.05	0.581831	0.1290461	9.62E-06
G	T	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
G	T	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06

A	G	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
A	T	0.05	0.581831	0.1290461	9.62E-06
T	C	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
T	A	0.05	0.581831	0.1290461	9.62E-06
G	C	0.05	0.581831	0.1290461	9.62E-06
G	C	0.05	0.581831	0.1290461	9.62E-06
G	T	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
A	G	0.05	0.581831	0.1290461	9.62E-06
T	G	0.05	0.581831	0.1290461	9.62E-06
C	T	0.05	0.581831	0.1290461	9.62E-06
C	A	0.05	0.5953244	0.1298617	6.91E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
G	T	0.05	0.581831	0.1290461	9.62E-06
G	T	0.05	0.581831	0.1290461	9.62E-06
T	G	0.05	0.581831	0.1290461	9.62E-06
G	A	0.05	0.581831	0.1290461	9.62E-06
T	G	0.13	-0.3922399	0.08298085	3.67E-06
C	CAGAT	0.3	0.2734393	0.05885211	5.26E-06
C	G	0.06	0.5219884	0.1158294	9.71E-06
C	G	0.06	0.5219884	0.1158294	9.71E-06
C	G	0.06	0.5219884	0.1158294	9.71E-06
C	T	0.06	0.5219884	0.1158294	9.71E-06
A	G	0.06	0.5392185	0.1163431	5.53E-06
T	C	0.28	0.2895646	0.05856176	1.35E-06
A	ATG	0.05	-0.6570199	0.1385242	3.41E-06
T	C	0.03	-0.7604356	0.1685866	9.54E-06
T	C	0.03	-0.7604356	0.1685866	9.54E-06
TC	T	0.32	-0.2753916	0.05884379	4.52E-06
G	C	0.15	-0.3794723	0.07711797	1.51E-06
C	T	0.16	-0.3513745	0.07526727	4.77E-06
G	A	0.16	-0.3513745	0.07526727	4.77E-06
C	G	0.13	-0.3938586	0.0822186	2.75E-06
A	G	0.13	-0.3786045	0.08147217	5.24E-06
T	C	0.15	-0.3634972	0.07670054	3.47E-06
C	T	0.15	-0.3837688	0.0764569	9.55E-07
G	A	0.14	-0.3949487	0.0795052	1.22E-06
G	A	0.15	-0.3720082	0.07603037	1.72E-06
G	T	0.15	-0.3837688	0.0764569	9.55E-07
G	A	0.15	-0.3837688	0.0764569	9.55E-07
C	T	0.03	-0.7269415	0.1603788	8.67E-06

A	T	0.36	-0.264031	0.05643585	4.56E-06
A	C	0.36	-0.2626423	0.05640173	5.02E-06
A	G	0.33	-0.3131211	0.05784855	1.43E-07
T	A	0.33	-0.3215001	0.05939705	1.43E-07
G	T	0.16	0.4125428	0.0771364	1.97E-07
A	G	0.02	0.4692079	0.0940646	1.04E-06
C	G	0.01	0.5031402	0.1107191	7.90E-06
T	C	0.01	0.5031402	0.1107191	7.90E-06
G	A	0.02	0.4490615	0.0959794	4.34E-06
G	GCACA	0.07	0.2126613	0.04723631	9.51E-06
T	TACACACAC	0.06	0.2448703	0.04833013	7.16E-07
C	T	0.19	0.132473	0.0294713	9.81E-06
T	C	0.19	0.1386821	0.02856195	1.94E-06
C	G	0.18	0.1339215	0.02948799	8.00E-06
G	A	0.18	0.1350102	0.02959974	7.34E-06
T	C	0.18	0.1344427	0.02947361	7.33E-06
C	A	0.18	0.1361107	0.02961496	6.29E-06
A	G	0.18	0.1361107	0.02961496	6.29E-06
T	A	0.18	0.1361107	0.02961496	6.29E-06
G	A	0.18	0.1347801	0.02961354	7.66E-06
T	C	0.18	0.1347801	0.02961354	7.66E-06
G	T	0.18	0.1347801	0.02961354	7.66E-06
C	G	0.18	0.1347801	0.02961354	7.66E-06
T	C	0.18	0.1347801	0.02961354	7.66E-06
T	C	0.18	0.1347801	0.02961354	7.66E-06
A	T	0.18	0.1347801	0.02961354	7.66E-06
T	C	0.18	0.1347801	0.02961354	7.66E-06
T	G	0.18	0.1347801	0.02961354	7.66E-06
G	C	0.18	0.1347801	0.02961354	7.66E-06
A	G	0.18	0.1347801	0.02961354	7.66E-06
A	G	0.18	0.1347801	0.02961354	7.66E-06
G	C	0.18	0.1366989	0.02963144	5.82E-06
A	G	0.18	0.1347801	0.02961354	7.66E-06
G	A	0.18	0.1347801	0.02961354	7.66E-06
A	G	0.18	0.1347801	0.02961354	7.66E-06
G	C	0.18	0.1347801	0.02961354	7.66E-06
C	T	0.18	0.1347801	0.02961354	7.66E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1331146	0.02955451	9.43E-06
T	C	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.19	0.1358107	0.02957341	6.39E-06
T	C	0.19	0.1373114	0.02959063	5.16E-06
T	C	0.19	0.1358107	0.02957341	6.39E-06
G	T	0.19	0.1358107	0.02957341	6.39E-06
A	G	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.19	0.1358107	0.02957341	6.39E-06
A	G	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06

A	G	0.19	0.1358107	0.02957341	6.39E-06
T	G	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
A	T	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.18	0.1402703	0.02969743	3.55E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
A	G	0.18	0.1401462	0.02967164	3.55E-06
G	T	0.18	0.1401462	0.02967164	3.55E-06
A	G	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
CATG	C	0.18	0.1373255	0.02979742	5.94E-06
A	G	0.18	0.1338342	0.02961635	8.84E-06
C	T	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1358107	0.02957341	6.39E-06
T	C	0.19	0.1358107	0.02957341	6.39E-06
A	C	0.18	0.1481222	0.02985675	1.18E-06
A	AC	0.18	0.142192	0.03013324	3.62E-06
G	GAT	0.18	0.1405601	0.03001097	4.25E-06
T	A	0.19	0.1376196	0.02957233	4.86E-06
A	G	0.19	0.1333228	0.02960933	9.49E-06
T	C	0.19	0.1358107	0.02957341	6.39E-06
C	A	0.19	0.1358107	0.02957341	6.39E-06
C	G	0.19	0.1375224	0.02956906	4.92E-06
T	C	0.19	0.1358107	0.02957341	6.39E-06
A	G	0.19	0.1367131	0.02958119	5.61E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
T	C	0.19	0.1373845	0.02956206	5.00E-06
A	G	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
A	G	0.19	0.1330584	0.0296041	9.83E-06
C	CTG	0.18	0.1391746	0.02960398	3.92E-06
T	A	0.19	0.1358107	0.02957341	6.39E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
C	CCAT	0.18	0.1339199	0.02976573	9.64E-06
G	A	0.19	0.1358107	0.02957341	6.39E-06
C	G	0.19	0.1358107	0.02957341	6.39E-06
C	T	0.18	0.1345722	0.02961618	7.92E-06
G	A	0.18	0.1345722	0.02961618	7.92E-06
A	C	0.19	0.1345742	0.02919301	5.91E-06
A	G	0.17	0.1473099	0.03094171	2.99E-06
T	G	0.18	0.1345722	0.02961618	7.92E-06
C	T	0.18	0.1345722	0.02961618	7.92E-06
C	A	0.18	0.138311	0.02961925	4.52E-06
T	C	0.18	0.1345722	0.02961618	7.92E-06

T	C	0.18	0.1345722	0.02961618	7.92E-06
A	G	0.18	0.1345722	0.02961618	7.92E-06
G	C	0.18	0.1345722	0.02961618	7.92E-06
A	C	0.19	0.1352959	0.02925583	5.53E-06
C	T	0.19	0.1352959	0.02925583	5.53E-06
A	C	0.2	0.1316754	0.02878466	6.92E-06
C	T	0.04	0.2855914	0.05859633	1.78E-06
C	A	0.01	0.5095554	0.1091731	4.57E-06
T	TACTG	0.18	-0.1353301	0.02926521	5.54E-06
A	AGT	0.18	-0.1348533	0.02926616	5.96E-06
T	TA	0.18	-0.1343326	0.02943649	7.26E-06
A	G	0.02	0.3984654	0.08539804	4.60E-06
G	A	0.13	0.1667972	0.03627905	6.24E-06
T	C	0.04	0.2780898	0.06178041	9.55E-06
C	T	0.03	0.3166889	0.06988634	8.36E-06
C	T	0.04	0.3026384	0.06265655	2.18E-06
T	G	0.03	0.3073311	0.06396838	2.45E-06
A	G	0.01	0.4870744	0.10762	8.57E-06
G	GA	0.08	0.1885394	0.04099729	6.21E-06
T	C	0.19	0.1333705	0.02959227	9.31E-06
T	TTGTGTGTGTG	0.02	0.4192896	0.08667584	2.10E-06
A	T	0.01	0.536924	0.1181404	7.89E-06
C	T	0.01	0.536924	0.1181404	7.89E-06
G	A	0.01	0.536924	0.1181404	7.89E-06
C	T	0.01	0.536924	0.1181404	7.89E-06
A	G	0.01	0.536924	0.1181404	7.89E-06
T	TTTTG	0.02	0.3691043	0.07929111	4.83E-06
G	A	0.02	0.3401042	0.07412612	6.51E-06
TAC	T	0.07	0.2139037	0.04721094	8.39E-06
T	A	0.23	0.1328853	0.02788205	2.92E-06
G	A	0.25	0.1251059	0.02741772	7.28E-06
TC	T	0.23	0.1294677	0.02803264	5.69E-06
T	C	0.23	0.1281457	0.0280342	7.02E-06
C	T	0.24	0.125834	0.02793093	9.39E-06
G	A	0.23	0.1328007	0.02800032	3.25E-06
C	T	0.23	0.1264436	0.02794183	8.60E-06
A	G	0.25	0.1261166	0.02752141	6.68E-06
T	C	0.24	0.1292195	0.02827416	7.05E-06
A	G	0.01	0.5173995	0.104657	1.28E-06
TTTTA	T	0.05	0.2369891	0.05046647	4.02E-06
AT	A	0.45	-0.100075	0.02147809	4.74E-06
G	A	0.01	0.5286647	0.1155412	6.88E-06
C	T	0.35	0.1264077	0.02512666	8.49E-07
T	G	0.41	0.1095448	0.02388391	6.56E-06
G	A	0.05	0.257394	0.05578404	5.80E-06
C	T	0.02	0.4336982	0.09602449	8.93E-06
A	G	0.01	0.5786785	0.1091531	2.28E-07
T	A	0.2	0.131188	0.02888081	7.97E-06
T	C	0.04	0.290477	0.05853182	1.17E-06
G	A	0.35	0.1135499	0.02457275	5.62E-06

C	T	0.35	0.1123639	0.02467188	7.56E-06
C	T	0.38	0.1123124	0.02401377	4.37E-06
C	A	0.38	0.1123124	0.02401377	4.37E-06
G	T	0.38	0.1131076	0.02405431	3.90E-06
A	C	0.38	0.1179073	0.02407642	1.59E-06
G	T	0.38	0.1159443	0.02408043	2.33E-06
G	A	0.38	0.1131076	0.02405431	3.90E-06
A	G	0.38	0.1155052	0.02408544	2.55E-06
AACAC	A	0.04	0.2827305	0.06281027	9.55E-06
C	T	0.01	0.476559	0.1045622	7.45E-06
T	A	0.27	-0.1338905	0.0259468	4.56E-07
G	A	0.29	0.1259183	0.02515344	9.56E-07
T	C	0.28	-0.1177628	0.02467637	2.84E-06
T	C	0.3	0.1249083	0.02536807	1.41E-06
C	T	0.3	0.1267546	0.02527218	9.13E-07
T	C	0.3	0.1267546	0.02527218	9.13E-07
A	G	0.28	-0.1232623	0.02521806	1.67E-06
C	T	0.3	0.12296	0.02535189	1.98E-06
G	A	0.28	-0.1242337	0.02513905	1.29E-06
A	C	0.3	0.1267546	0.02527218	9.13E-07
G	A	0.29	0.124735	0.02535319	1.43E-06
A	C	0.3	0.12296	0.02535189	1.98E-06
G	T	0.3	0.1255013	0.02526063	1.14E-06
C	A	0.28	-0.1175052	0.0251077	4.32E-06
G	C	0.28	-0.1224681	0.02522697	1.94E-06
T	C	0.28	-0.1190518	0.02502741	3.05E-06
A	T	0.28	-0.1215892	0.02522788	2.28E-06
C	T	0.28	-0.1175161	0.02510267	4.29E-06
A	C	0.3	0.1267546	0.02527218	9.13E-07
T	C	0.3	0.1267546	0.02527218	9.13E-07
A	T	0.3	0.1246519	0.02528586	1.37E-06
G	C	0.27	-0.1224231	0.02521068	1.93E-06
G	T	0.3	0.1267546	0.02527218	9.13E-07
G	A	0.3	0.1256911	0.02527995	1.12E-06
A	G	0.3	0.1242794	0.0252765	1.45E-06
C	A	0.29	0.1296255	0.02531664	5.54E-07
C	T	0.3	0.1267546	0.02527218	9.13E-07
T	C	0.27	-0.1245453	0.02511237	1.19E-06
C	T	0.28	-0.1253417	0.02503661	9.54E-07
G	T	0.3	0.1242532	0.02514794	1.30E-06
T	A	0.27	-0.1235877	0.02519219	1.53E-06
C	T	0.3	0.1245034	0.02521821	1.32E-06
A	G	0.29	0.1138521	0.0253316	9.84E-06
A	G	0.29	0.1169998	0.02521904	5.18E-06
A	G	0.28	-0.1206717	0.02497623	2.16E-06
A	C	0.29	0.1192064	0.02521379	3.48E-06
T	G	0.29	0.1192064	0.02521379	3.48E-06
G	A	0.29	0.1173802	0.02518786	4.72E-06
G	T	0.29	0.1167384	0.02520789	5.38E-06
TA	T	0.3	0.1177129	0.02490056	3.48E-06

C	T	0.29	0.1167384	0.02520789	5.38E-06
G	T	0.3	0.1201319	0.02483104	2.10E-06
G	A	0.29	0.1167384	0.02520789	5.38E-06
A	G	0.29	0.1167384	0.02520789	5.38E-06
C	A	0.29	0.1167384	0.02520789	5.38E-06
G	A	0.29	0.1167384	0.02520789	5.38E-06
G	T	0.29	0.115293	0.02543574	8.32E-06
GTCTCTCTCTC	G	0.02	0.4286493	0.09430873	7.87E-06
TACA	T	0.01	0.4851267	0.1070369	8.33E-06
C	T	0.01	0.4953055	0.103634	2.75E-06
T	G	0.01	0.4953055	0.103634	2.75E-06
C	T	0.01	0.5266176	0.1095883	2.44E-06
CTATT	C	0.01	0.4875826	0.1035989	3.83E-06
AT	A	0.01	0.4875826	0.1035989	3.83E-06
T	C	0.01	0.4875826	0.1035989	3.83E-06
TCTCACACACACACAC.	T	0.01	0.5265794	0.112884	4.62E-06
GT	G	0.03	0.3435347	0.07204921	2.89E-06
CTT	C	0.11	0.1739513	0.03745069	5.06E-06
A	G	0.12	0.1708671	0.03652985	4.37E-06
G	A	0.01	0.5270922	0.1125737	4.27E-06
C	T	0.48	0.1087015	0.02397842	8.30E-06
T	C	0.31	-0.1134633	0.02477735	6.77E-06
A	AACAC	0.02	0.3778863	0.08078449	4.36E-06
G	A	0.01	-0.5219185	0.1084288	2.35E-06
G	A	0.11	-0.1650579	0.03595047	6.42E-06
T	C	0.01	-0.5111936	0.1084589	3.71E-06
A	G	0.01	-0.5245338	0.1055948	1.15E-06
G	A	0.31	-0.1150113	0.02377657	2.11E-06
C	A	0.31	-0.1113919	0.02404869	5.36E-06
G	C	0.31	-0.1119021	0.02373657	3.70E-06
T	C	0.02	-0.4376734	0.08812954	1.15E-06
G	C	0.02	-0.3539352	0.07732272	6.83E-06
C	T	0.02	-0.3539352	0.07732272	6.83E-06
G	GGTGT	0.07	-0.2181261	0.04342472	8.81E-07
G	A	0.02	-0.3660842	0.07779311	3.84E-06
A	AAAATAAAT	0.03	-0.2644091	0.05675761	4.75E-06
A	AAAATAAAT	0.03	-0.2868569	0.06349182	8.87E-06
CGTGT	C	0.01	-0.4770999	0.1056008	8.87E-06
C	CGGGAA	0.03	-0.3083775	0.06799127	8.21E-06
T	G	0.08	-0.2024378	0.0389757	3.87E-07
G	C	0.07	-0.1960254	0.03968499	1.31E-06
G	A	0.01	-0.4752347	0.1021972	4.94E-06
T	C	0.01	-0.5101531	0.1084405	3.86E-06
C	T	0.01	-0.5101531	0.1084405	3.86E-06
T	C	0.01	-0.4857464	0.09959487	1.75E-06
TTTCC	T	0.01	-0.5213628	0.1085219	2.45E-06
G	A	0.01	-0.506748	0.1093961	5.35E-06
A	ATGTGTGTGTGTG	0.01	-0.5263424	0.104936	9.12E-07
T	C	0.01	-0.4475709	0.0996211	9.91E-06
G	T	0.02	-0.3371405	0.07434919	8.25E-06

T	C	0.02	-0.3371405	0.07434919	8.25E-06
G	GCACACACA	0.02	-0.3969852	0.07385027	1.58E-07
G	A	0.04	-0.2683411	0.05923318	8.41E-06
A	C	0.01	-0.4556621	0.09938286	6.60E-06
G	A	0.01	-0.4556621	0.09938286	6.60E-06
G	A	0.49	0.1023913	0.02176335	3.86E-06
T	G	0.5	-0.0993017	0.02208389	9.75E-06
TAC	T	0.22	-0.1371118	0.02886886	3.15E-06
T	C	0.03	-0.337237	0.06744611	9.83E-07
C	T	0.04	-0.2474432	0.05370819	5.98E-06
T	C	0.05	-0.2410172	0.05127851	3.94E-06
C	T	0.05	-0.2410172	0.05127851	3.94E-06
G	A	0.05	-0.2478208	0.0515553	2.42E-06
C	T	0.03	-0.3278291	0.0652173	8.66E-07
T	C	0.05	-0.2410172	0.05127851	3.94E-06
C	T	0.05	-0.2387028	0.05196493	6.36E-06
C	T	0.03	-0.3278291	0.0652173	8.66E-07
C	T	0.04	-0.2474432	0.05370819	5.98E-06
C	T	0.05	-0.2410172	0.05127851	3.94E-06
A	G	0.03	-0.3278291	0.0652173	8.66E-07
G	A	0.05	-0.2410172	0.05127851	3.94E-06
A	G	0.02	-0.3811169	0.08154549	4.44E-06
C	T	0.02	-0.3811169	0.08154549	4.44E-06
C	T	0.01	-0.5215724	0.1087311	2.54E-06
CTA	C	0.01	-0.5169643	0.09891355	3.31E-07
G	T	0.27	0.1143103	0.02347694	1.82E-06
G	A	0.01	-0.4680463	0.09419489	1.14E-06
G	A	0.01	-0.5022058	0.1087605	5.71E-06
G	A	0.01	-0.5022058	0.1087605	5.71E-06
T	C	0.47	0.09865715	0.02185905	9.06E-06
T	C	0.43	-0.1003697	0.02198452	7.20E-06
TTGTTTGTGTG	T	0.29	-0.1074754	0.02375077	8.60E-06
A	G	0.1	-0.1722176	0.03828157	9.66E-06
TTAA	T	0.02	-0.3438549	0.07229575	3.05E-06
C	G	0.15	-0.1413404	0.02910719	1.93E-06
C	T	0.04	-0.3190494	0.06067645	2.83E-07
GA	G	0.04	-0.2432816	0.05404005	9.52E-06
G	T	0.01	-0.480642	0.1052109	7.11E-06
T	A	0.02	-0.3853992	0.0774218	1.09E-06
G	A	0.02	-0.373218	0.08161179	6.96E-06
GCTGGGATTA	G	0.01	-0.5007748	0.1019378	1.48E-06
T	C	0.01	-0.4735886	0.1022766	5.39E-06
G	C	0.24	-0.1124962	0.02499076	9.54E-06
G	A	0.24	-0.1242616	0.02642564	3.90E-06
C	G	0.26	-0.1166315	0.02571013	8.18E-06
T	C	0.26	-0.1166315	0.02571013	8.18E-06
C	T	0.26	-0.124125	0.02565993	2.11E-06
A	C	0.26	-0.1294291	0.02544075	6.48E-07
C	T	0.26	-0.1294291	0.02544075	6.48E-07
C	G	0.26	-0.1287788	0.02553356	8.00E-07

A	C	0.26	-0.1317998	0.0255141	4.44E-07
C	A	0.26	-0.1355351	0.02566788	2.54E-07
G	A	0.26	-0.1294291	0.02544075	6.48E-07
C	T	0.26	-0.12646	0.0254586	1.15E-06
C	T	0.26	-0.1329307	0.02550847	3.56E-07
C	T	0.26	-0.1329307	0.02550847	3.56E-07
G	T	0.26	-0.1243421	0.02556919	1.87E-06
G	A	0.26	-0.1266204	0.0254611	1.12E-06
C	A	0.26	-0.1294291	0.02544075	6.48E-07
C	T	0.26	-0.1294617	0.02545491	6.53E-07
C	G	0.27	-0.1154197	0.02539166	7.86E-06
T	C	0.02	-0.3853159	0.07487519	4.89E-07
C	A	0.02	-0.3401651	0.07407138	6.39E-06
G	A	0.02	-0.3775479	0.07885982	2.65E-06
G	A	0.01	-0.4527826	0.09980113	8.17E-06
A	C	0.01	-0.4212566	0.09366794	9.71E-06
GAGGGTTCCTCTGT	A	0.04	-0.2649367	0.05512037	2.43E-06
G	A	0.01	-0.431166	0.09231526	4.50E-06
C	T	0.02	-0.3665573	0.07114255	4.74E-07
G	A	0.04	-0.2572214	0.05667538	8.11E-06
CT	C	0.03	-0.2782982	0.06126534	7.97E-06
C	T	0.02	-0.3221922	0.06984648	5.83E-06
T	C	0.02	-0.3221922	0.06984648	5.83E-06
C	T	0.01	-0.4793089	0.1052982	7.64E-06
G	A	0.01	-0.4803039	0.1052576	7.27E-06
G	A	0.03	-0.2989978	0.06019108	1.15E-06
A	T	0.06	-0.533226	0.1163597	6.78E-06
A	C	0.06	-0.5423553	0.119365	8.05E-06
C	G	0.06	-0.5423553	0.119365	8.05E-06
A	C	0.06	-0.5394148	0.1173705	6.40E-06
T	A	0.06	-0.581882	0.1188074	1.63E-06
A	G	0.04	-0.6890234	0.14497	3.16E-06
G	A	0.02	-1.048693	0.2267403	5.62E-06
A	G	0.11	0.3939877	0.08595014	6.74E-06
T	C	0.1	0.4157061	0.08798901	3.59E-06
C	CT	0.26	0.2881108	0.06279807	6.63E-06
ATGTG	A	0.02	-0.8642031	0.1838705	4.01E-06
G	A	0.12	-0.4044891	0.0818331	1.32E-06
T	C	0.06	0.6067504	0.1148004	2.55E-07
C	T	0.02	-0.8609529	0.1903614	8.83E-06
ATAGT	A	0.03	0.6829147	0.1452988	4.01E-06
G	A	0.02	1.02253	0.2109416	2.05E-06
C	T	0.05	0.6449037	0.1294276	1.09E-06
TTTTTA	T	0.01	1.130842	0.2426106	4.78E-06
A	T	0.17	0.3263204	0.07236399	9.36E-06
T	C	0.16	0.34862	0.07353134	3.33E-06
C	A	0.16	0.3584222	0.07350462	1.80E-06
T	C	0.17	0.3458532	0.07235107	2.79E-06
G	A	0.16	0.3535987	0.07410906	2.91E-06
A	G	0.16	0.3458035	0.07276943	3.17E-06

T	C	0.16	0.3368249	0.07449715	8.88E-06
A	G	0.16	0.3430875	0.07264399	3.62E-06
T	C	0.15	0.3695471	0.07735525	2.83E-06
A	G	0.15	0.3695471	0.07735525	2.83E-06
G	C	0.18	0.3295279	0.07157188	6.16E-06
G	GA	0.18	0.3330777	0.07119546	4.43E-06
G	A	0.18	0.3370153	0.07101496	3.27E-06
C	T	0.15	0.3546179	0.07760129	7.18E-06
C	G	0.18	0.3369785	0.07208261	4.50E-06
C	A	0.15	0.3520139	0.07827341	9.87E-06
G	C	0.15	0.3614809	0.07800236	5.39E-06
A	G	0.15	0.3639434	0.07733785	3.91E-06
G	GAATAAATA	0.01	-1.152486	0.2544965	8.61E-06
T	TAA	0.17	0.3387067	0.07205673	4.01E-06
G	A	0.17	0.3387067	0.07205673	4.01E-06
C	T	0.17	0.3387067	0.07205673	4.01E-06
A	T	0.01	1.10602	0.2275803	1.94E-06
C	T	0.01	1.10602	0.2275803	1.94E-06
T	C	0.01	1.10602	0.2275803	1.94E-06
CTGGTGGTGG	C	0.37	-0.2660587	0.05666459	4.10E-06
C	G	0.04	-0.6174609	0.1360968	8.29E-06
A	G	0.02	-1.002442	0.2136301	4.16E-06
G	C	0.38	-0.2517904	0.05520246	7.45E-06
C	A	0.38	-0.2516526	0.05530793	7.83E-06
T	A	0.38	-0.2483152	0.0550734	9.38E-06
G	A	0.38	-0.2502608	0.0549761	7.76E-06
T	C	0.38	-0.2458733	0.05456632	9.50E-06
TA	T	0.38	-0.25398	0.05446968	4.75E-06
C	T	0.36	-0.2610526	0.05484546	3.06E-06
T	C	0.36	-0.267185	0.05516784	2.09E-06
A	G	0.38	-0.2474947	0.0547946	9.06E-06
T	C	0.39	-0.2531991	0.05498433	6.14E-06
C	T	0.39	-0.2531991	0.05498433	6.14E-06
C	T	0.39	-0.2533496	0.05489522	5.87E-06
A	C	0.4	-0.2506882	0.05462683	6.59E-06
A	G	0.39	-0.2533496	0.05489522	5.87E-06
T	C	0.39	-0.2485945	0.0547926	8.29E-06
C	T	0.38	-0.2537937	0.05471664	5.30E-06
A	T	0.39	-0.2594422	0.05454201	3.11E-06
G	A	0.39	-0.2485238	0.0546862	8.02E-06
G	A	0.4	-0.2523805	0.05409755	4.69E-06
A	G	0.4	-0.2490549	0.05436504	6.83E-06
C	T	0.4	-0.257239	0.05417699	3.23E-06
T	A	0.18	-0.3447864	0.07315194	3.78E-06
C	A	0.18	-0.3455376	0.07306966	3.52E-06
A	G	0.19	-0.3329528	0.07137142	4.70E-06
G	C	0.19	-0.3386745	0.07001664	2.15E-06
G	A	0.19	-0.3386745	0.07001664	2.15E-06
T	A	0.18	-0.3515664	0.07125049	1.37E-06
T	C	0.19	-0.3336886	0.06941657	2.47E-06

C	T	0.19	-0.3309292	0.06929859	2.85E-06
T	C	0.19	-0.3370999	0.0694595	2.00E-06
A	G	0.19	-0.3289764	0.06872098	2.70E-06
G	A	0.18	-0.3392955	0.07135778	3.13E-06
T	C	0.18	-0.3318613	0.07228027	6.53E-06
G	C	0.05	0.6543993	0.1315808	1.14E-06
A	C	0.07	0.4823765	0.1054132	6.98E-06
G	A	0.07	0.4823765	0.1054132	6.98E-06
T	A	0.01	1.143831	0.2417149	3.47E-06
C	A	0.09	-0.4374407	0.09480428	5.90E-06
A	AT	0.05	-0.5690522	0.1218124	4.56E-06
C	T	0.03	0.8028536	0.1777431	9.05E-06
G	A	0.09	-0.4349538	0.09404261	5.62E-06
A	G	0.02	-1.01976	0.2163527	3.78E-06
A	G	0.43	0.255203	0.05398983	3.56E-06
A	G	0.43	0.2545205	0.05412402	3.97E-06
A	G	0.39	0.2521745	0.05554583	8.19E-06
T	C	0.39	0.2513309	0.05578686	9.53E-06
C	T	0.42	0.2735099	0.0547227	1.02E-06
C	T	0.14	0.3530401	0.07718049	7.04E-06
C	G	0.26	-0.2795325	0.06121691	7.29E-06
T	G	0.06	0.5682362	0.1138947	1.06E-06
A	G	0.02	-0.83351	0.1841008	8.65E-06
A	G	0.02	1.001101	0.2214048	8.87E-06
A	AT	0.01	1.342768	0.268789	1.03E-06
T	TTTCTTTCCCTTCTCTC	0.02	-0.863745	0.1844835	4.36E-06
GA	G	0.05	0.6347177	0.1265711	9.39E-07
T	TA	0.02	-0.9184167	0.2012934	7.41E-06
T	G	0.03	0.79351	0.1749058	8.30E-06
T	C	0.02	-0.3533716	0.0772565	6.93E-06
G	A	0.01	-0.531991	0.1061996	9.41E-07
G	A	0.01	-0.4743416	0.09511189	1.04E-06
G	A	0.02	-0.4280539	0.0889128	2.34E-06
A	G	0.3	0.1153765	0.02447982	3.72E-06
C	A	0.02	-0.3658313	0.08089742	8.71E-06
C	T	0.02	-0.398981	0.08536377	4.44E-06
A	T	0.02	-0.398981	0.08536377	4.44E-06
G	C	0.02	-0.398981	0.08536377	4.44E-06
C	A	0.02	-0.398981	0.08536377	4.44E-06
G	A	0.04	-0.2562192	0.05619334	7.39E-06
G	C	0.04	-0.2571082	0.05621214	6.93E-06
G	A	0.04	-0.2571082	0.05621214	6.93E-06
G	A	0.03	-0.3113206	0.06631017	4.04E-06
G	T	0.01	-0.5060169	0.1097379	5.88E-06
T	C	0.3	0.109987	0.02418847	7.81E-06
G	T	0.3	0.109987	0.02418847	7.81E-06
G	A	0.3	0.1100944	0.02411497	7.20E-06
A	G	0.29	0.1123103	0.02447106	6.47E-06
A	T	0.28	0.1132881	0.02439901	5.09E-06
GA	G	0.29	0.1111028	0.02455033	8.59E-06

A	G	0.3	0.1110072	0.02411961	6.11E-06
G	C	0.03	-0.3007973	0.06402687	3.98E-06
C	A	0.01	-0.4598274	0.09767837	3.81E-06
T	G	0.02	-0.390778	0.07480972	3.35E-07
T	A	0.01	-0.4095217	0.08936118	6.67E-06
C	CAT	0.01	-0.5378058	0.1063765	7.55E-07
A	G	0.1	-0.1706234	0.03775214	8.81E-06
A	G	0.1	-0.1845624	0.03808032	2.02E-06
A	G	0.21	-0.122444	0.02656729	5.94E-06
A	G	0.05	-0.2171994	0.04815689	9.18E-06
G	A	0.07	-0.1962734	0.04171389	3.85E-06
G	GGGAAGGAA	0.02	-0.3936027	0.08761201	9.92E-06
GA	G	0.27	-0.1162171	0.02403081	2.12E-06
AT	A	0.02	-0.4154509	0.09114468	7.44E-06
G	C	0.01	-0.5152775	0.1096637	3.97E-06
A	AGTGTGT	0.06	-0.2172701	0.04731788	6.41E-06
A	T	0.35	-0.1107569	0.02282078	1.95E-06
C	T	0.35	-0.1071424	0.02278448	3.90E-06
G	A	0.36	-0.1057597	0.02310755	6.84E-06
C	A	0.02	-0.401314	0.08716653	6.07E-06
T	G	0.02	-0.409421	0.09116322	9.98E-06
G	C	0.02	-0.409421	0.09116322	9.98E-06
C	CA	0.02	-0.409421	0.09116322	9.98E-06
G	A	0.02	-0.409421	0.09116322	9.98E-06
TA	T	0.02	-0.409421	0.09116322	9.98E-06
CA	C	0.02	-0.409421	0.09116322	9.98E-06
A	G	0.02	-0.409421	0.09116322	9.98E-06
C	T	0.02	-0.409421	0.09116322	9.98E-06
C	G	0.02	-0.409421	0.09116322	9.98E-06
T	TA	0.02	-0.409421	0.09116322	9.98E-06
G	A	0.02	-0.4264011	0.08906209	2.65E-06
C	G	0.02	-0.3983069	0.08737291	7.42E-06
TA	T	0.02	-0.3714874	0.08248217	9.44E-06
T	G	0.01	-0.430121	0.09554516	9.53E-06
A	C	0.01	-0.4975584	0.1105036	9.49E-06
A	ATTAC	0.01	-0.5141686	0.1067449	2.31E-06
A	T	0.01	-0.5141686	0.1067449	2.31E-06
C	G	0.01	-0.4975584	0.1105036	9.49E-06
G	A	0.01	-0.4516392	0.09336467	2.10E-06
T	C	0.01	-0.5161169	0.1031683	9.71E-07
A	AAAGAAAG	0.01	-0.5219698	0.1060263	1.41E-06
TAATGCCATTTATTC	C	0.13	-0.1466057	0.03256144	9.50E-06
T	G	0.15	-0.1409059	0.03078492	6.84E-06
GT	G	0.02	-0.4109755	0.09097877	8.90E-06
T	C	0.01	-0.5085648	0.1098141	5.37E-06
A	AATAT	0.47	0.1153284	0.02441303	3.54E-06
G	C	0.35	0.1220143	0.02707741	9.35E-06
T	C	0.36	0.1213307	0.02678693	8.44E-06
A	T	0.35	0.1234819	0.02701945	7.05E-06
C	T	0.31	0.1502191	0.02801581	1.69E-07

GTGGGTGACT	G	0.26	0.1530935	0.03323301	6.00E-06
ACT	A	0.31	0.1428197	0.02826922	7.67E-07
T	A	0.31	0.1502191	0.02801581	1.69E-07
G	A	0.31	0.1502191	0.02801581	1.69E-07
C	T	0.31	0.1502191	0.02801581	1.69E-07
T	C	0.31	0.1502191	0.02801581	1.69E-07
A	G	0.31	0.1448732	0.02800904	4.30E-07
T	A	0.31	0.1465969	0.02800801	3.18E-07
CG	C	0.3	0.1466127	0.0281708	3.68E-07
G	A	0.33	0.1340117	0.02695857	1.13E-06
G	A	0.32	0.1198565	0.02664576	9.68E-06
T	A	0.32	0.1239608	0.0264646	4.24E-06
T	C	0.33	0.126397	0.02649006	2.85E-06
C	T	0.33	0.1208669	0.02655062	7.63E-06
G	A	0.33	0.1267834	0.02637018	2.41E-06
G	A	0.33	0.1267834	0.02637018	2.41E-06
G	T	0.33	0.1244814	0.02644121	3.81E-06
G	A	0.33	0.1250144	0.02651322	3.68E-06
T	C	0.34	0.1265101	0.02634652	2.48E-06
A	C	0.33	0.123488	0.02651701	4.79E-06
GC	G	0.33	0.1245394	0.02662803	4.37E-06
T	C	0.33	0.125091	0.0265156	3.64E-06
G	A	0.34	0.1300997	0.0261341	1.09E-06
GC	G	0.33	0.1266486	0.02650904	2.77E-06
G	C	0.01	0.5181569	0.109635	3.50E-06
C	T	0.07	0.2400933	0.04974451	2.21E-06
A	G	0.07	0.2400933	0.04974451	2.21E-06
A	G	0.07	-0.2379296	0.05271139	9.04E-06
A	G	0.14	0.1805126	0.03802506	3.18E-06
G	A	0.14	0.1721285	0.03778288	7.52E-06
C	T	0.05	0.2714687	0.06044045	9.96E-06
T	TACACAC	0.03	-0.3466231	0.07529148	6.07E-06
A	G	0.41	-0.1264262	0.02542247	1.12E-06
G	A	0.46	-0.1192426	0.02628159	8.16E-06
G	A	0.46	-0.1201341	0.02621903	6.69E-06
CA	C	0.14	-0.1832471	0.03974871	5.90E-06
T	C	0.07	0.2177041	0.04806294	8.43E-06
C	T	0.07	0.2169067	0.04743779	6.98E-06
G	A	0.07	0.2135038	0.04659524	6.69E-06
G	C	0.07	0.2302127	0.04830681	2.93E-06
G	A	0.07	0.2315539	0.04896289	3.46E-06
G	A	0.07	0.2315539	0.04896289	3.46E-06
G	A	0.07	0.2315539	0.04896289	3.46E-06
G	A	0.08	0.2146125	0.04516634	3.12E-06
C	T	0.08	0.2146125	0.04516634	3.12E-06
C	T	0.08	0.2173928	0.04454062	1.72E-06
C	T	0.08	0.2107548	0.04486673	3.99E-06
G	A	0.08	0.2107548	0.04486673	3.99E-06
G	T	0.08	0.1957118	0.04343093	9.34E-06
A	C	0.26	0.1464779	0.02997981	1.68E-06

C	T	0.26	0.1372295	0.03007844	7.30E-06
C	T	0.25	0.1470898	0.0304313	2.14E-06
G	C	0.28	0.1469625	0.02808151	3.19E-07
C	G	0.25	0.1456731	0.03008011	2.05E-06
A	G	0.26	0.1476567	0.02951227	9.68E-07
C	T	0.25	0.1463025	0.03055977	2.65E-06
T	C	0.25	0.1470898	0.0304313	2.14E-06
A	G	0.26	0.1391632	0.0292379	3.01E-06
T	A	0.26	0.1377396	0.02948333	4.48E-06
A	AT	0.45	0.116632	0.02444651	2.86E-06
T	C	0.09	0.1976369	0.04317344	6.82E-06
G	A	0.11	0.1947536	0.04278095	7.63E-06
G	A	0.11	0.1896935	0.041765	7.99E-06
A	G	0.38	-0.1337756	0.02575233	3.86E-07
A	C	0.37	-0.1227115	0.02632766	4.70E-06
T	G	0.39	-0.1300318	0.02610251	1.07E-06
C	T	0.41	-0.1339621	0.02610073	5.22E-07
A	G	0.41	-0.1383728	0.02609144	2.26E-07
T	A	0.02	-0.4055515	0.08832578	6.41E-06
T	C	0.43	0.2328601	0.05182429	9.92E-06
TTTGTTG	T	0.46	0.2467381	0.05244798	3.88E-06
C	G	0.39	0.2432626	0.05400152	9.43E-06
T	C	0.35	-0.2553432	0.05479907	4.75E-06
A	G	0.04	-0.7047769	0.1491877	3.55E-06
ACACACACACACACA	T	0.02	-0.8327481	0.1824501	7.26E-06
T	C	0.01	-1.166786	0.224262	3.73E-07
C	T	0.01	-1.039724	0.2206841	3.76E-06
C	T	0.02	-0.75021	0.1608525	4.65E-06
G	A	0.12	-0.3592364	0.07998055	9.99E-06
A	G	0.12	-0.3805995	0.08127357	4.27E-06
T	C	0.12	-0.3615286	0.07941172	7.64E-06
T	G	0.08	-0.4936	0.1036753	3.00E-06
C	T	0.08	-0.4936	0.1036753	3.00E-06
T	C	0.08	-0.4936	0.1036753	3.00E-06
A	T	0.08	-0.4936	0.1036753	3.00E-06
C	T	0.12	0.3814207	0.0822943	5.30E-06
G	A	0.1	0.4348109	0.089889	2.11E-06
G	A	0.1	0.4217306	0.09057353	4.82E-06
C	A	0.13	-0.3484679	0.07747625	9.72E-06
T	C	0.02	-0.8970796	0.1847811	1.95E-06
C	G	0.03	-0.7920954	0.1598936	1.23E-06
T	A	0.16	-0.3209723	0.07056795	7.78E-06
CCT	C	0.15	-0.3379016	0.07425821	7.72E-06
ACTCT	A	0.04	-0.6499006	0.1373411	3.42E-06
GTGTGTGTGTGTGTG	C	0.02	0.9064601	0.1761526	4.91E-07
G	A	0.04	-0.6868412	0.1429361	2.45E-06
G	A	0.03	-0.7375578	0.1492731	1.30E-06
G	A	0.04	-0.6806357	0.1383761	1.45E-06
G	C	0.03	-0.7213006	0.1588196	8.02E-06
C	T	0.03	-0.7213006	0.1588196	8.02E-06

GGAGA	G	0.06	0.5155159	0.1145584	9.63E-06
G	A	0.06	0.5261605	0.1138849	5.66E-06
G	A	0.06	0.5261605	0.1138849	5.66E-06
G	A	0.06	0.5261605	0.1138849	5.66E-06
G	A	0.02	1.063605	0.2225211	2.75E-06
C	T	0.12	-0.378777	0.08306796	7.40E-06
TTA	T	0.15	-0.3826905	0.07829851	1.67E-06
A	AC	0.14	-0.4048886	0.07968012	6.70E-07
CT	C	0.06	-0.4969445	0.1055037	3.78E-06
C	CT	0.08	-0.4655473	0.101244	6.24E-06
G	A	0.37	0.2564253	0.05607327	6.98E-06
A	T	0.37	0.2553313	0.05614453	7.81E-06
T	G	0.05	-0.567864	0.1202206	3.56E-06
T	C	0.18	-0.3188577	0.06889268	5.46E-06
A	G	0.27	-0.2869104	0.05938346	2.17E-06
T	A	0.28	-0.2835765	0.05908437	2.51E-06
G	A	0.28	-0.2778298	0.059129	3.98E-06
C	T	0.28	-0.2835765	0.05908437	2.51E-06
T	A	0.28	-0.2837863	0.05901848	2.41E-06
C	T	0.28	-0.2835765	0.05908437	2.51E-06
A	T	0.28	-0.2798958	0.0590847	3.34E-06
C	T	0.28	-0.2691906	0.05924379	7.94E-06
C	T	0.28	-0.2835765	0.05908437	2.51E-06
TG	T	0.28	-0.2883089	0.05839328	1.33E-06
G	A	0.28	-0.2863068	0.05904587	2.00E-06
G	A	0.28	-0.284222	0.05874901	2.11E-06
A	G	0.28	-0.284222	0.05874901	2.11E-06
C	T	0.28	-0.2821385	0.05891909	2.64E-06
C	T	0.26	-0.2711748	0.05993227	8.64E-06
C	T	0.28	-0.2829692	0.05884511	2.41E-06
C	T	0.28	-0.2837146	0.05872483	2.17E-06
C	T	0.28	-0.2837146	0.05872483	2.17E-06
C	CATTTATT	0.03	0.8126531	0.1679586	2.10E-06
GA	G	0.02	-1.074027	0.1963375	9.89E-08
GA	G	0.26	-0.3106585	0.06902465	9.60E-06
T	C	0.01	1.317514	0.2540677	4.05E-07
.TCTTTCTTTCTTTTCT	T	0.03	-0.7805608	0.163774	2.93E-06
A	T	0.01	1.142397	0.251132	7.76E-06
G	A	0.08	-0.4644123	0.09778322	3.16E-06
C	T	0.05	-0.5365098	0.1160236	5.56E-06
A	C	0.06	-0.5349831	0.1068103	9.48E-07
T	C	0.05	-0.5717585	0.1193032	2.60E-06
A	T	0.01	-1.115434	0.2375409	4.03E-06
A	C	0.24	-0.2759108	0.06134316	9.72E-06
T	G	0.45	0.2486303	0.05313618	4.35E-06
A	G	0.13	-0.3710951	0.07738872	2.56E-06
C	CCACACACACACAC	0.03	-0.7863875	0.1718335	6.88E-06
G	C	0.2	-0.2973504	0.06617804	9.92E-06
T	TA	0.04	-0.6009339	0.1286454	4.50E-06
C	T	0.02	-0.9717506	0.2067095	3.94E-06

T	C	0.02	-0.9313084	0.2025621	6.26E-06
A	G	0.01	-1.164684	0.2436658	2.75E-06
C	T	0.2	0.3416754	0.06699034	6.12E-07
A	C	0.2	0.3168097	0.06629318	2.76E-06
C	T	0.2	0.3145049	0.06653283	3.50E-06
T	G	0.18	0.3182919	0.07002859	7.90E-06
C	G	0.19	0.3154503	0.06899003	7.00E-06
T	A	0.19	0.3178446	0.06850287	5.19E-06
C	T	0.19	0.3326169	0.06893459	2.24E-06
A	C	0.19	0.3409505	0.06894241	1.28E-06
C	G	0.19	0.3287737	0.06882759	2.79E-06
C	G	0.26	0.2694546	0.05991165	9.73E-06
G	T	0.26	0.2717301	0.06048456	9.95E-06
T	C	0.26	0.2698567	0.05920172	7.45E-06
T	C	0.26	0.2764011	0.05964731	5.32E-06
G	A	0.12	-0.3526638	0.07738082	7.48E-06
T	TACACAC	0.01	1.098187	0.243439	9.17E-06
G	A	0.02	-0.9232167	0.1966941	4.07E-06
T	CTCCCTCCCTTCCTTC	0.05	-0.6359068	0.1184972	1.66E-07
C	T	0.02	1.071585	0.2221424	2.25E-06
G	T	0.02	0.9104633	0.1920395	3.29E-06
C	T	0.02	0.9071218	0.1857908	1.71E-06
A	T	0.02	0.9806107	0.2067945	3.27E-06
T	G	0.02	0.9311539	0.1926588	2.15E-06
C	A	0.02	0.9745179	0.1980433	1.43E-06
CA	C	0.02	-0.8581368	0.1839219	4.62E-06
A	ATT	0.11	-0.3466919	0.07680263	9.05E-06
T	C	0.02	0.9647345	0.2128186	8.33E-06
A	T	0.02	-0.8569789	0.185778	5.85E-06
C	T	0.05	-0.6009867	0.1299216	5.52E-06
T	C	0.01	-0.5119609	0.1133935	8.99E-06
T	C	0.28	0.1325993	0.02826804	4.11E-06
G	A	0.02	-0.452333	0.0963791	4.07E-06
C	G	0.02	-0.452333	0.0963791	4.07E-06
A	G	0.02	-0.3697906	0.08099919	7.20E-06
G	A	0.14	-0.1586131	0.0348436	7.64E-06
T	C	0.02	-0.4718967	0.1004068	3.95E-06
A	G	0.4	0.1155572	0.02565322	9.41E-06
G	T	0.04	-0.3085735	0.06834847	9.00E-06
A	G	0.04	-0.2995656	0.06453079	5.12E-06
T	C	0.12	-0.1919184	0.03834963	9.63E-07
T	G	0.02	-0.4491226	0.09282991	2.10E-06
T	A	0.01	-0.51879	0.113046	6.48E-06
C	T	0.01	-0.51879	0.113046	6.48E-06
C	T	0.01	-0.51879	0.113046	6.48E-06
C	T	0.14	-0.1672767	0.03617495	5.55E-06
C	T	0.43	-0.1241026	0.02551085	1.85E-06
C	A	0.49	0.1164515	0.02470381	3.70E-06
T	G	0.47	-0.1197111	0.02555242	4.22E-06
T	C	0.47	-0.1232626	0.02553882	2.21E-06

G	A	0.47	-0.1218323	0.02542569	2.60E-06
AT	A	0.47	-0.1204939	0.02531914	3.02E-06
C	T	0.32	0.1177808	0.02552144	5.78E-06
A	G	0.31	0.1193812	0.02654254	9.70E-06
C	T	0.31	0.1233481	0.02660841	5.27E-06
C	G	0.31	0.1252616	0.02652951	3.58E-06
T	C	0.31	0.1248333	0.0263275	3.27E-06
T	C	0.29	0.1247556	0.02734309	7.29E-06
G	A	0.29	0.122453	0.02720443	9.55E-06
T	G	0.44	0.1110368	0.02457769	8.88E-06
G	A	0.44	0.1131077	0.02460697	6.27E-06
G	A	0.01	-0.9353055	0.1933609	2.12E-06
G	C	0.02	-0.7621763	0.1578621	2.21E-06
C	T	0.01	-0.9593562	0.2113021	8.08E-06
C	T	0.01	-0.9593562	0.2113021	8.08E-06
C	A	0.01	-0.9593562	0.2113021	8.08E-06
T	G	0.01	-0.9593562	0.2113021	8.08E-06
C	CTG	0.15	-0.3038874	0.06701898	8.29E-06
T	C	0.01	-0.9789126	0.2145129	7.29E-06
G	A	0.01	-0.9789126	0.2145129	7.29E-06
A	G	0.01	-0.9789126	0.2145129	7.29E-06
C	T	0.01	-0.9789126	0.2145129	7.29E-06
C	T	0.01	-0.9789126	0.2145129	7.29E-06
C	T	0.01	-0.9789126	0.2145129	7.29E-06
A	G	0.03	-0.6270217	0.1394991	9.86E-06
G	A	0.02	-0.7794448	0.1693572	6.14E-06
T	C	0.3	0.2179248	0.04781782	7.49E-06
A	T	0.29	0.2246878	0.04804789	4.41E-06
G	A	0.29	0.2246878	0.04804789	4.41E-06
C	A	0.3	0.2188965	0.04739371	5.71E-06
T	C	0.3	0.2177964	0.04738238	6.30E-06
T	C	0.3	0.2177964	0.04738238	6.30E-06
C	T	0.3	0.2188965	0.04739371	5.71E-06
G	A	0.3	0.2159847	0.04744132	7.65E-06
A	T	0.3	0.2188965	0.04739371	5.71E-06
G	A	0.3	0.2178873	0.04736826	6.20E-06
G	A	0.02	-0.8959497	0.1845453	1.95E-06
G	A	0.02	-0.8959497	0.1845453	1.95E-06
GTTT	G	0.02	-0.9191746	0.1849364	1.14E-06
T	G	0.02	-0.9191746	0.1849364	1.14E-06
G	GA	0.05	-0.4922602	0.1071493	6.36E-06
C	A	0.01	-0.9554828	0.2112375	8.70E-06
C	G	0.01	-0.9554828	0.2112375	8.70E-06
T	C	0.4	0.2667666	0.04519862	1.05E-08
GT	G	0.31	0.2332493	0.04817229	2.07E-06
T	A	0.33	0.2189157	0.04788164	7.02E-06
G	A	0.39	0.263026	0.04564476	2.20E-08
C	T	0.36	0.2495978	0.04687618	2.05E-07
A	G	0.37	0.2361935	0.04692744	8.45E-07
A	G	0.4	0.2603995	0.04585468	3.41E-08

G	A	0.39	0.2638699	0.04591111	2.38E-08
A	G	0.4	0.2603995	0.04585468	3.41E-08
A	G	0.36	0.2364975	0.04673546	7.42E-07
ATATAT	A	0.38	0.2628936	0.04567569	2.28E-08
A	G	0.39	0.2652963	0.04564833	1.70E-08
A	G	0.39	0.263705	0.04564358	2.04E-08
A	G	0.39	0.2690095	0.04552947	1.02E-08
C	T	0.39	0.263705	0.04564358	2.04E-08
T	G	0.39	0.2660645	0.04568262	1.59E-08
GC	G	0.36	0.2260009	0.04676306	2.16E-06
G	C	0.39	0.263705	0.04564358	2.04E-08
G	A	0.39	0.263705	0.04564358	2.04E-08
C	T	0.36	0.2364975	0.04673546	7.42E-07
TTGCA	T	0.39	0.2593338	0.04560953	3.28E-08
T	C	0.39	0.2653026	0.04571902	1.78E-08
T	G	0.36	0.2354813	0.04713047	1.01E-06
A	C	0.36	0.2475884	0.04690579	2.58E-07
T	A	0.39	0.269992	0.04586852	1.15E-08
G	C	0.36	0.2426395	0.04697614	4.48E-07
G	A	0.39	0.2671681	0.04592978	1.66E-08
T	C	0.36	0.2207733	0.04749287	4.99E-06
C	G	0.28	0.2290071	0.05014178	7.17E-06
C	G	0.28	0.2289576	0.04985368	6.41E-06
C	T	0.28	0.2272425	0.04997031	7.82E-06
C	T	0.28	0.2306819	0.04996753	5.76E-06
T	TAGTC	0.29	0.2258523	0.04939673	7.01E-06
A	G	0.29	0.2259258	0.04968818	7.84E-06
T	C	0.3	0.2259346	0.04942646	7.05E-06
A	G	0.3	0.2245608	0.04962353	8.63E-06
T	TA	0.3	0.2221778	0.04820967	5.97E-06
T	A	0.24	0.2386292	0.05296009	9.39E-06
T	G	0.15	-0.2820145	0.06157508	6.78E-06
A	AACAGTG	0.36	-0.2128613	0.04701713	8.55E-06
G	A	0.35	-0.2146887	0.04760966	9.25E-06
C	G	0.08	-0.3775666	0.08360185	8.98E-06
A	T	0.11	-0.3906575	0.07108376	8.71E-08
T	A	0.05	-0.4810227	0.1054201	7.31E-06
G	A	0.05	-0.4810227	0.1054201	7.31E-06
CT	C	0.05	-0.4810227	0.1054201	7.31E-06
T	C	0.05	-0.4810227	0.1054201	7.31E-06
G	A	0.05	-0.4810227	0.1054201	7.31E-06
T	C	0.05	-0.4810227	0.1054201	7.31E-06
T	C	0.34	0.2242081	0.04788717	4.30E-06
T	C	0.23	-0.2500586	0.05340072	4.28E-06
G	C	0.01	-1.003722	0.2165476	5.30E-06
C	CCTGTCTATCTAACTA	0.17	0.2835668	0.06166773	6.25E-06
GA	G	0.01	-1.140095	0.2174814	3.08E-07
G	A	0.03	-0.5956443	0.1279605	4.85E-06
A	T	0.03	-0.6314695	0.1294832	1.76E-06
T	TA	0.02	-0.7855479	0.1663263	3.57E-06

T	A	0.02	-0.7855479	0.1663263	3.57E-06
A	G	0.02	-0.7743919	0.1674555	5.56E-06
A	AT	0.04	-0.4202559	0.09131512	6.14E-06
TACACACAC	T	0.02	-0.727934	0.152462	2.82E-06
A	AT	0.14	-0.2970224	0.06451434	6.09E-06
A	T	0.03	-0.6336087	0.1344824	3.76E-06
G	T	0.01	-1.103827	0.2064527	1.84E-07
C	CAA	0.03	-0.6271067	0.129783	2.17E-06
G	A	0.02	-0.7873544	0.1698641	5.30E-06
C	T	0.02	-0.7699691	0.1645153	4.33E-06
A	G	0.02	-0.7873544	0.1698641	5.30E-06
C	T	0.02	-0.7873544	0.1698641	5.30E-06
C	G	0.02	-0.7699691	0.1645153	4.33E-06
G	A	0.31	-0.22413	0.04837406	5.35E-06
C	T	0.02	-0.8028841	0.1632682	1.46E-06
A	G	0.02	-0.8904814	0.1732651	5.08E-07
T	C	0.02	-0.8479616	0.1635441	4.07E-07
T	C	0.02	-0.8479616	0.1635441	4.07E-07
T	C	0.02	-0.8479616	0.1635441	4.07E-07
C	T	0.02	-0.8013731	0.169324	3.41E-06
TAA	T	0.01	-0.9736871	0.2130843	7.10E-06
G	GAA	0.29	-0.2225	0.04727363	3.84E-06
A	G	0.34	-0.221287	0.04855888	7.50E-06
G	C	0.02	-0.7235567	0.1507659	2.52E-06
G	A	0.02	-0.7225951	0.1577858	6.79E-06
A	G	0.03	-0.7131241	0.1362993	3.24E-07
G	A	0.03	-0.757043	0.1440389	2.88E-07
A	G	0.01	-0.9036009	0.1884362	2.57E-06
AACACACAC	A	0.01	-0.9947982	0.2175136	6.97E-06
T	TC	0.06	-0.4130457	0.08769849	3.79E-06
G	C	0.03	-0.6543634	0.1365819	2.62E-06
A	G	0.06	-0.4608438	0.09390124	1.53E-06
C	T	0.06	-0.4771662	0.09427413	7.38E-07
AAAG	A	0.06	-0.4449603	0.09488884	4.16E-06
G	A	0.06	-0.4488819	0.09534957	3.82E-06
A	G	0.08	-0.3806178	0.08287319	6.40E-06
C	A	0.08	-0.3806178	0.08287319	6.40E-06
A	T	0.02	-0.9098904	0.159223	2.83E-08
C	A	0.09	-0.3465673	0.07573326	6.89E-06
T	C	0.21	-0.2561503	0.05477222	4.40E-06
C	G	0.01	-0.957152	0.1979653	2.14E-06
A	G	0.01	-0.9981481	0.2036358	1.57E-06
GTA	G	0.05	-0.5208307	0.1033922	8.28E-07
T	G	0.03	-0.6493972	0.1346681	2.27E-06
A	G	0.03	-0.6461326	0.1358507	3.07E-06
A	G	0.01	-1.10375	0.2131285	4.20E-07
G	T	0.01	-1.10375	0.2131285	4.20E-07
G	A	0.01	-1.10375	0.2131285	4.20E-07
C	T	0.01	-0.8489424	0.1887873	9.77E-06
A	G	0.02	-0.8226765	0.1831119	9.95E-06

T	C	0.01	-1.00888	0.2209729	7.22E-06
G	A	0.02	-0.6879168	0.1461109	3.82E-06
T	C	0.02	-0.6879168	0.1461109	3.82E-06
C	A	0.02	-0.6879168	0.1461109	3.82E-06
C	T	0.02	-0.6879168	0.1461109	3.82E-06
G	T	0.02	-0.6879168	0.1461109	3.82E-06
T	C	0.02	-0.6879168	0.1461109	3.82E-06
A	T	0.02	-0.6879168	0.1461109	3.82E-06
A	G	0.02	-0.7145658	0.1464288	1.74E-06
T	A	0.02	-0.7076807	0.148353	2.88E-06
A	G	0.02	-0.6879168	0.1461109	3.82E-06
A	G	0.02	-0.6879168	0.1461109	3.82E-06
C	T	0.02	-0.6879168	0.1461109	3.82E-06
A	G	0.02	-0.6879168	0.1461109	3.82E-06
C	A	0.02	-0.6879168	0.1461109	3.82E-06
C	T	0.02	-0.6879168	0.1461109	3.82E-06
A	T	0.02	-0.720793	0.1482917	1.90E-06
G	A	0.02	-0.6835755	0.1484088	6.04E-06
T	C	0.02	-0.6879168	0.1461109	3.82E-06
A	G	0.02	-0.6879168	0.1461109	3.82E-06
T	C	0.02	-0.7228958	0.1515586	2.89E-06
TA	T	0.02	-0.7228958	0.1515586	2.89E-06
G	T	0.02	-0.7228958	0.1515586	2.89E-06
C	T	0.02	-0.7261094	0.1390682	3.41E-07
G	A	0.02	-0.7228958	0.1515586	2.89E-06
TAAA	T	0.02	-0.7228958	0.1515586	2.89E-06
G	A	0.01	-0.9161738	0.2020283	8.27E-06
T	C	0.01	-0.9161738	0.2020283	8.27E-06
A	C	0.02	-0.8429146	0.1806542	4.62E-06
C	T	0.02	-0.8231531	0.1779474	5.53E-06
C	G	0.02	-0.8231531	0.1779474	5.53E-06
A	G	0.02	-0.7622879	0.164924	5.62E-06
ATCTG	A	0.01	-1.019981	0.2108325	2.11E-06
C	T	0.01	-0.8779524	0.192594	7.45E-06
C	T	0.02	-0.809435	0.1634747	1.24E-06
G	GAAGA	0.08	-0.3683016	0.08027392	6.54E-06
T	TACAC	0.1	-0.3688355	0.07600677	1.97E-06
G	GTT	0.06	-0.3977686	0.08771705	8.28E-06
AC	A	0.03	-0.6215962	0.1292101	2.39E-06
G	A	0.16	-0.2880586	0.05816372	1.24E-06
G	A	0.02	-0.7190402	0.1594622	9.26E-06
T	TTGTGTG	0.05	0.470768	0.1047802	9.94E-06
CAGTAGCAGGCTTTT,	T	0.02	-0.6915505	0.1535396	9.47E-06
C	T	0.07	-0.4208595	0.08785728	2.63E-06
A	G	0.06	-0.4231801	0.09350181	8.60E-06
A	G	0.07	-0.4881126	0.08785196	6.41E-08
T	C	0.07	-0.4881126	0.08785196	6.41E-08
T	C	0.02	-0.7170151	0.150343	2.89E-06
G	C	0.07	-0.4916976	0.08851199	6.44E-08
C	CTGTGTGTGTGTG	0.02	-0.8131069	0.1636984	1.15E-06

G	T	0.02	-0.7783479	0.1608063	2.09E-06
C	G	0.19	-0.266706	0.05842918	7.25E-06
G	A	0.02	-0.7808868	0.1529322	5.96E-07
G	A	0.25	-0.2563478	0.05290903	2.04E-06
G	A	0.26	-0.2406285	0.05254227	6.79E-06
T	C	0.26	-0.2487804	0.05281215	3.77E-06
G	A	0.26	-0.244279	0.052744	5.39E-06
A	T	0.26	-0.2434855	0.05257539	5.40E-06
A	T	0.26	-0.2467131	0.05300512	4.86E-06
G	A	0.26	-0.2474381	0.0527322	4.10E-06
C	T	0.26	-0.2463262	0.05270193	4.45E-06
G	A	0.26	-0.2436913	0.05276245	5.71E-06
A	G	0.26	-0.2384901	0.05250934	8.02E-06
G	A	0.02	-0.6826002	0.1431353	2.90E-06
T	C	0.05	-0.534619	0.105683	7.48E-07
C	T	0.05	-0.5216612	0.1057179	1.35E-06
A	C	0.05	-0.4733053	0.1043842	8.29E-06
A	T	0.04	-0.5389191	0.1138683	3.41E-06
C	T	0.06	-0.4413577	0.08959981	1.40E-06
AATAC	A	0.06	-0.4851611	0.09429324	4.94E-07
T	C	0.06	-0.4775412	0.09274345	4.85E-07
G	A	0.07	-0.4077837	0.08917081	6.99E-06
C	T	0.03	-0.6478859	0.1195129	1.27E-07
G	T	0.07	-0.420939	0.09031862	4.73E-06
G	A	0.07	-0.4147246	0.08977156	5.68E-06
C	T	0.01	-0.9866194	0.2151498	6.61E-06
G	A	0.02	-0.7775258	0.1654081	3.95E-06
G	T	0.22	-0.2475957	0.05309368	4.67E-06
T	C	0.27	-0.2286505	0.04972352	6.24E-06
A	C	0.27	-0.2286505	0.04972352	6.24E-06
C	T	0.28	-0.2280817	0.0495369	6.08E-06
A	G	0.28	-0.2280817	0.0495369	6.08E-06
G	A	0.28	-0.2251459	0.04936945	7.39E-06
C	T	0.28	-0.2310258	0.04948637	4.57E-06
G	A	0.22	-0.2467632	0.05340963	5.67E-06
G	A	0.01	-0.8488379	0.1885061	9.51E-06
G	A	0.02	-0.8591053	0.1870772	6.42E-06
C	CA	0.02	-0.8591053	0.1870772	6.42E-06
CACAA	C	0.04	-0.5311208	0.10912	1.84E-06
C	G	0.01	-1.16986	0.2136308	9.62E-08
G	T	0.03	-0.5885233	0.1286933	6.99E-06
T	G	0.01	-0.9995883	0.2201587	8.07E-06
G	C	0.04	-0.5197432	0.1117941	4.98E-06
T	C	0.04	-0.5109339	0.1103365	5.41E-06
T	A	0.37	0.2138843	0.04530493	3.60E-06
G	C	0.04	0.5144574	0.1102095	4.58E-06
GTTGT	G	0.38	-0.2196324	0.04866717	9.11E-06
G	A	0.03	-0.7389897	0.1274139	1.81E-08
A	C	0.06	-0.460615	0.09206736	9.75E-07
A	G	0.02	-0.7169152	0.1440397	1.10E-06

A	C	0.01	-1.063628	0.2182182	1.78E-06
C	CA	0.01	1.062958	0.2350391	8.85E-06
G	T	0.05	0.6078607	0.1280957	3.28E-06
G	T	0.01	-1.210276	0.2460732	1.48E-06
T	TGAGA	0.01	1.189534	0.2513237	3.46E-06
C	T	0.01	1.189649	0.2640815	9.55E-06
C	CT	0.02	-0.8348372	0.1753538	3.05E-06
C	G	0.32	0.2651069	0.05826819	7.85E-06
T	C	0.16	0.3444614	0.07635611	9.29E-06
T	C	0.16	0.3444614	0.07635611	9.29E-06
C	T	0.16	0.3529193	0.07663727	6.15E-06
A	G	0.16	0.3507794	0.076579	6.85E-06
A	G	0.16	0.3507794	0.076579	6.85E-06
C	A	0.16	0.3507794	0.076579	6.85E-06
G	T	0.16	0.3507794	0.076579	6.85E-06
G	T	0.16	0.3467722	0.07669103	8.88E-06
T	A	0.47	-0.2242698	0.04869726	6.14E-06
A	G	0.41	-0.258843	0.05748715	9.65E-06
GCACA	G	0.38	0.292471	0.05681243	4.98E-07
A	G	0.06	0.5404424	0.1120973	2.32E-06
G	A	0.49	-0.2547203	0.05458129	4.67E-06
G	A	0.07	-0.4713878	0.1031435	7.17E-06
G	C	0.07	-0.5000379	0.1087786	6.37E-06
G	A	0.07	-0.5141589	0.1107477	5.20E-06
T	C	0.07	-0.5302585	0.1100198	2.33E-06
G	A	0.07	-0.5302585	0.1100198	2.33E-06
G	A	0.07	-0.515721	0.1080882	2.91E-06
T	C	0.07	-0.515721	0.1080882	2.91E-06
C	T	0.07	-0.5302585	0.1100198	2.33E-06
A	G	0.07	-0.515721	0.1080882	2.91E-06
G	A	0.07	-0.5298706	0.1105967	2.66E-06
G	A	0.07	-0.5298706	0.1105967	2.66E-06
G	A	0.07	-0.5152021	0.1086351	3.32E-06
G	C	0.07	-0.5298706	0.1105967	2.66E-06
TA	T	0.07	-0.5152021	0.1086351	3.32E-06
G	T	0.07	-0.5167119	0.1093753	3.60E-06
G	A	0.07	-0.4948833	0.1093439	8.71E-06
G	T	0.07	-0.4948833	0.1093439	8.71E-06
G	T	0.07	-0.4948833	0.1093439	8.71E-06
G	C	0.07	-0.4948833	0.1093439	8.71E-06
C	CA	0.05	0.6006663	0.132966	9.04E-06
GCTAGGCA	G	0.12	0.3977584	0.08583681	5.41E-06
C	T	0.12	0.3903466	0.08622648	8.67E-06
C	T	0.01	1.202415	0.2671062	9.69E-06
C	A	0.08	-0.4922831	0.1074769	6.86E-06
T	C	0.08	-0.4876944	0.106898	7.43E-06
C	T	0.08	-0.4922831	0.1074769	6.86E-06
G	A	0.08	-0.4922831	0.1074769	6.86E-06
TA	T	0.15	0.3511145	0.07666417	6.87E-06
G	A	0.03	0.7789805	0.169936	6.75E-06

T	C	0.03	0.7589424	0.154592	1.54E-06
AAGG	A	0.01	-1.211948	0.2494874	1.96E-06
G	C	0.02	0.9517259	0.2097297	8.27E-06
A	C	0.16	-0.3544221	0.07519185	3.78E-06
G	T	0.49	0.2646025	0.05640403	4.18E-06
A	G	0.01	-1.335604	0.2662625	9.34E-07
G	A	0.46	-0.26524	0.05647651	4.09E-06
A	T	0.17	0.3625362	0.07432636	1.79E-06
G	A	0.04	0.672415	0.1480868	8.17E-06
G	A	0.01	-1.110795	0.236473	4.07E-06
G	C	0.01	-1.193743	0.2499692	2.85E-06
A	C	0.01	-1.245543	0.2579981	2.25E-06
C	A	0.01	-1.161595	0.2420268	2.56E-06
C	T	0.02	1.021293	0.2255234	8.61E-06
T	G	0.02	-0.8324304	0.1763168	3.65E-06
G	A	0.02	-0.9349139	0.2076248	9.64E-06
C	A	0.03	0.7625623	0.1684756	8.70E-06
T	A	0.01	-1.209481	0.2467057	1.59E-06
G	T	0.03	-0.8090759	0.1720884	3.99E-06
C	CTGTGCGTG	0.03	-0.7673055	0.1660736	5.75E-06
C	T	0.03	-0.8090759	0.1720884	3.99E-06
A	T	0.04	-0.6648389	0.1463141	8.05E-06
G	GA	0.15	-0.1624415	0.0358566	8.41E-06
T	G	0.15	-0.1680455	0.03633215	5.52E-06
A	G	0.08	0.2190745	0.04700883	4.72E-06
A	AACCTGGGAGGCAGA	0.02	0.4217579	0.08946985	3.70E-06
T	G	0.45	0.1206668	0.02683407	9.74E-06
T	C	0.43	0.1207323	0.02664848	8.40E-06
A	C	0.43	0.1217584	0.02650513	6.35E-06
A	C	0.43	0.1185926	0.0263835	9.82E-06
T	C	0.43	0.1236249	0.02654682	4.79E-06
T	C	0.43	0.1219911	0.02661842	6.66E-06
T	C	0.42	0.1211579	0.0265804	7.43E-06
G	A	0.41	0.1234204	0.02665388	5.39E-06
C	T	0.42	0.1208085	0.02654578	7.68E-06
T	A	0.41	0.1318756	0.02693733	1.61E-06
T	C	0.42	0.1185246	0.02613341	8.22E-06
C	T	0.45	0.1384414	0.02640925	3.06E-07
C	T	0.43	0.140541	0.02606	1.45E-07
G	A	0.43	0.1380269	0.02610505	2.45E-07
T	C	0.45	0.1444022	0.02630661	8.93E-08
A	G	0.46	0.1448058	0.02648743	9.99E-08
T	G	0.45	0.1407872	0.02643636	2.03E-07
T	C	0.44	0.1371899	0.02603421	2.67E-07
A	G	0.46	0.1420539	0.02643835	1.60E-07
A	G	0.47	0.1230776	0.02604094	3.50E-06
A	G	0.45	0.1384922	0.02646579	3.20E-07
A	AAAT	0.33	0.1368466	0.03014598	8.07E-06
AT	A	0.09	0.2109305	0.04658746	8.51E-06
G	A	0.31	-0.1391807	0.0288046	2.16E-06

G	A	0.04	0.3168165	0.06461545	1.55E-06
A	G	0.05	-0.2895318	0.06243501	5.23E-06
C	T	0.01	0.5361058	0.1096551	1.66E-06
C	G	0.01	0.5364233	0.1096259	1.62E-06
G	A	0.01	0.5364233	0.1096259	1.62E-06
G	GA	0.26	0.1431301	0.03066242	4.56E-06
C	A	0.06	0.263107	0.05763747	7.22E-06
C	CA	0.2	0.1522215	0.03218559	3.45E-06
G	GTT	0.04	0.284075	0.06265756	8.28E-06
G	A	0.05	0.2864533	0.06128684	4.43E-06
G	T	0.05	0.2864533	0.06128684	4.43E-06
G	A	0.06	0.2663355	0.0577675	5.89E-06
C	T	0.05	0.2864533	0.06128684	4.43E-06
C	T	0.05	0.2864533	0.06128684	4.43E-06
A	G	0.05	0.2864533	0.06128684	4.43E-06
T	C	0.05	0.2864533	0.06128684	4.43E-06
GA	G	0.05	0.2864533	0.06128684	4.43E-06
T	G	0.05	0.2864533	0.06128684	4.43E-06
C	T	0.05	0.2864533	0.06128684	4.43E-06
A	G	0.05	0.2971406	0.06100557	1.80E-06
A	G	0.05	0.2971406	0.06100557	1.80E-06
G	C	0.05	0.2971406	0.06100557	1.80E-06
C	A	0.05	0.2971406	0.06100557	1.80E-06
C	CT	0.05	0.2853202	0.0613379	4.90E-06
G	T	0.04	-0.3165106	0.07025043	9.37E-06
C	T	0.17	-0.1627748	0.03581734	7.89E-06
C	T	0.06	0.2587387	0.0569041	7.81E-06
A	G	0.45	-0.1188804	0.02639867	9.46E-06
A	C	0.46	-0.1212823	0.02664162	7.63E-06
T	A	0.06	0.2546716	0.05466032	4.74E-06
A	G	0.03	0.3449188	0.07584257	7.78E-06
AT	A	0.47	-0.1267908	0.02552257	1.14E-06
C	T	0.47	-0.1155654	0.02558441	8.91E-06
C	CTTAT	0.05	0.2762432	0.05932831	4.80E-06
G	A	0.05	0.2761615	0.05861921	3.75E-06
T	C	0.06	0.2398947	0.05108245	4.01E-06
C	G	0.06	0.2349859	0.05180924	8.21E-06
A	C	0.06	0.2345437	0.05135323	7.14E-06
G	A	0.06	0.2345437	0.05135323	7.14E-06
C	T	0.06	0.253504	0.05195389	1.73E-06
C	T	0.06	0.248128	0.05171039	2.52E-06
T	C	0.06	0.2345437	0.05135323	7.14E-06
C	T	0.06	0.2345437	0.05135323	7.14E-06
C	T	0.06	0.2345437	0.05135323	7.14E-06
G	C	0.06	0.2456492	0.05448077	9.23E-06
A	G	0.06	0.2345437	0.05135323	7.14E-06
G	GCCTTTT	0.05	0.2737745	0.0606536	9.04E-06
C	A	0.06	0.23431	0.05134713	7.27E-06
TA	T	0.06	0.2355501	0.05182905	7.89E-06

A	C	0.06	0.2337318	0.05139272	7.78E-06
C	T	0.06	0.2353059	0.05133159	6.63E-06
C	G	0.05	0.283901	0.05562224	5.98E-07
T	C	0.06	0.2520482	0.05241351	2.40E-06
G	C	0.06	0.2535859	0.05230642	2.00E-06
A	G	0.06	0.2342256	0.05136636	7.38E-06
CA	C	0.02	0.4974974	0.1019339	1.72E-06
C	G	0.4	-0.1151991	0.02559065	9.53E-06
C	T	0.4	-0.1159564	0.02556048	8.18E-06
T	TTG	0.12	0.1899479	0.04139632	6.50E-06
A	G	0.19	0.1441834	0.03193734	9.01E-06
C	CGGAAAGGAAA	0.06	-0.2503908	0.04974956	8.41E-07
AAC	A	0.1	-0.2022974	0.04473522	8.71E-06
C	T	0.02	0.3915471	0.0857843	7.24E-06
G	C	0.01	0.5736195	0.1141076	8.65E-07
C	CA	0.04	0.2612927	0.05709989	6.87E-06
T	C	0.08	0.2071902	0.04581304	8.70E-06
C	T	0.36	-0.1198216	0.02645151	8.42E-06
A	G	0.36	-0.1198216	0.02645151	8.42E-06
T	C	0.36	-0.119451	0.02638318	8.51E-06
G	A	0.35	-0.1204146	0.02643458	7.53E-06
G	C	0.36	-0.1192398	0.02638797	8.85E-06
T	C	0.35	-0.1198833	0.0265646	9.07E-06
A	G	0.35	-0.1198833	0.0265646	9.07E-06
T	C	0.34	-0.121112	0.02671273	8.28E-06
G	T	0.34	-0.1229176	0.02657244	5.51E-06
C	G	0.34	-0.1198717	0.02664272	9.63E-06
T	C	0.41	0.1136525	0.02520507	9.23E-06
G	GAT	0.34	-0.1207428	0.02666516	8.49E-06
G	A	0.4	-0.1194556	0.0259425	6.05E-06
C	T	0.4	-0.1202478	0.02587441	5.00E-06
A	C	0.41	-0.1209346	0.02596175	4.76E-06
T	C	0.41	-0.1209346	0.02596175	4.76E-06
T	C	0.41	-0.1209346	0.02596175	4.76E-06
TGAAAATACATTATC	T	0.34	-0.1248207	0.02670014	4.42E-06
T	C	0.2	0.149729	0.03224524	5.09E-06
C	T	0.2	0.1463847	0.03222481	7.96E-06
A	G	0.2	0.14458	0.03209307	9.39E-06
T	C	0.2	0.1533339	0.03224346	3.06E-06
G	A	0.2	0.1533339	0.03224346	3.06E-06
C	T	0.2	0.155372	0.03224651	2.30E-06
C	T	0.2	0.155372	0.03224651	2.30E-06
T	A	0.2	0.153693	0.03225047	2.93E-06
G	C	0.2	0.1474135	0.03206426	6.25E-06
G	A	0.2	0.1537292	0.03244959	3.33E-06
C	G	0.22	0.1427292	0.03048234	4.27E-06
T	C	0.21	0.1522124	0.03213988	3.35E-06
G	A	0.22	0.1393144	0.03042849	6.80E-06
T	C	0.22	0.1393144	0.03042849	6.80E-06
G	A	0.2	0.1558866	0.03215232	2.00E-06

G	A	0.2	0.157183	0.03214299	1.65E-06
T	C	0.2	0.1522587	0.03206482	3.16E-06
C	T	0.24	0.1329009	0.02927702	8.08E-06
T	G	0.21	0.1483243	0.03132105	3.36E-06
A	G	0.21	0.1484758	0.0313261	3.29E-06
T	C	0.22	0.1434045	0.0305001	3.91E-06
T	C	0.22	0.1387891	0.03075943	9.11E-06
A	G	0.22	0.1421681	0.03120321	7.50E-06
C	T	0.21	0.1502812	0.03132634	2.53E-06
T	A	0.22	0.1421681	0.03120321	7.50E-06
C	T	0.21	0.150782	0.0313501	2.39E-06
TA	T	0.21	0.1495079	0.03127459	2.73E-06
A	C	0.22	0.145507	0.03120761	4.67E-06
C	G	0.21	0.1483593	0.03134472	3.39E-06
A	G	0.22	0.1425627	0.03108326	6.56E-06
C	T	0.22	0.1431958	0.03092683	5.40E-06
C	T	0.22	0.1471072	0.0310618	3.35E-06
T	C	0.22	0.1480939	0.03120956	3.21E-06
G	C	0.22	0.14315	0.03146808	7.74E-06
G	C	0.23	0.1403571	0.03094403	8.20E-06
A	G	0.22	0.1420113	0.03111096	7.22E-06
C	T	0.23	0.13606	0.02964422	6.46E-06
C	T	0.22	0.141963	0.03116686	7.54E-06
T	C	0.09	0.1987856	0.04417046	9.58E-06
A	G	0.09	0.2028481	0.04451983	7.49E-06
T	C	0.28	-0.1294837	0.02822256	6.52E-06
T	C	0.16	-0.162053	0.03531883	6.51E-06
CTTTAA	C	0.16	-0.1583357	0.03521908	9.78E-06
G	A	0.15	-0.1775555	0.03615945	1.50E-06
TTTGTTG	T	0.21	-0.1481606	0.03237667	6.87E-06
T	C	0.11	-0.1915662	0.04071377	3.85E-06
C	G	0.28	0.129086	0.02836933	7.70E-06
T	C	0.02	0.4099295	0.08661547	3.40E-06
G	T	0.02	0.4099295	0.08661547	3.40E-06
C	A	0.02	0.3946177	0.0841879	4.18E-06
C	T	0.02	0.4099295	0.08661547	3.40E-06
T	C	0.02	0.4099295	0.08661547	3.40E-06
G	A	0.02	0.4099295	0.08661547	3.40E-06
A	C	0.02	0.3818091	0.08198208	4.78E-06
G	A	0.02	0.4342959	0.08786502	1.29E-06
T	C	0.02	0.4099295	0.08661547	3.40E-06
A	G	0.02	0.4099295	0.08661547	3.40E-06
G	GT	0.01	0.5383245	0.1142527	3.74E-06
G	C	0.02	0.4138745	0.0909535	7.69E-06
TAC	T	0.1	0.2008573	0.043859	6.76E-06
CATCT	C	0.12	0.1789305	0.03923335	7.35E-06
T	A	0.06	0.2381636	0.05145761	5.44E-06
C	G	0.05	0.2646869	0.05837441	8.26E-06
C	CT	0.11	0.1828495	0.04011762	7.45E-06
C	T	0.01	-0.542614	0.1198392	8.50E-06

T	C	0.13	-0.1560323	0.03451602	8.77E-06
C	T	0.13	-0.1563937	0.03464691	9.03E-06
CT	C	0.03	-0.3335516	0.07336652	7.83E-06
C	T	0.02	-0.43217	0.08810367	1.54E-06
C	T	0.03	-0.3474392	0.0763087	7.60E-06
G	A	0.03	-0.3474392	0.0763087	7.60E-06
C	T	0.03	-0.3474392	0.0763087	7.60E-06
A	G	0.03	-0.3474392	0.0763087	7.60E-06
A	G	0.01	-0.4446541	0.09577293	5.10E-06
CT	C	0.03	-0.2719782	0.05957036	7.19E-06
A	G	0.02	-0.4121744	0.08877112	5.09E-06
G	A	0.03	-0.3089958	0.0663032	4.72E-06
A	ATTGTTTTGTTTTGTT	0.01	-0.5682848	0.1071039	2.24E-07
T	C	0.5	-0.1031015	0.02289384	9.46E-06
G	A	0.01	-0.5424684	0.1104563	1.49E-06
C	T	0.01	-0.5295599	0.113895	4.95E-06
G	C	0.19	-0.1390579	0.03046276	7.22E-06
C	G	0.18	-0.1458204	0.03054133	2.81E-06
G	A	0.18	-0.1402571	0.03077489	7.46E-06
C	T	0.18	-0.143506	0.030737	4.54E-06
A	AACACAC	0.02	-0.4551123	0.09782807	4.89E-06
C	T	0.32	-0.1172443	0.02587963	8.40E-06
C	CGTGTGTCT	0.15	0.17873	0.03575808	9.91E-07
CT	C	0.03	-0.325118	0.07157951	7.98E-06
C	CA	0.42	0.1144431	0.02374794	2.29E-06
T	C	0.12	0.1649777	0.03643215	8.48E-06
G	C	0.12	-0.1605886	0.03427649	4.22E-06
C	T	0.02	-0.5671572	0.08709652	3.61E-10
A	C	0.01	-0.5462035	0.1144353	2.83E-06
T	C	0.17	0.1465146	0.03137168	4.51E-06
T	C	0.17	0.1441864	0.03143714	6.56E-06
G	A	0.17	0.1453763	0.03158595	6.11E-06
A	G	0.17	0.1465146	0.03137168	4.51E-06
T	A	0.17	0.1465146	0.03137168	4.51E-06
G	T	0.17	0.1465146	0.03137168	4.51E-06
A	G	0.17	0.1453763	0.03158595	6.11E-06
T	G	0.26	0.1308516	0.02899899	9.10E-06
C	T	0.22	-0.1325137	0.02821333	4.00E-06
C	T	0.22	-0.1339511	0.02820747	3.16E-06
C	A	0.22	-0.1332465	0.02806994	3.19E-06
C	T	0.22	-0.1336876	0.02819587	3.27E-06
GTT	G	0.07	-0.2186674	0.04731693	5.62E-06
T	TTGTGTG	0.04	-0.2990862	0.06249756	2.67E-06
T	C	0.14	-0.1595819	0.0327109	1.74E-06
G	A	0.01	-0.5663769	0.1159431	1.69E-06
T	C	0.06	-0.2451444	0.05218159	3.98E-06
G	A	0.01	-0.5395281	0.1150928	4.17E-06
C	T	0.01	-0.5395281	0.1150928	4.17E-06
C	T	0.02	-0.4041525	0.08756636	5.77E-06
C	T	0.02	-0.424981	0.09016064	3.71E-06

T	TA	0.03	-0.362283	0.07596208	2.88E-06
A	C	0.03	-0.3402652	0.06505866	3.25E-07
C	T	0.02	-0.4458666	0.09367068	3.00E-06
T	C	0.02	-0.4346247	0.08668985	9.22E-07
C	G	0.02	-0.4346247	0.08668985	9.22E-07
C	T	0.02	-0.3750221	0.08009497	4.27E-06
G	A	0.03	-0.3087484	0.06874938	9.99E-06
C	T	0.08	-0.195681	0.043502	9.68E-06
TTTTAG	T	0.02	-0.456888	0.09751758	4.22E-06
A	C	0.02	-0.456888	0.09751758	4.22E-06
A	G	0.38	0.1086563	0.02358931	6.01E-06
G	C	0.27	-0.1173175	0.02593449	8.66E-06
A	C	0.27	-0.1173175	0.02593449	8.66E-06
C	T	0.27	-0.1201972	0.02598064	5.49E-06
C	T	0.28	-0.116733	0.02555429	7.12E-06
G	C	0.27	-0.1173175	0.02593449	8.66E-06
G	A	0.27	-0.1173175	0.02593449	8.66E-06
C	T	0.27	-0.1182649	0.02592424	7.31E-06
G	A	0.24	-0.1395933	0.02705287	4.57E-07
G	A	0.11	-0.1796808	0.03685061	1.76E-06
A	G	0.01	-1.157399	0.243219	3.02E-06
G	GA	0.29	0.2427331	0.0540406	9.96E-06
CTATTAT	C	0.13	-0.3692184	0.08060449	6.73E-06
TTCTC	T	0.05	-0.525958	0.1151624	7.15E-06
G	A	0.03	-0.7133726	0.1517843	3.95E-06
G	A	0.02	-1.037329	0.1932604	1.65E-07
CCTT	C	0.02	-0.8372157	0.1806378	5.29E-06
C	T	0.04	-0.6518048	0.1387176	3.97E-06
AAAAAAAAG	A	0.03	0.769522	0.1483877	4.03E-07
C	CCACACA	0.01	-1.070686	0.2189144	1.64E-06
T	C	0.3	0.2803829	0.05187515	1.37E-07
C	T	0.02	-0.8737492	0.1913728	7.19E-06
T	TATTCC	0.21	-0.2940229	0.06368632	5.74E-06
C	G	0.03	-0.6718722	0.1423321	3.60E-06
T	C	0.01	-1.078345	0.2345306	6.24E-06
C	T	0.01	-1.249743	0.2646107	3.56E-06
TA	T	0.01	-1.353083	0.2420924	5.37E-08
G	C	0.01	-1.353083	0.2420924	5.37E-08
G	A	0.01	-1.353083	0.2420924	5.37E-08
C	T	0.01	-1.353083	0.2420924	5.37E-08
A	G	0.01	-1.353083	0.2420924	5.37E-08
C	T	0.01	-1.064533	0.2340494	7.77E-06
G	C	0.01	-1.064533	0.2340494	7.77E-06
G	GT	0.01	-1.064533	0.2340494	7.77E-06
G	A	0.01	-1.064533	0.2340494	7.77E-06
A	T	0.01	-1.064533	0.2340494	7.77E-06
G	A	0.01	-1.064533	0.2340494	7.77E-06
C	T	0.01	-1.095886	0.2363039	5.22E-06
G	GA	0.02	-0.7668927	0.1682165	7.41E-06
CTGTCTG	C	0.3	-0.2776116	0.06011369	5.70E-06

C	T	0.42	-0.241656	0.05373104	9.71E-06
G	A	0.4	-0.2499062	0.05378129	5.02E-06
C	T	0.4	-0.2508438	0.05363603	4.38E-06
G	A	0.4	-0.2531176	0.0538848	3.99E-06
C	T	0.4	-0.2530541	0.05395331	4.12E-06
CAT	C	0.4	-0.2585727	0.0539194	2.55E-06
T	C	0.4	-0.2530541	0.05395331	4.12E-06
T	C	0.4	-0.2530541	0.05395331	4.12E-06
A	G	0.4	-0.2530541	0.05395331	4.12E-06
G	A	0.4	-0.2525249	0.05390557	4.23E-06
G	A	0.4	-0.2532677	0.05401465	4.15E-06
A	G	0.02	-0.8427471	0.1837443	6.56E-06
TTATC	T	0.02	-0.8427471	0.1837443	6.56E-06
A	G	0.02	-0.8427471	0.1837443	6.56E-06
TTGTG	T	0.03	-0.7810415	0.1577723	1.24E-06
C	CCA	0.02	-0.9502968	0.2048261	5.18E-06
G	C	0.02	-0.9588126	0.2122985	8.94E-06
A	G	0.01	-1.168919	0.2599533	9.75E-06
C	T	0.01	-1.168919	0.2599533	9.75E-06
C	T	0.07	-0.4722332	0.1002646	3.77E-06
G	T	0.03	-0.742216	0.1619811	6.69E-06
TTTA	T	0.01	1.061219	0.2261661	4.09E-06
T	C	0.27	-0.2910734	0.05899314	1.34E-06
GTA	G	0.02	0.8976607	0.1930386	4.94E-06
G	A	0.02	-1.009898	0.2125326	3.12E-06
G	A	0.45	0.2320646	0.05096866	7.61E-06
G	A	0.01	-1.072856	0.2368645	8.44E-06
GGTTGTTGTT	G	0.03	-0.6640947	0.1418417	4.28E-06
T	C	0.02	-0.8232807	0.1799274	6.89E-06
C	T	0.46	-0.2467714	0.05044991	1.64E-06
C	CA	0.02	-0.7914665	0.1732349	7.10E-06
G	C	0.33	0.2591468	0.0551425	3.95E-06
C	T	0.4	-0.2559685	0.05314998	2.32E-06
G	T	0.02	-1.057538	0.1943615	1.14E-07
G	A	0.09	0.4131795	0.08871082	4.78E-06
T	A	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
A	AG	0.08	0.4378025	0.09602691	7.41E-06
G	T	0.08	0.4329737	0.09372433	5.66E-06
C	A	0.09	0.4131795	0.08871082	4.78E-06
C	T	0.09	0.4131795	0.08871082	4.78E-06
G	A	0.09	0.4131795	0.08871082	4.78E-06
T	G	0.09	0.4131795	0.08871082	4.78E-06
G	A	0.09	0.4131795	0.08871082	4.78E-06
C	T	0.09	0.4131795	0.08871082	4.78E-06
G	A	0.09	0.4131795	0.08871082	4.78E-06
T	C	0.09	0.4131795	0.08871082	4.78E-06
AT	A	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
G	T	0.09	0.4131795	0.08871082	4.78E-06

T	C	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
G	T	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.08	0.4413453	0.09235321	2.76E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
T	C	0.09	0.4131795	0.08871082	4.78E-06
C	A	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
C	T	0.09	0.4069831	0.08897557	6.93E-06
T	C	0.05	0.5082745	0.1112435	7.09E-06
G	C	0.09	0.4037655	0.08883996	7.89E-06
G	A	0.09	0.4131795	0.08871082	4.78E-06
A	C	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.09	0.4131795	0.08871082	4.78E-06
G	A	0.09	0.4131795	0.08871082	4.78E-06
A	G	0.35	0.2417609	0.05382995	9.98E-06
T	C	0.35	-0.2435939	0.05389949	8.82E-06
A	G	0.35	-0.2458852	0.05385828	7.20E-06
A	G	0.35	-0.2425113	0.05385681	9.49E-06
C	T	0.29	0.2588641	0.05579662	5.18E-06
T	C	0.02	-0.9907903	0.2126485	4.74E-06
C	A	0.01	-1.077534	0.2246594	2.54E-06
C	T	0.01	-1.085258	0.2182091	1.12E-06
G	A	0.07	-0.4811484	0.1056687	7.60E-06
AG	A	0.41	-0.2331863	0.05160485	8.85E-06
C	G	0.01	-1.096138	0.2425244	8.81E-06
G	A	0.21	-0.1253355	0.02718163	5.88E-06
C	G	0.22	-0.1260058	0.02703189	4.69E-06
T	C	0.24	-0.1216568	0.02547886	2.81E-06
T	A	0.33	-0.1129833	0.0235334	2.49E-06
T	C	0.24	-0.1184525	0.02548876	5.00E-06
T	C	0.24	-0.1193671	0.02548518	4.24E-06
C	A	0.24	-0.1217531	0.02546823	2.73E-06
A	G	0.24	-0.1193671	0.02548518	4.24E-06
T	G	0.24	-0.1206757	0.02548153	3.35E-06
G	A	0.24	-0.1185302	0.02578645	6.27E-06
C	T	0.17	-0.1324558	0.02895937	6.94E-06
C	T	0.02	-0.4141425	0.08938142	5.32E-06
T	C	0.44	-0.1039376	0.02277134	7.23E-06
T	C	0.47	-0.100358	0.02214001	8.31E-06
A	C	0.46	-0.1035001	0.02213881	4.41E-06
G	A	0.05	-0.2408738	0.05304115	8.01E-06
C	A	0.05	-0.2408738	0.05304115	8.01E-06
G	GACACAC	0.13	-0.1655174	0.03571773	5.31E-06
G	C	0.01	-0.4513543	0.09811024	6.16E-06
G	A	0.42	-0.1049797	0.02316411	8.34E-06
C	T	0.42	-0.1050099	0.02310772	7.90E-06
G	C	0.01	-0.5142446	0.1066519	2.26E-06
C	T	0.02	-0.4036186	0.08974979	9.72E-06

AACAC	A	0.02	-0.4125285	0.0859854	2.53E-06
G	A	0.06	-0.2116489	0.04678522	8.65E-06
G	A	0.14	-0.1527732	0.03284094	4.90E-06
GA	G	0.22	-0.1151337	0.02429497	3.30E-06
ATGTAAATG	A	0.02	-0.3874628	0.08279015	4.32E-06
C	G	0.03	-0.3169877	0.07002939	8.55E-06
G	A	0.01	-0.4426806	0.09376828	3.59E-06
T	C	0.01	-0.4628496	0.09852622	3.98E-06
G	A	0.02	-0.3699412	0.07880427	4.04E-06
G	A	0.04	-0.2698791	0.05967498	8.70E-06
G	A	0.03	-0.2915887	0.06401345	7.54E-06
AGTGTGTGTGT	A	0.02	-0.4389971	0.08755816	9.21E-07
G	A	0.02	-0.4361593	0.09165167	3.02E-06
T	G	0.04	-0.2438167	0.05316589	6.57E-06
A	AAAC	0.04	-0.2603307	0.0551336	3.57E-06
G	T	0.04	-0.2438167	0.05316589	6.57E-06
A	C	0.04	-0.2474569	0.05458855	8.30E-06
A	AACAC	0.03	-0.306132	0.06586648	4.99E-06
C	T	0.03	-0.3409062	0.07160547	2.99E-06
C	T	0.03	-0.3484975	0.06890167	7.47E-07
G	T	0.03	-0.3349742	0.06986803	2.57E-06
G	C	0.03	-0.3484975	0.06890167	7.47E-07
C	T	0.03	-0.3362418	0.06590222	6.04E-07
A	G	0.03	-0.3362418	0.06590222	6.04E-07
C	A	0.03	-0.3484975	0.06890167	7.47E-07
T	C	0.03	-0.3362418	0.06590222	6.04E-07
T	G	0.03	-0.3362418	0.06590222	6.04E-07
T	A	0.03	-0.3362418	0.06590222	6.04E-07
G	A	0.04	-0.2829912	0.06034246	4.13E-06
G	A	0.04	-0.2829912	0.06034246	4.13E-06
A	G	0.04	-0.2811155	0.06144551	6.90E-06
A	G	0.04	-0.2761209	0.05986714	5.85E-06
G	A	0.04	-0.278862	0.06096013	6.92E-06
A	G	0.18	-0.1398718	0.02948594	3.23E-06
TTTC	T	0.12	-0.1633876	0.03567303	6.75E-06
CTCCT	C	0.08	-0.1825814	0.03946008	5.48E-06
T	C	0.02	-0.412279	0.07856521	2.98E-07
T	C	0.04	-0.2532845	0.0551643	6.42E-06
C	T	0.32	-0.1142324	0.023575	2.03E-06
C	T	0.06	-0.2195101	0.04805264	7.11E-06
C	CACATATAT	0.02	-0.403636	0.08773652	6.16E-06
C	T	0.02	-0.3203915	0.07067528	8.30E-06
T	A	0.02	-0.3203915	0.07067528	8.30E-06
T	TTG	0.04	-0.285624	0.06016566	3.18E-06
T	C	0.24	0.1184795	0.02596993	7.30E-06
TATAA	T	0.24	0.1180044	0.02607224	8.56E-06
C	A	0.23	0.1211981	0.02614959	5.29E-06
C	T	0.24	0.1184795	0.02596993	7.30E-06
A	G	0.24	0.1175058	0.02606105	9.24E-06
T	C	0.24	0.1171082	0.02606389	9.89E-06

T	C	0.24	0.1173793	0.02596031	8.74E-06
T	C	0.24	0.1178316	0.02605794	8.72E-06
C	A	0.24	0.1180773	0.02595802	7.75E-06
C	T	0.01	-0.5314719	0.104027	5.84E-07
C	G	0.01	-0.5314719	0.104027	5.84E-07
C	T	0.01	-0.5186714	0.1101903	3.82E-06
C	A	0.04	-0.2774826	0.05817752	2.87E-06
A	AACCCAGCG	0.04	-0.2791706	0.06135312	7.70E-06
G	A	0.04	-0.2457794	0.05286544	4.96E-06
T	C	0.03	-0.2860298	0.06272668	7.38E-06
T	C	0.01	-0.4477765	0.09831162	7.55E-06
C	CCACACACA	0.03	-0.3131894	0.06605324	3.27E-06
A	ATGTGTGTG	0.02	-0.335148	0.07370204	7.80E-06
C	T	0.03	-0.3201106	0.070863	8.90E-06
G	A	0.02	-0.393344	0.07474487	2.77E-07
G	C	0.02	-0.3388815	0.07005224	2.10E-06
T	C	0.03	-0.3258923	0.06923776	3.82E-06
G	C	0.03	-0.3305038	0.06916334	2.76E-06
C	T	0.01	-0.5918982	0.103083	2.43E-08
C	T	0.01	-0.5391385	0.1005024	1.67E-07
C	CA	0.11	-0.1680145	0.03568897	3.81E-06
G	A	0.02	-0.4172154	0.09156229	7.49E-06
C	T	0.01	-0.4494825	0.09350284	2.42E-06
C	A	0.01	-0.4494825	0.09350284	2.42E-06
A	C	0.01	-0.4494825	0.09350284	2.42E-06
A	G	0.03	-0.3135375	0.06747872	5.02E-06
G	A	0.02	-0.3389748	0.07435789	7.42E-06
A	AAAAT	0.03	-0.2928847	0.06173384	3.23E-06
TATACGTATATATAC	T	0.01	-1.049832	0.22112	3.19E-06
G	A	0.06	0.4955006	0.1091278	8.07E-06
A	G	0.06	0.5219388	0.1136622	6.43E-06
GAAGA	G	0.01	-1.177249	0.2592308	8.04E-06
A	G	0.35	0.2490467	0.05364094	5.12E-06
A	T	0.35	0.2576959	0.05359508	2.42E-06
C	T	0.01	-1.085422	0.2382935	7.57E-06
C	G	0.17	0.3677738	0.07223546	6.41E-07
T	C	0.17	0.3527229	0.0718523	1.52E-06
A	G	0.17	0.3404224	0.07203309	3.52E-06
G	C	0.18	0.2983352	0.06634991	9.79E-06
G	T	0.16	-0.3215577	0.07100316	8.50E-06
G	A	0.02	-0.7993074	0.1744901	6.76E-06
C	G	0.04	0.5720495	0.1265157	8.77E-06
G	T	0.02	-0.9277172	0.2034536	7.41E-06
G	A	0.01	-1.334213	0.2557779	3.50E-07
C	A	0.47	-0.2361795	0.05024965	3.96E-06
T	C	0.01	-1.275917	0.2606476	1.62E-06
G	A	0.01	-1.275917	0.2606476	1.62E-06
C	T	0.02	-0.8471992	0.1785827	3.25E-06
TAA	T	0.02	-0.8768335	0.1835866	2.80E-06
C	T	0.01	1.161608	0.2509718	5.47E-06

T	G	0.01	-1.180872	0.239912	1.43E-06
A	G	0.01	-1.100117	0.2363292	4.85E-06
A	T	0.08	-0.4930601	0.102451	2.37E-06
CCTTT	C	0.02	-0.8530399	0.1723717	1.26E-06
G	A	0.01	-1.238923	0.2656393	4.66E-06
C	T	0.16	-0.338186	0.07460674	8.35E-06
C	G	0.42	0.2426735	0.05228919	5.17E-06
G	A	0.38	0.2481185	0.05324363	4.74E-06
CA	C	0.1	-0.4542537	0.08056311	4.20E-08
C	T	0.2	0.2913747	0.06432945	8.48E-06
G	C	0.06	0.4908928	0.1087231	9.03E-06
C	T	0.03	-0.7783183	0.154441	8.20E-07
G	A	0.03	-0.7783183	0.154441	8.20E-07
G	A	0.03	-0.7817065	0.1563141	9.86E-07
A	G	0.03	-0.7817065	0.1563141	9.86E-07
A	G	0.03	-0.7385262	0.1553079	3.08E-06
G	A	0.03	-0.7423763	0.1535741	2.15E-06
G	C	0.03	-0.7637689	0.1551896	1.43E-06
AG	A	0.03	-0.7817065	0.1563141	9.86E-07
C	A	0.03	-0.712035	0.1555695	6.87E-06
A	G	0.03	-0.7423763	0.1535741	2.15E-06
T	C	0.03	-0.7423763	0.1535741	2.15E-06
A	G	0.03	-0.7423763	0.1535741	2.15E-06
G	A	0.02	0.9286522	0.2041341	7.77E-06
A	T	0.4	0.2314738	0.04941555	4.26E-06
G	A	0.08	-0.4479406	0.09847876	7.79E-06
A	G	0.08	-0.4501148	0.09745481	5.71E-06
C	A	0.23	0.3024394	0.06511168	5.06E-06
G	A	0.24	0.2968292	0.06294963	3.68E-06
A	G	0.22	0.3139623	0.0667087	3.84E-06
A	G	0.22	0.3183502	0.06662499	2.77E-06
G	A	0.22	0.3139623	0.0667087	3.84E-06
C	T	0.22	0.3139623	0.0667087	3.84E-06
G	T	0.21	0.3186003	0.06670568	2.79E-06
C	T	0.21	0.3132661	0.06647568	3.73E-06
A	G	0.21	0.3003985	0.0667198	9.51E-06
T	A	0.21	0.3093387	0.06704328	5.81E-06
T	C	0.21	0.3050007	0.06640011	6.37E-06
A	AATAGTT	0.22	0.2989297	0.06556764	7.41E-06
C	T	0.21	0.3020107	0.06675598	8.65E-06
C	A	0.22	0.2937476	0.06527879	9.62E-06
C	T	0.2	0.31562	0.0688009	6.54E-06
A	C	0.2	0.309082	0.06828319	8.56E-06
T	G	0.27	0.2430015	0.05393668	9.39E-06
A	G	0.45	-0.2560016	0.05520168	5.23E-06
G	A	0.45	-0.2541398	0.05515814	5.98E-06
GAGAT	G	0.25	-0.2961747	0.06259471	3.42E-06
T	C	0.01	-1.062831	0.2208959	2.38E-06
G	A	0.49	-0.2470114	0.0528026	4.36E-06
A	G	0.49	-0.2409547	0.05270136	7.00E-06

G	A	0.48	-0.2517285	0.05268717	2.77E-06
G	A	0.25	-0.2940053	0.06054615	1.94E-06
G	T	0.27	-0.2787763	0.05829044	2.71E-06
G	C	0.26	-0.2723829	0.05867994	5.13E-06
C	T	0.26	-0.2863051	0.05900795	1.97E-06
A	G	0.28	-0.2620672	0.05795105	8.72E-06
G	A	0.27	-0.2670999	0.05803952	6.13E-06
G	A	0.27	-0.2735539	0.05819679	3.94E-06
G	A	0.27	-0.2835586	0.05866799	2.15E-06
A	G	0.28	-0.2628805	0.0578533	7.93E-06
C	T	0.27	-0.2572352	0.05720693	9.76E-06
G	A	0.28	-0.2784737	0.05676765	1.54E-06
T	A	0.26	-0.2881695	0.05878869	1.56E-06
G	A	0.26	-0.2857898	0.05881424	1.91E-06
G	A	0.26	-0.2870266	0.05885291	1.75E-06
T	C	0.26	-0.2998785	0.05890992	6.40E-07
G	A	0.26	-0.2935176	0.05916428	1.18E-06
G	A	0.26	-0.2782883	0.05905453	3.73E-06
G	C	0.26	-0.2804521	0.05904443	3.15E-06
C	T	0.27	-0.2642539	0.05832435	8.40E-06
G	A	0.26	-0.2941456	0.0589608	1.04E-06
C	T	0.27	-0.2733305	0.05853673	4.53E-06
A	G	0.12	-0.3596162	0.07814403	6.13E-06
A	G	0.12	-0.3544048	0.07853006	9.08E-06
A	G	0.12	-0.3584941	0.07876287	7.67E-06
C	G	0.12	-0.3619412	0.07826188	5.54E-06
G	A	0.11	-0.3726297	0.08262633	9.21E-06
C	T	0.12	-0.3607187	0.0782627	5.94E-06
TG	T	0.12	-0.3544048	0.07853006	9.08E-06
C	G	0.12	-0.3607187	0.0782627	5.94E-06
T	G	0.12	-0.3607187	0.0782627	5.94E-06
G	A	0.12	-0.3535528	0.07834583	9.09E-06
T	C	0.01	-1.134473	0.2288677	1.21E-06
C	T	0.08	-0.4351633	0.09363373	5.00E-06
C	A	0.01	-1.09078	0.2400372	7.92E-06
T	C	0.06	0.5423112	0.1125253	2.29E-06
C	T	0.44	-0.2510081	0.05436042	5.72E-06
A	G	0.42	-0.2464071	0.05424798	7.99E-06
A	G	0.02	1.07171	0.210892	6.67E-07
G	GT	0.23	0.2907357	0.06418192	8.43E-06
A	AGTGTGT	0.01	-1.088018	0.2414194	9.33E-06
G	A	0.11	-0.3731687	0.0802357	4.93E-06
C	A	0.28	0.2663025	0.05803888	6.51E-06
G	A	0.01	-1.094462	0.2393885	7.01E-06
C	CA	0.01	1.02724	0.227841	9.26E-06
CT	C	0.06	0.5151441	0.1073169	2.50E-06
A	G	0.03	-0.7485184	0.1636616	6.95E-06
T	C	0.01	1.232332	0.2257772	1.05E-07
T	C	0.46	-0.2509487	0.05360631	4.30E-06
T	C	0.41	0.2545395	0.05334791	2.86E-06

G	A	0.4	0.2406182	0.05330472	9.04E-06
G	A	0.42	0.2400386	0.05329182	9.44E-06
C	T	0.41	0.2448841	0.0532271	6.16E-06
T	C	0.41	0.2459289	0.05326305	5.73E-06
G	A	0.41	0.247117	0.05324309	5.14E-06
C	T	0.41	0.2383509	0.05304861	9.91E-06
TC	T	0.41	0.240465	0.05347376	9.75E-06
A	T	0.04	0.6362974	0.1339569	3.15E-06
G	A	0.04	0.6362974	0.1339569	3.15E-06
C	T	0.04	0.6362974	0.1339569	3.15E-06
G	A	0.04	0.6362974	0.1339569	3.15E-06
A	G	0.04	0.6362974	0.1339569	3.15E-06
C	G	0.04	0.6362974	0.1339569	3.15E-06
G	A	0.04	0.6362974	0.1339569	3.15E-06
T	C	0.04	0.6351898	0.1346468	3.65E-06
A	G	0.04	0.6362974	0.1339569	3.15E-06
G	C	0.04	0.6362974	0.1339569	3.15E-06
T	C	0.04	0.6362974	0.1339569	3.15E-06
G	A	0.04	0.6362974	0.1339569	3.15E-06
T	TGA	0.01	-1.101031	0.2375046	5.27E-06
T	C	0.02	-0.9229113	0.1804551	5.71E-07
C	A	0.02	-0.8730763	0.1765846	1.28E-06
C	T	0.39	0.256753	0.05444206	3.67E-06
GT	G	0.4	0.2475965	0.05417037	7.04E-06
T	C	0.4	0.2629053	0.05379417	1.67E-06
A	G	0.01	-1.146895	0.2428676	3.57E-06
G	A	0.28	-0.2716015	0.05791214	4.13E-06
G	T	0.21	0.2969878	0.0660511	9.77E-06
GA	G	0.07	0.4874148	0.1069706	7.50E-06
G	A	0.33	-0.2625935	0.0574175	6.96E-06
A	G	0.33	-0.2650108	0.0574441	5.83E-06
G	A	0.03	-0.7220135	0.1567174	5.99E-06
G	A	0.07	-0.4709063	0.1015089	5.20E-06
A	AT	0.01	-1.107497	0.2405885	6.10E-06
A	T	0.02	-0.9252156	0.1847172	9.45E-07
G	A	0.02	-0.8814452	0.1817966	2.00E-06
T	C	0.02	-0.8814452	0.1817966	2.00E-06
AT	A	0.02	-0.9004892	0.1788221	8.32E-07
A	G	0.31	-0.2528754	0.05592839	8.75E-06
TC	T	0.35	-0.2455725	0.05368399	6.93E-06
C	T	0.08	-0.2635963	0.04402723	6.69E-09
AAACTAAACT	A	0.09	0.2049557	0.04499709	7.54E-06
AT	A	0.07	0.219579	0.04867207	9.13E-06
G	A	0.05	-0.286696	0.0570139	8.59E-07
G	T	0.02	-0.4919967	0.1074246	6.75E-06
A	T	0.19	-0.1559472	0.03366096	5.33E-06
T	G	0.37	-0.1171363	0.02524151	5.15E-06
C	T	0.15	-0.1806479	0.03744428	2.23E-06
C	T	0.15	-0.1672838	0.03715231	9.49E-06
CA	C	0.15	-0.1758377	0.03768223	4.59E-06

CTT	C	0.15	-0.1730254	0.03763764	6.26E-06
C	T	0.36	0.1170834	0.02598434	9.36E-06
T	C	0.01	-0.5862011	0.1216078	2.28E-06
C	CA	0.17	0.1639848	0.03596531	7.39E-06
C	CT	0.2	0.1512931	0.03321871	7.56E-06
AACACACACAC	A	0.15	-0.1848081	0.03738307	1.28E-06
AGTGTGT	A	0.03	-0.3444272	0.07446138	5.51E-06
C	T	0.17	0.1493886	0.03283881	7.74E-06
A	G	0.24	-0.1419722	0.02992607	3.23E-06
T	G	0.25	-0.1377431	0.02993496	6.14E-06
A	G	0.25	-0.1393377	0.02992048	4.79E-06
G	C	0.25	-0.1377431	0.02993496	6.14E-06
CATTT	C	0.07	-0.2571203	0.05093333	7.82E-07
G	A	0.15	0.1598494	0.03542703	9.11E-06
T	G	0.06	-0.203225	0.04335538	4.17E-06
G	A	0.3	-0.1207991	0.02555515	3.49E-06
G	C	0.2	-0.1354112	0.02747812	1.38E-06
C	CTGTGTG	0.09	-0.1931474	0.04122419	4.21E-06
A	G	0.22	-0.1261289	0.02772392	7.73E-06
GA	G	0.01	-0.4744322	0.1035219	6.66E-06
T	C	0.01	-0.5247695	0.1060143	1.24E-06
A	G	0.02	-0.4960242	0.09503789	3.42E-07
A	ATGTGTGTG	0.02	-0.437404	0.09524402	6.39E-06
TACAC	T	0.02	-0.4437062	0.09132357	1.91E-06
C	T	0.01	-0.4709888	0.1004387	4.14E-06
A	G	0.06	-0.2666748	0.04992256	1.87E-07
G	A	0.26	-0.122265	0.02653006	5.95E-06
T	A	0.06	-0.2476339	0.05086664	1.82E-06
CTGTGTGTG	C	0.25	-0.121645	0.02701828	9.50E-06
CTTTTG	C	0.09	-0.1808123	0.03959318	7.16E-06
G	A	0.11	-0.1873178	0.03682711	6.51E-07
G	A	0.02	-0.4448372	0.09519878	4.46E-06
A	G	0.01	-0.512423	0.1137172	9.35E-06
A	G	0.01	-0.512423	0.1137172	9.35E-06
A	T	0.03	-0.292959	0.06357871	5.96E-06
A	AGAAG	0.16	-0.1515764	0.03259715	4.94E-06
G	A	0.02	-0.3734452	0.07810149	2.72E-06
G	A	0.02	-0.4104431	0.08223839	1.03E-06
CGT	C	0.28	-0.1227455	0.02699196	7.79E-06
T	TGA	0.46	0.109963	0.02338104	3.89E-06
G	C	0.46	0.112123	0.02349104	2.83E-06
C	T	0.45	0.1116575	0.02353251	3.22E-06
T	C	0.46	0.1079423	0.02351524	6.45E-06
C	T	0.23	-0.1389384	0.02859556	1.91E-06
G	A	0.22	-0.1417823	0.02869709	1.30E-06
G	A	0.01	-0.5301218	0.1169508	8.31E-06
G	A	0.01	-0.5301218	0.1169508	8.31E-06
A	AT	0.01	-0.5301218	0.1169508	8.31E-06
G	T	0.01	-0.5301218	0.1169508	8.31E-06
C	A	0.01	-0.5301218	0.1169508	8.31E-06

C	T	0.01	-0.5301218	0.1169508	8.31E-06
A	G	0.01	-0.5301218	0.1169508	8.31E-06
G	A	0.01	-0.5301218	0.1169508	8.31E-06
C	T	0.01	-0.5301218	0.1169508	8.31E-06
A	G	0.01	-0.5301218	0.1169508	8.31E-06
C	T	0.01	-0.5301218	0.1169508	8.31E-06
T	C	0.01	-0.5301218	0.1169508	8.31E-06
C	T	0.01	-0.5301218	0.1169508	8.31E-06
C	T	0.01	-0.5301218	0.1169508	8.31E-06
G	A	0.01	-0.5301218	0.1169508	8.31E-06
A	G	0.01	-0.4830347	0.1016733	3.13E-06
G	A	0.04	-0.2718811	0.05822257	4.52E-06
A	G	0.01	-0.5027817	0.09952542	7.69E-07
T	G	0.03	-0.3223862	0.07088147	7.77E-06
G	C	0.03	-0.3223862	0.07088147	7.77E-06
C	T	0.03	-0.3223862	0.07088147	7.77E-06
G	A	0.03	-0.3680338	0.07514196	1.59E-06
T	C	0.03	-0.3680338	0.07514196	1.59E-06
G	A	0.01	-0.458165	0.1005686	7.51E-06
C	G	0.02	-0.4032726	0.08029306	8.84E-07
A	G	0.02	-0.4032726	0.08029306	8.84E-07
G	C	0.01	-0.4501093	0.09717186	5.35E-06
G	A	0.03	-0.2952681	0.06537714	8.94E-06
T	G	0.03	-0.3055284	0.06715078	7.71E-06
G	A	0.38	0.1096054	0.02382519	6.16E-06
G	A	0.08	-0.2207029	0.04353157	7.05E-07
A	G	0.08	-0.1898314	0.04141412	6.64E-06
G	A	0.08	-0.1983211	0.04192744	3.44E-06
G	A	0.08	-0.1920214	0.04154386	5.60E-06
A	C	0.08	-0.1920214	0.04154386	5.60E-06
G	A	0.08	-0.1958104	0.04192355	4.50E-06
A	G	0.09	-0.1944954	0.04128306	3.75E-06
G	A	0.09	-0.2014009	0.04113658	1.60E-06
G	T	0.08	-0.193349	0.04130722	4.30E-06
G	T	0.01	-0.4796031	0.09993463	2.51E-06
T	C	0.02	-0.3982942	0.08481705	4.02E-06
A	G	0.02	-0.3982942	0.08481705	4.02E-06
TG	T	0.19	0.1430515	0.03072721	4.82E-06
G	C	0.08	-0.1786655	0.03856813	5.34E-06
G	A	0.45	-0.1078662	0.02311543	4.59E-06
C	T	0.45	-0.1078662	0.02311543	4.59E-06
C	T	0.44	-0.1096301	0.02308792	3.17E-06
T	C	0.45	-0.1084742	0.02283012	3.12E-06
A	G	0.45	-0.1083723	0.02311949	4.17E-06
A	ACTG	0.45	-0.1057423	0.02306945	6.64E-06
A	G	0.45	-0.1088039	0.02308457	3.71E-06
G	A	0.45	-0.1088039	0.02308457	3.71E-06
A	G	0.46	-0.1043777	0.02287889	7.30E-06
T	C	0.02	-0.3413606	0.07484963	7.35E-06
A	G	0.01	-0.5726239	0.1113392	4.96E-07

C	T	0.02	-0.3516011	0.07473507	3.86E-06
C	T	0.01	-0.442625	0.09834935	9.58E-06
C	T	0.32	-0.1080378	0.02396085	9.23E-06
G	T	0.01	-0.485433	0.1028162	3.58E-06
GA	G	0.09	-0.1984103	0.04008121	1.24E-06
G	A	0.09	-0.1849644	0.04018556	6.10E-06
A	G	0.09	-0.1839891	0.04035343	7.39E-06
G	A	0.09	-0.1839891	0.04035343	7.39E-06
G	T	0.09	-0.1839891	0.04035343	7.39E-06
G	A	0.02	-0.3973273	0.08494786	4.37E-06
CT	C	0.09	-0.2043188	0.04175655	1.62E-06
T	C	0.09	-0.2043188	0.04175655	1.62E-06
A	C	0.09	-0.2094954	0.04178527	9.22E-07
C	T	0.09	-0.1976191	0.0418347	3.54E-06
G	A	0.09	-0.2043188	0.04175655	1.62E-06
C	T	0.09	-0.2043188	0.04175655	1.62E-06
A	C	0.09	-0.2050774	0.04179081	1.52E-06
G	A	0.09	-0.2043188	0.04175655	1.62E-06
C	T	0.08	-0.2137172	0.04197236	6.35E-07
A	G	0.09	-0.2043188	0.04175655	1.62E-06
A	G	0.09	-0.2043188	0.04175655	1.62E-06
G	A	0.09	-0.2043188	0.04175655	1.62E-06
G	GTTCT	0.11	0.1933846	0.03736978	4.25E-07
G	T	0.05	-0.2283116	0.05043945	8.55E-06
G	A	0.14	-0.144159	0.03183244	8.47E-06
C	T	0.02	-0.3326773	0.07144109	4.79E-06
A	C	0.03	-0.3085977	0.06589412	4.25E-06
G	A	0.01	-0.4883113	0.09932322	1.46E-06
T	C	0.01	-0.4936055	0.1062791	5.06E-06
C	T	0.01	-0.4936055	0.1062791	5.06E-06
A	T	0.02	-0.4047456	0.08866774	7.22E-06
C	T	0.28	-0.1194902	0.02539637	3.86E-06
A	AAAG	0.01	-0.5499412	0.109047	8.01E-07
G	T	0.02	-0.4775373	0.08722209	9.60E-08
G	C	0.02	-0.4775373	0.08722209	9.60E-08
T	A	0.02	-0.4775373	0.08722209	9.60E-08
A	C	0.02	-0.4775373	0.08722209	9.60E-08
C	T	0.02	-0.4242681	0.09417838	9.40E-06
G	T	0.04	-0.2759122	0.06033228	6.96E-06
G	T	0.4	-0.1182948	0.02299978	4.95E-07
A	G	0.01	-0.5062589	0.1105606	6.78E-06
A	T	0.02	-0.3456698	0.07622854	8.25E-06
TCTC	T	0.02	-0.3456698	0.07622854	8.25E-06
G	A	0.02	-0.3456698	0.07622854	8.25E-06
A	G	0.02	-0.3456698	0.07622854	8.25E-06
C	T	0.02	-0.3456698	0.07622854	8.25E-06
C	T	0.02	-0.3456698	0.07622854	8.25E-06
A	T	0.02	-0.3456698	0.07622854	8.25E-06
A	T	0.02	-0.3663855	0.07777857	3.76E-06
T	C	0.02	-0.3663855	0.07777857	3.76E-06

C	CA	0.02	-0.3663855	0.07777857	3.76E-06
C	T	0.02	-0.381561	0.07625147	9.65E-07
A	G	0.02	-0.381561	0.07625147	9.65E-07
T	C	0.02	-0.381561	0.07625147	9.65E-07
G	A	0.02	-0.4069269	0.07752254	2.96E-07
G	C	0.02	-0.381561	0.07625147	9.65E-07
A	G	0.03	-0.3850488	0.06888235	5.34E-08
G	A	0.02	-0.381561	0.07625147	9.65E-07
G	A	0.02	-0.381561	0.07625147	9.65E-07
G	A	0.02	-0.3643772	0.07765938	4.09E-06
G	A	0.02	-0.3971851	0.08345479	3.01E-06
A	G	0.36	-0.1090966	0.0241325	8.77E-06
C	T	0.24	-0.1223472	0.02672711	6.82E-06
C	G	0.02	-0.4530387	0.08693664	3.56E-07
G	A	0.02	-0.4055074	0.08774917	5.62E-06
G	A	0.01	-0.4748499	0.1056819	9.89E-06
A	G	0.04	-0.2728809	0.06018224	8.26E-06
A	G	0.01	-0.5218951	0.1098492	3.13E-06
G	A	0.03	-0.3325798	0.07144702	4.83E-06
TA	T	0.07	-0.2121907	0.04426053	2.57E-06
A	G	0.04	-0.2873891	0.06080642	3.50E-06
A	G	0.04	-0.2873891	0.06080642	3.50E-06
G	T	0.04	-0.2873891	0.06080642	3.50E-06
G	A	0.04	-0.2821471	0.05774671	1.68E-06
G	A	0.04	-0.2763267	0.05768381	2.61E-06
A	C	0.04	-0.286361	0.05700276	8.79E-07
C	T	0.04	-0.2656345	0.05822119	7.29E-06
C	G	0.11	-0.1889288	0.03803337	1.15E-06
A	T	0.01	-0.6039399	0.1177471	5.30E-07
G	C	0.31	-0.1180347	0.02414442	1.66E-06
C	T	0.31	-0.1151748	0.02414789	2.87E-06
C	T	0.3	-0.1147303	0.02416141	3.16E-06
A	G	0.31	-0.1125156	0.0242062	4.98E-06
A	T	0.3	-0.1147303	0.02416141	3.16E-06
C	T	0.3	-0.1156563	0.02422273	2.81E-06
G	A	0.3	-0.1127685	0.0241607	4.57E-06
A	G	0.32	-0.1089897	0.02419259	9.39E-06
C	T	0.04	0.6689524	0.1427163	4.19E-06
T	A	0.02	1.064232	0.2109937	8.00E-07
G	GAT	0.02	0.8706136	0.1837956	3.34E-06
A	C	0.24	0.2826136	0.0614154	6.14E-06
TGAAAG	T	0.2	0.3067962	0.06747419	7.83E-06
C	T	0.22	0.2937045	0.06520376	9.44E-06
C	T	0.22	0.2937045	0.06520376	9.44E-06
G	A	0.2	0.3307915	0.06629021	1.03E-06
G	A	0.22	0.2937045	0.06520376	9.44E-06
G	T	0.22	0.2937045	0.06520376	9.44E-06
A	T	0.2	0.3307915	0.06629021	1.03E-06
C	T	0.22	0.2937045	0.06520376	9.44E-06
A	G	0.2	0.3307915	0.06629021	1.03E-06

G	C	0.31	0.2757693	0.05839878	3.57E-06
A	G	0.31	0.2757693	0.05839878	3.57E-06
T	C	0.24	0.2788373	0.061999	9.73E-06
T	G	0.2	0.3070248	0.066865	6.42E-06
T	C	0.2	0.3070248	0.066865	6.42E-06
AT	A	0.23	0.3038219	0.06305241	2.30E-06
CA	C	0.2	0.3241467	0.06676601	1.94E-06
C	A	0.2	0.3342751	0.06630974	8.11E-07
T	C	0.2	0.3342751	0.06630974	8.11E-07
T	C	0.31	0.2637214	0.05825959	8.56E-06
T	G	0.24	0.2817919	0.06204711	8.01E-06
G	A	0.2	0.3283256	0.06691787	1.53E-06
CA	C	0.24	0.2849906	0.06275594	8.03E-06
T	A	0.24	0.2802418	0.06203616	8.91E-06
T	A	0.2	0.3391208	0.06666165	6.51E-07
G	A	0.2	0.3391208	0.06666165	6.51E-07
T	A	0.23	0.3131927	0.06335784	1.29E-06
T	A	0.31	0.265925	0.05904885	9.47E-06
G	A	0.24	0.2814101	0.06236481	9.11E-06
A	G	0.24	0.2919892	0.06227758	4.16E-06
C	T	0.2	0.3391208	0.06666165	6.51E-07
C	T	0.2	0.3151812	0.06725178	4.20E-06
A	G	0.23	0.3006721	0.06270985	2.57E-06
A	C	0.23	0.3131927	0.06335784	1.29E-06
T	C	0.24	0.2814101	0.06236481	9.11E-06
C	A	0.2	0.3151812	0.06725178	4.20E-06
G	A	0.31	0.2807319	0.05855725	2.57E-06
G	A	0.23	0.2887303	0.06383473	8.69E-06
A	G	0.2	0.3391208	0.06666165	6.51E-07
T	A	0.24	0.2814101	0.06236481	9.11E-06
C	T	0.24	0.282571	0.06263612	9.15E-06
C	G	0.23	0.3153529	0.06364781	1.22E-06
C	T	0.2	0.3418881	0.06700897	6.06E-07
A	T	0.23	0.3016086	0.06401958	3.76E-06
C	T	0.24	0.2838844	0.06262186	8.31E-06
T	C	0.31	0.2759238	0.05864304	3.86E-06
A	C	0.24	0.2852643	0.06262381	7.55E-06
A	G	0.23	0.3153529	0.06364781	1.22E-06
G	A	0.23	0.3153529	0.06364781	1.22E-06
T	C	0.21	0.3076179	0.0658237	4.46E-06
C	T	0.2	0.3418881	0.06700897	6.06E-07
T	A	0.31	0.2759238	0.05864304	3.86E-06
T	C	0.2	0.3418881	0.06700897	6.06E-07
TCAAACAAA	T	0.28	0.2801412	0.06137577	7.25E-06
C	T	0.27	0.3213279	0.06102827	2.74E-07
A	T	0.2	0.3251955	0.06755143	2.35E-06
G	A	0.2	0.3405485	0.06706024	6.79E-07
T	C	0.02	0.9540522	0.208783	7.08E-06
G	A	0.02	0.9540522	0.208783	7.08E-06
G	A	0.02	0.94732	0.2087413	8.13E-06

T	C	0.02	0.9540522	0.208783	7.08E-06
GA	G	0.02	1.042498	0.2156543	2.14E-06
ATATGTATGTATG	A	0.02	0.8916057	0.1883459	3.39E-06
A	ACAAACACACACACA	0.01	1.20687	0.2413988	9.88E-07
C	T	0.02	0.9576529	0.2106119	7.83E-06
A	C	0.04	0.6304242	0.1361968	5.44E-06
GAC	G	0.19	0.3367777	0.07365861	7.00E-06
A	G	0.27	0.28767	0.06134029	4.14E-06
G	A	0.22	0.2951049	0.06519718	8.57E-06
C	T	0.23	0.3062232	0.0650523	3.82E-06
G	A	0.39	0.2580986	0.05344171	2.19E-06
CGT	C	0.01	1.262252	0.2500825	7.87E-07
T	C	0.32	0.2818654	0.05907648	2.86E-06
C	T	0.2	0.3033592	0.06566189	5.66E-06
G	A	0.15	-0.3577449	0.07403371	2.16E-06
T	G	0.03	0.742333	0.1627777	7.38E-06
C	A	0.01	1.234127	0.268078	6.09E-06
A	G	0.02	1.008364	0.2220103	8.00E-06
T	G	0.2	0.3000899	0.06498485	5.72E-06
A	T	0.2	0.3089657	0.06695896	5.81E-06
G	A	0.2	0.3015155	0.06693246	9.42E-06
G	C	0.07	0.4789825	0.1049494	7.26E-06
G	A	0.37	-0.2498638	0.05086755	1.49E-06
C	A	0.02	0.9965196	0.1875336	2.16E-07
G	T	0.02	0.8265283	0.1755449	3.81E-06
C	G	0.06	0.5149683	0.1146421	9.96E-06
G	T	0.12	0.3679196	0.08155091	9.15E-06
T	A	0.45	-0.2461313	0.05324657	5.60E-06
T	C	0.45	-0.2489513	0.05321153	4.35E-06
T	C	0.45	-0.2471103	0.05326969	5.20E-06
C	T	0.07	0.4634669	0.1018407	7.69E-06
GCA	G	0.07	0.4763943	0.0995757	2.69E-06
T	C	0.07	0.466776	0.1022724	7.26E-06
T	TG	0.04	0.6592387	0.1400231	3.81E-06
C	A	0.01	1.188589	0.2549426	4.69E-06
C	T	0.04	0.7104831	0.1498213	3.26E-06
C	CGT	0.07	0.4928049	0.1061044	5.07E-06
G	C	0.07	0.5120587	0.1047014	1.65E-06
T	C	0.08	0.4721742	0.1003061	3.82E-06
T	C	0.08	0.4569519	0.09993002	6.98E-06
A	G	0.08	0.4696304	0.1004976	4.46E-06
A	G	0.03	0.8161825	0.1638762	1.08E-06
A	T	0.23	0.2832985	0.06266618	8.78E-06
C	T	0.19	0.3285982	0.0684527	2.50E-06
TA	T	0.19	0.3469805	0.06826786	6.65E-07
C	T	0.03	0.7755325	0.1621014	2.69E-06
AAG	A	0.01	1.245256	0.2751681	8.60E-06
G	A	0.12	0.3793296	0.0820843	5.63E-06
G	A	0.12	0.3915178	0.0814013	2.40E-06
A	G	0.12	0.4100202	0.08089996	7.13E-07

A	G	0.12	0.3915178	0.0814013	2.40E-06
G	A	0.11	0.4084126	0.0871936	4.25E-06
G	A	0.1	0.477719	0.09057065	2.62E-07
G	A	0.11	0.4042562	0.08782298	6.10E-06
A	C	0.1	0.4100031	0.08913088	6.19E-06
A	T	0.1	0.4100031	0.08913088	6.19E-06
A	T	0.06	0.5058338	0.1124588	9.71E-06
G	A	0.01	1.210103	0.2557977	3.44E-06
G	A	0.15	0.3463954	0.07614735	7.76E-06
A	T	0.19	0.3133776	0.06792146	5.82E-06
G	T	0.19	0.3133776	0.06792146	5.82E-06
A	T	0.19	0.3075591	0.06840854	9.79E-06
T	C	0.29	0.2630677	0.05813731	8.62E-06
G	GA	0.01	1.042361	0.2167056	2.39E-06
C	T	0.01	1.140393	0.2530548	9.35E-06
A	AC	0.01	1.171885	0.2519028	4.90E-06
C	T	0.01	1.171885	0.2519028	4.90E-06
G	A	0.38	0.2454107	0.0544775	9.42E-06
A	G	0.01	1.212444	0.2633948	6.10E-06
G	T	0.01	1.212444	0.2633948	6.10E-06
G	A	0.31	0.2611109	0.05712429	7.04E-06
T	C	0.01	0.8642095	0.1451526	9.91E-09
T	G	0.1	-0.3686263	0.061437	6.40E-09
G	A	0.02	-0.8669387	0.1426119	5.00E-09
C	T	0.01	-0.5365229	0.1009968	2.17E-07
G	A	0.02	-0.4300313	0.08301799	4.15E-07
G	T	0.02	-0.4134269	0.0861003	2.48E-06
A	G	0.02	-0.3291575	0.07271948	8.55E-06
C	T	0.01	-0.5537784	0.106408	3.68E-07
C	T	0.05	-0.2408562	0.05315721	8.38E-06
T	G	0.04	-0.2907218	0.05812833	9.77E-07
G	T	0.04	-0.3188092	0.06078536	3.02E-07
G	A	0.03	-0.3177632	0.06939924	6.79E-06
C	T	0.04	-0.299668	0.06000508	1.01E-06
T	G	0.04	-0.3134023	0.06309008	1.15E-06
T	C	0.04	-0.3224047	0.06253654	4.67E-07
T	A	0.04	-0.3065946	0.06379715	2.43E-06
G	A	0.05	-0.2934805	0.05626254	3.47E-07
G	A	0.06	-0.2118801	0.04674338	8.31E-06
C	T	0.06	-0.2118801	0.04674338	8.31E-06
C	T	0.01	-0.5207655	0.1070775	1.87E-06
C	T	0.01	-0.487742	0.09867412	1.29E-06
T	TA	0.04	-0.267984	0.05769762	5.06E-06
A	T	0.1	-0.1700489	0.03784709	9.90E-06
G	A	0.02	-0.3372466	0.07408899	7.64E-06
T	C	0.02	-0.3760495	0.08133623	5.56E-06
T	G	0.19	-0.135541	0.02994756	8.57E-06
TAC	T	0.02	-0.4149849	0.08606317	2.26E-06
CA	C	0.17	-0.1551979	0.03405576	7.47E-06
C	T	0.07	-0.2151342	0.04671206	6.03E-06

G	GACACAC	0.27	-0.1403147	0.02940734	2.85E-06
T	C	0.02	-0.4077396	0.08599627	3.27E-06
A	AT	0.02	-0.4077396	0.08599627	3.27E-06
G	T	0.02	-0.4111821	0.09095026	8.76E-06
T	C	0.41	0.1174755	0.025244	4.86E-06
G	A	0.41	0.1174755	0.025244	4.86E-06
A	C	0.41	0.1178753	0.02505973	3.88E-06
C	T	0.1	-0.1776683	0.03844709	5.62E-06
G	A	0.03	-0.3134959	0.06746874	5.02E-06
CCAT	C	0.48	0.1005472	0.02224202	8.77E-06
C	CA	0.37	-0.1117404	0.0244332	6.95E-06
C	G	0.02	-0.3886862	0.08061159	2.26E-06
A	T	0.42	-0.1120167	0.02330895	2.43E-06
C	CA	0.17	0.1377163	0.03037345	8.27E-06
A	GATGATGGTGATGGT	0.01	-0.4757274	0.1012711	3.99E-06
T	A	0.01	-0.5200246	0.1092617	3.01E-06
C	A	0.01	-0.4796608	0.104087	5.95E-06
C	T	0.01	-0.4796608	0.104087	5.95E-06
A	G	0.01	-0.4796608	0.104087	5.95E-06
T	TTG	0.01	-0.4796608	0.104087	5.95E-06
T	TA	0.01	-0.4890407	0.1046514	4.45E-06
C	A	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	A	0.01	-0.4796608	0.104087	5.95E-06
C	G	0.01	-0.4796608	0.104087	5.95E-06
C	G	0.01	-0.5218303	0.1067577	1.66E-06
G	T	0.01	-0.4796608	0.104087	5.95E-06
GC	G	0.01	-0.5242781	0.1066382	1.46E-06
C	T	0.01	-0.4796608	0.104087	5.95E-06
C	G	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
G	A	0.01	-0.4931435	0.1013965	1.86E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
C	T	0.01	-0.4796608	0.104087	5.95E-06
A	T	0.01	-0.4796608	0.104087	5.95E-06
A	G	0.01	-0.4796608	0.104087	5.95E-06
A	G	0.01	-0.4796608	0.104087	5.95E-06
C	T	0.01	-0.4796608	0.104087	5.95E-06
G	A	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	G	0.01	-0.4796608	0.104087	5.95E-06
G	A	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
T	C	0.01	-0.4796608	0.104087	5.95E-06
G	A	0.01	-0.4796608	0.104087	5.95E-06
T	A	0.01	-0.4796608	0.104087	5.95E-06

T	A	0.01	-0.4796608	0.104087	5.95E-06
G	A	0.01	-0.4796608	0.104087	5.95E-06
G	T	0.02	-0.4617509	0.09681584	2.88E-06
A	C	0.02	-0.4266545	0.08925837	2.74E-06
A	T	0.02	-0.4136633	0.08615069	2.48E-06
G	A	0.02	-0.4617509	0.09681584	2.88E-06
C	T	0.02	-0.4617509	0.09681584	2.88E-06
T	C	0.02	-0.4617509	0.09681584	2.88E-06
C	T	0.02	-0.3844634	0.08456378	7.83E-06
C	A	0.01	-0.4827522	0.1010984	2.80E-06
A	G	0.01	-0.4705995	0.1038347	8.34E-06
G	GGTGTGTGTGT	0.02	-0.3950874	0.08752801	9.04E-06
CTT	C	0.12	0.1936618	0.03835403	7.78E-07
G	C	0.12	0.1936618	0.03835403	7.78E-07
A	G	0.12	0.1936618	0.03835403	7.78E-07
TAC	T	0.12	0.1869943	0.0394657	3.32E-06
C	G	0.12	0.1936618	0.03835403	7.78E-07
C	T	0.12	0.1867163	0.03854168	2.04E-06
T	G	0.12	0.1847846	0.03824608	2.16E-06
G	A	0.12	0.1971709	0.0384774	5.43E-07
A	ATTAT	0.15	0.1640448	0.03651676	9.93E-06
C	T	0.12	0.1932934	0.03845816	8.69E-07
C	T	0.12	0.1932934	0.03845816	8.69E-07
C	T	0.12	0.1852131	0.03863961	2.58E-06
TG	T	0.11	0.2094114	0.04314289	1.95E-06
G	A	0.12	0.1932934	0.03845816	8.69E-07
G	C	0.12	0.1932934	0.03845816	8.69E-07
G	A	0.12	0.1932934	0.03845816	8.69E-07
C	T	0.12	0.1997761	0.03854634	4.09E-07
A	G	0.11	0.1996526	0.03942756	7.26E-07
A	G	0.12	0.1997761	0.03854634	4.09E-07
A	C	0.12	0.1908919	0.03703022	4.68E-07
T	C	0.1	0.216559	0.04060258	1.95E-07
G	A	0.12	0.1939068	0.03726986	3.71E-07
A	G	0.12	0.2029199	0.03741421	1.24E-07
C	G	0.12	0.1908919	0.03703022	4.68E-07
T	A	0.12	0.1908919	0.03703022	4.68E-07
C	T	0.03	0.3751314	0.07922564	3.37E-06
A	G	0.02	0.3795052	0.08349267	7.87E-06
C	T	0.04	0.3092469	0.06299875	1.51E-06
G	C	0.02	0.4333831	0.09641947	9.82E-06
CGT	C	0.01	0.4899043	0.1075967	7.60E-06
T	C	0.02	0.3510397	0.0770367	7.48E-06
T	C	0.02	0.3510397	0.0770367	7.48E-06
C	CAT	0.3	-0.1288324	0.02681807	2.46E-06
T	C	0.4	0.1194678	0.02626338	7.75E-06
A	C	0.4	0.1186344	0.02641253	9.96E-06
T	C	0.43	0.1171606	0.02476776	3.44E-06
A	T	0.08	-0.2065167	0.04519133	7.06E-06
G	A	0.04	0.2948603	0.06541578	9.29E-06

T	C	0.07	0.2430675	0.05087235	2.77E-06
A	G	0.04	0.3398591	0.06715056	7.35E-07
G	A	0.05	0.2717467	0.05742472	3.41E-06
C	T	0.04	0.3398591	0.06715056	7.35E-07
GT	G	0.05	0.2587144	0.05541593	4.54E-06
T	A	0.05	0.2559632	0.0566582	8.89E-06
C	T	0.15	0.1592595	0.03522921	8.77E-06
T	C	0.03	0.3624168	0.07864484	5.95E-06
CT	C	0.03	0.3590092	0.07827053	6.55E-06
T	G	0.01	0.5507476	0.119316	5.75E-06
T	TA	0.01	0.5507476	0.119316	5.75E-06
T	C	0.34	0.1209987	0.02632139	6.26E-06
T	C	0.39	0.1204755	0.02569063	4.14E-06
C	A	0.39	0.1172869	0.02568082	7.15E-06
A	G	0.39	0.1172869	0.02568082	7.15E-06
A	G	0.34	0.1201215	0.02623779	6.80E-06
G	A	0.33	0.1209124	0.02656051	7.63E-06
C	T	0.39	0.1197871	0.02582001	5.18E-06
C	G	0.34	0.1263601	0.02616767	2.19E-06
G	T	0.33	0.1221378	0.02629796	5.07E-06
TG	T	0.33	0.1199596	0.02627553	7.20E-06
C	A	0.32	0.1266004	0.02652081	2.82E-06
G	A	0.33	0.1299113	0.02648056	1.53E-06
C	T	0.32	0.1253757	0.02683847	4.48E-06
G	A	0.32	0.1261802	0.02659319	3.22E-06
T	C	0.33	0.1253272	0.02651754	3.50E-06
C	T	0.33	0.1253272	0.02651754	3.50E-06
T	C	0.33	0.1218027	0.02658719	6.71E-06
G	A	0.31	0.1221236	0.02695035	8.36E-06
A	T	0.01	0.5504706	0.1211934	7.98E-06
G	GTCCA	0.08	0.2232718	0.04732374	3.64E-06
G	A	0.02	0.4295656	0.09261903	5.21E-06
A	G	0.08	0.2152069	0.04711227	7.12E-06
G	A	0.07	0.2227236	0.04889144	7.52E-06
G	T	0.04	0.2980949	0.06479242	6.15E-06
T	A	0.16	-0.1738229	0.0373006	4.72E-06
C	A	0.15	0.1651046	0.03668173	9.56E-06
G	A	0.15	0.1651046	0.03668173	9.56E-06
C	A	0.15	0.1651046	0.03668173	9.56E-06
G	A	0.15	0.1651046	0.03668173	9.56E-06
G	A	0.04	0.3530164	0.07148472	1.31E-06
A	C	0.2	-0.1466483	0.03179985	5.86E-06
GA	G	0.36	0.1202459	0.0262864	6.92E-06
G	T	0.21	0.1459888	0.03207257	7.65E-06
T	C	0.05	-0.2789131	0.0611169	7.26E-06
CA	C	0.17	0.1680321	0.03440487	1.70E-06
TAC	T	0.29	0.1386568	0.03044413	7.56E-06
TAA	T	0.25	0.1453165	0.02680448	1.26E-07
G	A	0.02	0.4761047	0.1023879	4.94E-06
C	G	0.28	-0.1387094	0.02714903	5.84E-07

T	TA	0.4	-0.1214803	0.02685441	8.66E-06
G	A	0.09	-0.2101111	0.0456884	6.21E-06
C	T	0.09	-0.2161669	0.04486997	2.31E-06
G	C	0.09	-0.2145779	0.04505256	2.96E-06
A	G	0.47	-0.1203675	0.02634811	7.11E-06
TACAC	T	0.1	-0.2075851	0.0456253	7.72E-06
G	A	0.03	0.3843571	0.08260861	4.88E-06
C	A	0.09	-0.2059321	0.04565772	9.18E-06
G	C	0.21	-0.1451709	0.0320512	8.44E-06
C	G	0.1	0.2032733	0.0438046	5.16E-06
C	G	0.06	0.2486532	0.05475974	8.03E-06
C	A	0.33	-0.1173604	0.02524583	4.97E-06
G	A	0.03	-0.3783493	0.0829326	7.31E-06
C	T	0.03	-0.3776653	0.08318298	8.05E-06
A	AG	0.03	-0.3776653	0.08318298	8.05E-06
G	GGT	0.16	-0.3948489	0.08172033	2.21E-06
T	A	0.01	-1.199226	0.261348	6.62E-06
C	T	0.14	-0.3728739	0.07944654	4.15E-06
T	TC	0.14	-0.3568146	0.07849367	7.99E-06
T	C	0.41	0.2558949	0.0569256	9.97E-06
T	G	0.41	0.2573626	0.05707844	9.39E-06
T	C	0.02	-0.8538417	0.1840962	5.31E-06
A	T	0.02	-0.8538417	0.1840962	5.31E-06
T	C	0.03	-0.8358033	0.1763724	3.38E-06
T	A	0.02	-0.8538417	0.1840962	5.31E-06
G	A	0.02	-0.8538417	0.1840962	5.31E-06
G	A	0.02	-0.8538417	0.1840962	5.31E-06
G	A	0.02	-0.8538417	0.1840962	5.31E-06
C	G	0.02	-0.8538417	0.1840962	5.31E-06
G	T	0.02	-0.8963079	0.1923767	4.84E-06
T	TA	0.02	-0.8538417	0.1840962	5.31E-06
G	C	0.02	-0.8538417	0.1840962	5.31E-06
T	C	0.02	-0.8538417	0.1840962	5.31E-06
G	A	0.02	-0.8538417	0.1840962	5.31E-06
T	C	0.02	-0.8538417	0.1840962	5.31E-06
ACCAAATTACATCAGC	A	0.02	-0.9012498	0.1858667	2.04E-06
T	C	0.02	-0.8538417	0.1840962	5.31E-06
C	A	0.02	-0.8538417	0.1840962	5.31E-06
T	C	0.02	-0.8538417	0.1840962	5.31E-06
A	C	0.02	-0.8538417	0.1840962	5.31E-06
C	T	0.02	-0.8706368	0.1874327	5.15E-06
GGGAA	G	0.02	-0.8538417	0.1840962	5.31E-06
G	A	0.02	-0.8538417	0.1840962	5.31E-06
T	A	0.02	-0.8538417	0.1840962	5.31E-06
A	T	0.02	-0.8538417	0.1840962	5.31E-06
AC	A	0.02	-0.8538417	0.1840962	5.31E-06
C	T	0.02	-0.8538417	0.1840962	5.31E-06
G	C	0.02	-0.8538417	0.1840962	5.31E-06
C	T	0.02	-0.8538417	0.1840962	5.31E-06
GA	G	0.02	-0.8585884	0.1902968	9.28E-06

C	T	0.02	-0.8757116	0.1870837	4.39E-06
G	C	0.04	0.6616455	0.1438668	6.32E-06
G	C	0.04	0.6616455	0.1438668	6.32E-06
A	G	0.03	0.7781723	0.1713175	8.12E-06
A	G	0.25	-0.2771365	0.06083792	7.67E-06
C	A	0.01	1.176428	0.2441948	2.36E-06
C	A	0.34	-0.2609895	0.05599563	4.80E-06
G	A	0.46	0.2421007	0.05201793	4.94E-06
G	A	0.49	0.241418	0.05370749	9.98E-06
G	A	0.49	-0.2455983	0.05319662	5.84E-06
G	T	0.38	0.251343	0.05531756	8.07E-06
T	C	0.5	-0.2478571	0.05326504	4.96E-06
C	T	0.39	-0.2569948	0.05383081	2.88E-06
T	C	0.46	-0.2693102	0.05324252	7.67E-07
A	G	0.46	-0.2565325	0.05341812	2.53E-06
T	G	0.46	-0.2698492	0.05330796	7.52E-07
C	T	0.41	0.247118	0.05374653	6.35E-06
C	T	0.01	1.177358	0.2364119	1.11E-06
C	G	0.01	1.177358	0.2364119	1.11E-06
T	A	0.43	-0.2614484	0.0529432	1.35E-06
G	C	0.02	-0.8259995	0.1776287	5.03E-06
T	G	0.03	-0.7571884	0.1625586	4.86E-06
T	A	0.43	-0.238944	0.05053657	3.55E-06
A	G	0.01	1.117436	0.2436688	6.70E-06
G	C	0.04	-0.6668319	0.1441995	5.65E-06
G	A	0.04	-0.6668319	0.1441995	5.65E-06
G	A	0.03	0.7899344	0.1671716	3.59E-06
T	C	0.28	0.3210393	0.0606814	2.49E-07
C	T	0.05	0.5897564	0.1272631	5.41E-06
T	TTC	0.09	-0.4722433	0.1000563	3.68E-06
A	G	0.12	-0.3883609	0.08638517	9.95E-06
C	A	0.14	-0.389871	0.07815705	1.07E-06
C	T	0.05	0.5732465	0.1244874	6.16E-06
TC	T	0.06	-0.5602897	0.1196359	4.34E-06
A	G	0.38	0.258511	0.05425563	3.00E-06
T	C	0.37	0.2676801	0.05421544	1.35E-06
A	AG	0.38	0.2695465	0.0539468	1.03E-06
A	G	0.37	0.2773002	0.05417157	5.74E-07
G	A	0.01	1.211517	0.2693813	9.88E-06
T	G	0.03	0.8217531	0.1725177	3.02E-06
G	A	0.29	0.2992403	0.05868324	6.30E-07
A	G	0.4	-0.2631443	0.05593103	3.94E-06
A	T	0.22	0.2992792	0.06627772	9.13E-06
G	T	0.49	0.248203	0.05496218	9.11E-06
C	T	0.48	0.2489886	0.05489036	8.34E-06
G	C	0.48	0.2587231	0.05478356	3.63E-06
T	C	0.33	0.2728133	0.05782653	3.72E-06
G	GACTC	0.08	0.4771751	0.1056252	9.04E-06
TA	T	0.06	0.5589889	0.1211938	5.96E-06
C	T	0.38	0.2574997	0.05455554	3.68E-06

A	G	0.38	0.2650518	0.05459391	1.99E-06
A	C	0.43	0.2393894	0.05301776	9.14E-06
T	C	0.43	0.237227	0.05275407	9.90E-06
G	A	0.43	0.2417301	0.05283514	7.02E-06
T	C	0.43	0.2427494	0.05290432	6.62E-06
C	G	0.43	0.2393433	0.05304963	9.28E-06
G	C	0.43	0.2393433	0.05304963	9.28E-06
G	C	0.43	0.2393433	0.05304963	9.28E-06
TCACA	T	0.02	-0.8099422	0.1766662	6.74E-06
G	GAC	0.04	0.6316615	0.139708	8.90E-06
T	C	0.07	-0.4881496	0.1079058	8.86E-06
AAG	A	0.12	0.4396587	0.08822472	1.10E-06
G	A	0.02	-1.003459	0.2167454	5.56E-06
G	GA	0.03	-0.6830711	0.1510069	8.88E-06
C	T	0.29	-0.2692047	0.0595615	9.02E-06
T	C	0.32	0.2736107	0.05966085	6.74E-06
A	G	0.09	0.4309102	0.09281511	5.24E-06
G	C	0.39	0.2617509	0.05753277	7.92E-06
C	G	0.31	0.2856469	0.05980984	2.88E-06
T	C	0.3	0.2751086	0.06018563	7.20E-06
T	C	0.31	0.277023	0.05965435	5.22E-06
T	C	0.32	0.2785831	0.05969448	4.71E-06
T	C	0.32	0.2785831	0.05969448	4.71E-06
C	T	0.3	0.2751086	0.06018563	7.20E-06
G	A	0.3	0.2751086	0.06018563	7.20E-06
A	G	0.31	0.2757437	0.05971099	5.85E-06
G	A	0.3	0.2741958	0.06019377	7.72E-06
G	A	0.3	0.2796076	0.06035559	5.48E-06
G	A	0.3	0.2753436	0.06042865	7.68E-06
G	C	0.3	0.2753436	0.06042865	7.68E-06
C	G	0.3	0.2753436	0.06042865	7.68E-06
T	C	0.32	0.2738392	0.05978729	6.92E-06
C	G	0.31	0.2783438	0.0596259	4.68E-06
A	G	0.44	0.256583	0.05542819	5.57E-06
G	T	0.31	0.2942832	0.05891676	1.04E-06
A	G	0.32	0.2857257	0.05904642	2.16E-06
G	A	0.32	0.2818177	0.05924369	3.14E-06
C	T	0.29	0.2801987	0.05993074	4.53E-06
A	G	0.32	0.2857257	0.05904642	2.16E-06
CAGA	C	0.3	0.2876779	0.0598468	2.50E-06
G	A	0.29	0.2806702	0.05978487	4.16E-06
G	A	0.3	0.2834393	0.05982368	3.42E-06
A	G	0.3	0.2822591	0.05995908	3.92E-06
A	G	0.32	0.2759399	0.05909267	4.65E-06
C	G	0.32	0.2814684	0.05950437	3.54E-06
G	A	0.31	0.2773403	0.05931617	4.53E-06
C	T	0.32	0.2850456	0.05929749	2.50E-06
G	A	0.32	0.2922133	0.05925613	1.41E-06
A	G	0.27	0.2860464	0.0629192	8.03E-06
G	A	0.29	0.3065654	0.06125165	9.96E-07

G	C	0.02	0.906398	0.1958163	5.58E-06
A	AC	0.02	-1.023705	0.2246508	7.67E-06
T	C	0.01	-1.123998	0.2410561	4.79E-06
A	G	0.01	-1.453506	0.2702413	1.64E-07
G	A	0.05	-0.5703151	0.1251583	7.67E-06
T	TC	0.18	-0.3443639	0.0738486	4.79E-06
G	A	0.18	-0.3507345	0.07322641	2.70E-06
C	T	0.18	-0.3507345	0.07322641	2.70E-06
A	G	0.18	-0.3498529	0.07321419	2.84E-06
T	G	0.18	-0.3485629	0.07322871	3.10E-06
C	T	0.18	-0.3373628	0.07347156	6.57E-06
G	T	0.19	-0.336031	0.07121132	3.73E-06
AAAAT	A	0.2	-0.340219	0.06841202	1.16E-06
C	T	0.19	-0.3391365	0.07071964	2.63E-06
C	CTT	0.19	-0.3408765	0.07075381	2.38E-06
G	A	0.18	-0.3333157	0.07386421	9.31E-06
C	T	0.19	-0.3444385	0.07057976	1.78E-06
A	G	0.19	-0.3336633	0.07119055	4.30E-06
T	C	0.19	-0.3464482	0.07057592	1.56E-06
A	G	0.19	-0.3356343	0.07118062	3.79E-06
TA	T	0.19	-0.3391171	0.07037279	2.37E-06
G	A	0.19	-0.3340593	0.07091081	3.86E-06
G	A	0.2	-0.3314271	0.07065606	4.23E-06
C	T	0.2	-0.3373799	0.07020183	2.51E-06
G	A	0.2	-0.3422138	0.07007157	1.75E-06
A	G	0.2	-0.3314271	0.07065606	4.23E-06
T	C	0.2	-0.3420115	0.07045364	2.01E-06
TTTTTCTA	T	0.19	-0.3379882	0.07096576	3.06E-06
C	T	0.2	-0.3314271	0.07065606	4.23E-06
T	A	0.2	-0.3382284	0.07052052	2.62E-06
C	T	0.2	-0.338673	0.07064755	2.65E-06
C	G	0.19	-0.3262755	0.07119592	6.84E-06
G	A	0.19	-0.3254116	0.07117993	7.18E-06
A	AACAGT	0.33	-0.2583508	0.05629426	6.65E-06
G	T	0.36	0.2650853	0.05838448	8.24E-06
G	A	0.36	0.2650853	0.05838448	8.24E-06
T	A	0.36	0.2649433	0.05805932	7.45E-06
T	C	0.36	0.2649433	0.05805932	7.45E-06
T	A	0.34	0.2726503	0.0588439	5.46E-06
T	A	0.36	0.2620057	0.05796798	9.02E-06
C	T	0.36	0.2639519	0.05800951	7.90E-06
A	G	0.36	0.2649433	0.05805932	7.45E-06
C	T	0.13	0.3834069	0.08328701	6.24E-06
G	C	0.13	0.3838179	0.08310277	5.84E-06
G	A	0.13	0.3838179	0.08310277	5.84E-06
GGCATTACATCTCGA/	C	0.13	0.3971757	0.08313218	2.86E-06
A	G	0.13	0.3838179	0.08310277	5.84E-06
TA	T	0.13	0.3838179	0.08310277	5.84E-06
G	A	0.13	0.3838179	0.08310277	5.84E-06
A	T	0.14	0.3721434	0.07992482	4.94E-06

A	G	0.14	0.3642666	0.08034491	8.48E-06
C	G	0.14	0.3593036	0.0795349	9.11E-06
CT	C	0.14	0.3586805	0.07968024	9.77E-06
A	G	0.14	0.3593036	0.0795349	9.11E-06
T	C	0.14	0.3593036	0.0795349	9.11E-06
G	A	0.14	0.3796276	0.07878287	2.37E-06
G	C	0.15	0.3770181	0.07868398	2.68E-06
A	G	0.15	0.3770181	0.07868398	2.68E-06
C	T	0.15	0.3770181	0.07868398	2.68E-06
T	C	0.14	0.3806152	0.07931897	2.60E-06
C	A	0.17	0.339744	0.07472656	8.02E-06
A	G	0.14	0.3810411	0.07719208	1.37E-06
G	C	0.14	0.3810411	0.07719208	1.37E-06
T	C	0.14	0.389367	0.07793826	1.04E-06
C	T	0.14	0.4095641	0.07938963	4.79E-07
G	T	0.14	0.3849756	0.07768374	1.26E-06
G	C	0.14	0.3728601	0.07779091	2.66E-06
C	G	0.14	0.4006275	0.07920941	7.76E-07
G	A	0.14	0.4004005	0.07949108	8.56E-07
T	C	0.13	0.4163324	0.08013412	4.01E-07
C	T	0.12	0.423744	0.08366407	7.51E-07
A	T	0.14	0.4096481	0.07903886	4.27E-07
A	G	0.14	0.4096481	0.07903886	4.27E-07
G	A	0.14	0.3870976	0.07888774	1.58E-06
C	T	0.14	0.3983072	0.07855131	7.30E-07
C	T	0.14	0.3983072	0.07855131	7.30E-07
T	G	0.14	0.3804558	0.07927155	2.59E-06
G	A	0.14	0.3804558	0.07927155	2.59E-06
A	ATGTGTGTGTG	0.12	-0.3920712	0.0847686	5.67E-06
C	T	0.03	-0.7032003	0.1504804	4.58E-06
G	A	0.03	-0.8049822	0.1721641	4.53E-06
G	A	0.03	-0.6902148	0.153399	9.86E-06
G	A	0.03	-0.6902148	0.153399	9.86E-06
A	G	0.33	0.2682	0.05704387	4.03E-06
G	GA	0.1	-0.4088501	0.08934263	7.04E-06
T	TAA	0.03	0.7529768	0.1598421	3.87E-06
T	TTGTG	0.23	0.3001586	0.06649649	9.25E-06
T	A	0.42	0.2677888	0.05731004	4.59E-06
C	T	0.4	0.2666612	0.05731551	5.02E-06
C	T	0.4	0.2611053	0.05727412	7.60E-06
C	T	0.03	-0.7947632	0.1701123	4.60E-06
G	T	0.01	1.18722	0.260736	7.79E-06
G	A	0.01	-1.218508	0.2438549	1.04E-06
T	G	0.01	-1.075974	0.2283552	3.85E-06
CCT	C	0.1	0.4334088	0.09570231	8.67E-06
∩ATCAGCATCACCGCC	C	0.01	-1.129663	0.2274074	1.19E-06
G	A	0.27	0.2809541	0.06099528	6.17E-06
C	T	0.28	0.2923368	0.06029349	2.06E-06
A	AACACAC	0.06	0.5154428	0.113599	8.35E-06
A	C	0.02	-0.9287577	0.2027031	6.87E-06

GGA	G	0.01	-1.166396	0.2558699	7.61E-06
A	AT	0.01	-1.184103	0.2508733	3.71E-06
G	A	0.01	-1.381738	0.2645536	3.51E-07
T	C	0.03	-0.7380224	0.1588314	5.15E-06
T	C	0.02	-0.823553	0.18089	7.81E-06
T	G	0.01	-1.163424	0.2377554	1.68E-06
A	G	0.01	-1.138693	0.2453047	5.26E-06
A	G	0.02	-0.9519629	0.1859864	5.81E-07
G	C	0.02	-1.010591	0.2225205	8.20E-06
T	TCATC	0.48	-0.2466768	0.05220944	3.63E-06
G	A	0.01	-1.160708	0.2480275	4.44E-06
C	T	0.02	-0.9944506	0.2116343	4.08E-06
T	C	0.23	-0.2888124	0.06330304	7.48E-06
CA	C	0.24	-0.2893929	0.06218192	4.99E-06
A	T	0.23	-0.2888124	0.06330304	7.48E-06
A	G	0.23	-0.2888124	0.06330304	7.48E-06
T	C	0.23	-0.2876791	0.06384737	9.59E-06
T	A	0.23	-0.2827248	0.06268854	9.41E-06
A	AACACAC	0.03	-0.697764	0.15501	9.77E-06
A	G	0.12	0.3939026	0.08739765	9.54E-06
A	T	0.1	0.4351658	0.09520591	7.21E-06
A	G	0.12	0.4096273	0.08791387	4.87E-06
G	A	0.01	-1.329061	0.2606405	6.37E-07
G	A	0.08	0.485335	0.09927721	1.72E-06
C	T	0.29	-0.2809039	0.05972057	3.99E-06
A	AT	0.02	1.110926	0.2122933	3.35E-07
T	G	0.36	-0.2602925	0.057484	8.70E-06
G	GCA	0.02	0.8737967	0.1903619	6.47E-06
G	A	0.02	0.9763561	0.2058336	3.25E-06
C	G	0.02	0.9763561	0.2058336	3.25E-06
T	C	0.02	0.9837105	0.2145187	6.60E-06
C	T	0.05	0.5264159	0.1119133	3.89E-06
G	A	0.36	0.2529862	0.05606653	9.12E-06
T	C	0.32	0.2561554	0.0569078	9.57E-06
A	C	0.05	0.5067698	0.112835	1.00E-05
G	GTT	0.05	-0.5113166	0.1112458	6.29E-06
A	T	0.02	0.9434049	0.2057021	6.58E-06
A	G	0.02	0.9434049	0.2057021	6.58E-06
A	G	0.02	0.9888246	0.2096721	3.68E-06
T	A	0.02	0.9888246	0.2096721	3.68E-06
G	T	0.02	0.9888246	0.2096721	3.68E-06
T	G	0.02	0.9265558	0.2056405	9.39E-06
C	T	0.04	-0.6459319	0.1410215	6.75E-06
C	CT	0.17	0.3262713	0.07248741	9.58E-06
T	C	0.17	0.341147	0.07396156	5.86E-06
A	C	0.17	0.341147	0.07396156	5.86E-06
A	G	0.17	0.3366411	0.07352641	6.81E-06
A	C	0.2	0.3255492	0.06921309	3.89E-06
T	C	0.17	0.3386327	0.07301248	5.23E-06
T	C	0.07	-0.4792969	0.1013019	3.43E-06

A	AC	0.01	1.038961	0.2253316	5.90E-06
C	T	0.02	-0.8887676	0.1908774	4.82E-06
T	C	0.08	0.4665835	0.09688712	2.33E-06
GAAGGAAGGAAGG/	A	0.02	0.7991639	0.1774959	9.52E-06
ACAGAAGCCTTTGTT(	G	0.48	-0.2676585	0.05423243	1.34E-06
ATTTAT	A	0.15	0.34192	0.07357383	5.01E-06
G	A	0.47	0.2376073	0.05191233	6.85E-06
A	G	0.47	0.2349181	0.05175302	8.10E-06
A	G	0.47	0.2354283	0.05164533	7.44E-06
G	A	0.47	0.2371466	0.05181913	6.87E-06
G	C	0.47	0.237039	0.0518858	7.12E-06
G	A	0.47	0.237039	0.0518858	7.12E-06
G	A	0.47	0.2369226	0.05178027	6.90E-06
G	A	0.47	0.237039	0.0518858	7.12E-06
C	A	0.47	0.2349181	0.05175302	8.10E-06
A	G	0.47	0.2349181	0.05175302	8.10E-06
C	A	0.47	0.237039	0.0518858	7.12E-06
T	C	0.47	0.2349181	0.05175302	8.10E-06
G	A	0.47	0.2349181	0.05175302	8.10E-06
G	C	0.43	0.2449933	0.05373794	7.42E-06
C	T	0.46	0.2352305	0.05158507	7.39E-06
C	T	0.44	0.2446289	0.05234731	4.46E-06
A	C	0.44	0.2447587	0.05304013	5.80E-06
G	GTTCTT	0.11	0.4143277	0.08836559	4.16E-06
T	C	0.02	-0.7651913	0.1695131	9.05E-06
C	T	0.05	0.5456609	0.1175364	5.12E-06
C	CTAAACAAATAAA	0.01	1.078455	0.2314268	4.73E-06
G	A	0.05	0.5179639	0.1141148	8.11E-06
A	C	0.04	-0.6648886	0.1450174	6.62E-06
C	T	0.03	-0.762331	0.1695164	9.75E-06
A	C	0.03	-0.762331	0.1695164	9.75E-06
A	G	0.35	-0.247634	0.05423554	7.20E-06
C	G	0.34	-0.2505553	0.05443643	6.12E-06
G	TCCATTCCATTCCATT(	0.03	-0.9033958	0.1677091	1.50E-07
A	G	0.47	0.2310395	0.05116574	8.99E-06
C	A	0.47	0.2310395	0.05116574	8.99E-06
G	A	0.02	-0.8832915	0.1916723	5.97E-06
A	G	0.09	0.4064137	0.09028937	9.57E-06
G	T	0.09	0.4064137	0.09028937	9.57E-06
C	G	0.09	0.4064137	0.09028937	9.57E-06
A	G	0.09	0.4309959	0.0911193	3.45E-06
T	C	0.1	0.4270648	0.08907262	2.57E-06
A	G	0.1	0.4270648	0.08907262	2.57E-06
C	T	0.1	0.4145481	0.08888415	4.65E-06
C	T	0.1	0.4252571	0.08905376	2.81E-06
A	AGTGTGTGT	0.02	-0.9118707	0.2004775	7.78E-06
T	G	0.03	-0.7175362	0.1591602	9.26E-06
A	G	0.01	-1.232963	0.258658	2.91E-06
CAGAGACT	C	0.01	-1.142809	0.2532865	9.12E-06
T	C	0.04	-0.6509213	0.1437551	8.50E-06

A	T	0.07	-0.4731228	0.1004886	3.80E-06
TC	T	0.02	-0.8833873	0.1927838	6.69E-06
A	G	0.02	-0.8833873	0.1927838	6.69E-06
C	A	0.09	-0.4134899	0.09166643	9.16E-06
A	G	0.01	-1.269537	0.268462	3.46E-06
G	A	0.01	-1.269537	0.268462	3.46E-06
A	C	0.33	-0.2708451	0.05466356	1.22E-06
A	G	0.34	-0.2437243	0.05400358	9.07E-06
A	C	0.33	-0.2482267	0.05458893	7.81E-06
A	G	0.26	-0.2739605	0.0605332	8.58E-06
T	C	0.34	-0.2437449	0.05408875	9.34E-06
C	CTTTTG	0.42	-0.2638799	0.05360327	1.42E-06
A	C	0.19	-0.3090173	0.06709942	6.03E-06
A	C	0.21	-0.3140123	0.06435902	1.74E-06
G	T	0.05	-0.5340451	0.1186391	9.55E-06
G	A	0.01	-1.16831	0.2576634	8.27E-06
G	A	0.18	0.2932983	0.06446199	7.71E-06
G	A	0.02	-0.7874585	0.173348	7.97E-06
CAGG	C	0.41	-0.2641509	0.05266777	9.15E-07
G	A	0.2	0.2855546	0.06351627	9.79E-06
C	T	0.06	0.5244822	0.1139465	6.10E-06
C	T	0.06	0.5438677	0.1155194	3.81E-06
G	A	0.06	0.5438677	0.1155194	3.81E-06
G	A	0.06	0.5438677	0.1155194	3.81E-06
G	A	0.06	0.5438677	0.1155194	3.81E-06
GT	G	0.06	0.5438677	0.1155194	3.81E-06
C	A	0.06	0.5438677	0.1155194	3.81E-06
T	A	0.06	0.5438677	0.1155194	3.81E-06
T	C	0.03	-0.7261878	0.1509263	2.37E-06
G	A	0.02	-0.9948024	0.2101118	3.37E-06
G	A	0.02	-0.9948024	0.2101118	3.37E-06
G	T	0.02	-0.9948024	0.2101118	3.37E-06
G	A	0.02	-0.9948024	0.2101118	3.37E-06
C	G	0.02	-0.9948024	0.2101118	3.37E-06
C	G	0.02	-0.9948024	0.2101118	3.37E-06
C	T	0.02	-0.9948024	0.2101118	3.37E-06
C	T	0.37	0.2492185	0.05478766	7.75E-06
T	G	0.2	0.2963734	0.06393143	5.27E-06
G	A	0.25	0.2760264	0.05875978	3.99E-06
G	A	0.46	-0.2473557	0.05273074	4.11E-06
A	G	0.05	0.5604425	0.1127014	1.12E-06
A	G	0.26	0.2842464	0.06238399	7.50E-06
C	CGAG	0.26	0.2853944	0.06246574	7.10E-06
T	C	0.27	0.2857261	0.06206197	6.07E-06
T	C	0.27	0.2877769	0.06220075	5.49E-06
T	C	0.27	0.2863398	0.06213255	5.95E-06
G	A	0.27	0.2934403	0.06240476	3.91E-06
G	A	0.27	0.2914982	0.06218013	4.17E-06
C	CA	0.21	0.308206	0.06779507	7.84E-06
C	A	0.27	0.2875156	0.06217768	5.55E-06

G	A	0.27	0.285324	0.06211729	6.37E-06
A	T	0.27	0.2916892	0.06236758	4.38E-06
T	A	0.27	0.2936456	0.06238485	3.82E-06
C	T	0.27	0.2863398	0.06213255	5.95E-06
G	A	0.27	0.2863398	0.06213255	5.95E-06
A	T	0.27	0.2863398	0.06213255	5.95E-06
T	C	0.27	0.2877769	0.06220075	5.49E-06
C	A	0.23	0.3050521	0.06355527	2.50E-06
G	A	0.24	0.2861399	0.06330188	8.79E-06
T	C	0.27	0.2863398	0.06213255	5.95E-06
GA	G	0.24	0.2932803	0.06389616	6.46E-06
C	T	0.27	0.2892345	0.06218156	4.91E-06
A	C	0.27	0.2936456	0.06238485	3.82E-06
T	C	0.27	0.2863398	0.06213255	5.95E-06
G	A	0.27	0.2936456	0.06238485	3.82E-06
A	ATAAG	0.26	0.2936492	0.06285597	4.48E-06
T	G	0.22	0.3355997	0.06441834	3.59E-07
G	A	0.24	0.2895469	0.06236292	5.10E-06
T	C	0.25	0.2850262	0.06331976	9.55E-06
G	A	0.25	0.2856938	0.06336702	9.25E-06
T	C	0.27	0.2826349	0.06213405	7.75E-06
T	C	0.27	0.2894356	0.06219134	4.86E-06
C	T	0.27	0.2917645	0.06239661	4.40E-06
A	AAC	0.27	0.3102884	0.06234624	1.10E-06
G	A	0.5	-0.229866	0.05094269	9.10E-06
G	A	0.39	-0.2441387	0.05212718	4.25E-06
A	C	0.02	0.4623637	0.08446378	9.64E-08
C	CTGTGTGTG	0.01	0.463775	0.09562988	1.99E-06
G	A	0.02	0.3508124	0.06992962	9.09E-07
G	A	0.21	0.1388898	0.02638971	2.76E-07
G	A	0.04	0.267298	0.05698739	4.12E-06
A	G	0.22	-0.11614	0.02509864	5.47E-06
A	G	0.22	-0.11614	0.02509864	5.47E-06
A	G	0.03	0.2896029	0.060439	2.60E-06
T	TCTTG	0.05	0.2232627	0.04839233	5.81E-06
C	T	0.01	0.5160817	0.1066847	2.10E-06
G	C	0.2	0.1231251	0.02705728	7.69E-06
T	G	0.2	0.1226153	0.02716423	9.04E-06
GCA	G	0.05	0.2275092	0.04992833	7.48E-06
TAC	T	0.01	0.4197679	0.09080295	5.58E-06
T	G	0.04	0.2639317	0.05703786	5.47E-06
G	A	0.01	0.4527671	0.1007501	9.86E-06
A	G	0.01	0.484337	0.1042213	5.00E-06
C	A	0.01	0.484337	0.1042213	5.00E-06
C	T	0.02	0.350241	0.07659401	6.97E-06
A	ATG	0.02	0.3699019	0.07774911	3.04E-06
T	C	0.02	0.350241	0.07659401	6.97E-06
G	A	0.02	0.350241	0.07659401	6.97E-06
C	T	0.02	0.350241	0.07659401	6.97E-06
A	G	0.02	0.3671805	0.0789628	4.94E-06

C	CAT	0.01	0.4124994	0.09094324	8.21E-06
GTT	G	0.01	0.5080329	0.09749768	3.57E-07
T	A	0.03	0.3216123	0.06829886	3.79E-06
G	GT	0.02	0.3387157	0.07099108	2.85E-06
A	C	0.04	0.2471367	0.05342715	5.51E-06
G	A	0.03	0.2924887	0.05997588	1.75E-06
C	T	0.01	0.4703969	0.1039489	8.59E-06
C	T	0.03	0.2836777	0.06305036	9.63E-06
C	CAA	0.07	0.1714251	0.03738297	6.58E-06
A	G	0.02	0.3612837	0.07648658	3.55E-06
T	A	0.02	0.3404103	0.0752836	8.73E-06
G	T	0.01	0.5372928	0.1066506	8.21E-07
A	ATG	0.08	0.1813086	0.04014319	8.93E-06
C	T	0.01	0.4260949	0.09087744	4.15E-06
G	A	0.02	0.3981702	0.08181299	1.84E-06
A	T	0.03	0.2794391	0.0610341	6.80E-06
C	T	0.01	0.4506576	0.0978599	6.04E-06
T	C	0.05	0.2352169	0.05184537	8.17E-06
G	A	0.04	0.2848217	0.05618893	7.08E-07
C	T	0.04	0.265392	0.0557164	2.96E-06
T	TTTTA	0.01	0.4442631	0.09802577	8.34E-06
A	C	0.05	0.2302336	0.04998631	6.01E-06
G	T	0.05	0.2302336	0.04998631	6.01E-06
C	G	0.05	0.2302336	0.04998631	6.01E-06
CAT	C	0.05	0.234691	0.05136994	7.10E-06
C	T	0.05	0.2302336	0.04998631	6.01E-06
C	A	0.02	0.3703322	0.0789773	4.14E-06
G	A	0.01	0.4507018	0.09328641	2.16E-06
A	C	0.01	0.5306749	0.1066074	1.09E-06
C	T	0.23	0.1118517	0.02472528	8.65E-06
A	AAAAAAAC	0.04	0.2491803	0.05495053	8.25E-06
G	A	0.01	0.4801623	0.1044172	6.22E-06
C	A	0.02	0.338536	0.07338253	5.82E-06
C	G	0.05	0.235846	0.0507352	4.97E-06
A	T	0.05	0.2497565	0.05130648	1.83E-06
G	T	0.08	0.2054838	0.03944481	3.59E-07
C	CTA	0.04	0.2565274	0.05663214	8.43E-06
A	G	0.04	0.2565274	0.05663214	8.43E-06
A	G	0.04	0.2565274	0.05663214	8.43E-06
T	A	0.04	0.2565274	0.05663214	8.43E-06
C	T	0.04	0.2565274	0.05663214	8.43E-06
ATATG	A	0.04	0.2642211	0.05803261	7.61E-06
G	A	0.04	0.2565274	0.05663214	8.43E-06
G	A	0.04	0.2565274	0.05663214	8.43E-06
G	A	0.04	0.2565274	0.05663214	8.43E-06
C	T	0.04	0.2565274	0.05663214	8.43E-06
G	A	0.04	0.2565274	0.05663214	8.43E-06
A	G	0.04	0.2565274	0.05663214	8.43E-06
T	C	0.04	0.2594065	0.05572409	4.83E-06
G	A	0.02	0.3953989	0.0869359	7.77E-06

C	A	0.09	0.1774825	0.03815034	4.89E-06
C	T	0.09	0.1774825	0.03815034	4.89E-06
T	TA	0.38	0.1041851	0.02291979	7.86E-06
G	C	0.38	-0.0998152	0.02164837	5.89E-06
C	T	0.37	-0.1051729	0.02157504	1.77E-06
G	C	0.38	-0.0994998	0.02157268	5.85E-06
A	C	0.38	-0.1001534	0.02161167	5.30E-06
A	G	0.37	-0.1025223	0.02161169	3.23E-06
G	A	0.37	-0.102851	0.02168261	3.24E-06
G	A	0.37	-0.1031668	0.02163878	2.90E-06
A	G	0.37	-0.1040234	0.02167281	2.50E-06
G	A	0.37	-0.1033946	0.02160563	2.67E-06
C	T	0.37	-0.1048556	0.02172378	2.21E-06
C	T	0.37	-0.100092	0.02173118	6.02E-06
T	C	0.37	-0.1018979	0.02175952	4.26E-06
A	G	0.37	-0.1011103	0.02171563	4.81E-06
C	T	0.37	-0.1030289	0.02174945	3.33E-06
G	A	0.37	-0.1028525	0.02179645	3.62E-06
C	CCTGT	0.37	-0.0986228	0.02180664	8.70E-06
A	G	0.37	-0.1046851	0.02176222	2.38E-06
A	G	0.37	-0.1001194	0.02171883	5.91E-06
C	T	0.36	-0.1026506	0.02184599	3.96E-06
G	A	0.37	-0.1009272	0.02178518	5.33E-06
G	A	0.35	-0.1031955	0.02210879	4.56E-06
G	A	0.01	0.4767027	0.09503352	9.11E-07
G	A	0.01	0.4767027	0.09503352	9.11E-07
C	T	0.01	0.4972781	0.1004851	1.25E-06
T	G	0.01	0.4767027	0.09503352	9.11E-07
C	T	0.01	0.4972781	0.1004851	1.25E-06
T	C	0.01	0.4972781	0.1004851	1.25E-06
A	G	0.01	0.4972781	0.1004851	1.25E-06
G	A	0.01	0.4972781	0.1004851	1.25E-06
T	A	0.01	0.4972781	0.1004851	1.25E-06
C	T	0.01	0.5183819	0.1076908	2.35E-06
C	T	0.02	0.3931631	0.08708157	9.00E-06
CT	C	0.09	0.1616408	0.03548156	7.52E-06
C	G	0.01	0.5298154	0.106933	1.22E-06
A	C	0.01	0.5298154	0.106933	1.22E-06
T	G	0.01	0.5298154	0.106933	1.22E-06
A	G	0.02	0.3858491	0.08543997	8.95E-06
A	G	0.02	0.3858491	0.08543997	8.95E-06
A	G	0.02	0.3858491	0.08543997	8.95E-06
T	A	0.02	0.3858491	0.08543997	8.95E-06
A	G	0.01	0.45941	0.1021224	9.66E-06
C	CT	0.07	-0.2163173	0.04779343	8.56E-06
A	AAAAT	0.02	0.3875279	0.08598933	9.32E-06
G	A	0.04	0.265494	0.05755472	5.83E-06
T	A	0.01	0.5351229	0.1170166	6.96E-06
G	A	0.01	0.5351229	0.1170166	6.96E-06
T	A	0.03	0.3062909	0.06360664	2.33E-06

C	T	0.02	0.4754745	0.09798119	1.96E-06
TTTTTC	T	0.15	0.1479887	0.03180921	4.89E-06
G	GCACA	0.01	0.5350217	0.1158153	5.66E-06
G	A	0.03	0.3798178	0.07354491	4.47E-07
G	A	0.13	0.1588625	0.03533608	9.78E-06
T	C	0.06	0.2350903	0.04875539	2.26E-06
C	G	0.01	0.486684	0.1049388	5.22E-06
A	T	0.01	0.459151	0.1002734	6.78E-06
G	T	0.01	0.459151	0.1002734	6.78E-06
A	G	0.06	0.2725839	0.05158641	2.49E-07
A	C	0.02	0.3484457	0.07705773	8.72E-06
G	A	0.03	0.3805676	0.0755934	8.35E-07
A	G	0.2	-0.1360655	0.03008495	8.69E-06
C	T	0.01	0.5342378	0.1167812	6.91E-06
C	A	0.01	0.5377969	0.1129585	2.99E-06
A	T	0.02	0.3566964	0.07697654	5.31E-06
T	A	0.02	0.4160744	0.09106524	7.09E-06
G	A	0.03	0.3775978	0.07484461	7.94E-07
C	T	0.01	0.4740965	0.1018384	4.82E-06
C	T	0.42	0.1077237	0.02386879	9.06E-06
T	C	0.01	0.5077229	0.1070665	3.26E-06
T	C	0.02	0.4109751	0.08840524	4.97E-06
G	C	0.02	0.4398789	0.08955755	1.49E-06
A	G	0.02	0.4109751	0.08840524	4.97E-06
C	CGTGT	0.06	0.281193	0.05168955	1.14E-07
G	A	0.15	0.1540283	0.03315153	5.02E-06
T	C	0.15	0.1616977	0.03302438	1.60E-06
C	T	0.12	0.1655018	0.03617046	6.88E-06
A	T	0.23	0.124404	0.02731384	7.55E-06
C	G	0.22	0.1288733	0.02740858	3.91E-06
C	CAAAA	0.21	0.1277567	0.02837631	9.51E-06
C	T	0.23	0.1323729	0.02726358	1.94E-06
C	A	0.15	-0.1510644	0.03278016	5.95E-06
G	T	0.15	-0.1613002	0.03312518	1.81E-06
CTTATT	C	0.15	-0.1523607	0.0331685	6.36E-06
T	C	0.15	-0.1510386	0.03261482	5.38E-06
A	G	0.16	-0.1501015	0.03219627	4.68E-06
A	C	0.16	-0.1501015	0.03219627	4.68E-06
T	C	0.16	-0.1501015	0.03219627	4.68E-06
T	TTTTA	0.14	-0.1588141	0.03526586	9.46E-06
T	G	0.16	-0.149718	0.03198714	4.31E-06
G	T	0.16	-0.1483347	0.0320423	5.42E-06
A	C	0.16	-0.1500772	0.03217576	4.63E-06
T	A	0.16	-0.1507254	0.03172826	3.14E-06
A	G	0.16	-0.1494905	0.03178426	3.89E-06
A	G	0.15	-0.1590047	0.03199449	1.13E-06
T	A	0.38	0.1171354	0.02564219	7.12E-06
G	A	0.13	0.1575532	0.03508183	9.99E-06
T	G	0.1	0.1749271	0.03785968	5.64E-06
A	C	0.34	0.1109004	0.0244093	7.94E-06

T	C	0.34	0.1182006	0.02450068	2.23E-06
T	C	0.38	0.1170074	0.02405818	1.86E-06
C	T	0.32	0.1109319	0.02468909	9.89E-06
T	C	0.01	0.4673999	0.1039462	9.75E-06
A	G	0.06	0.237142	0.05258924	9.22E-06
A	AG	0.05	0.2781453	0.05672627	1.55E-06
A	C	0.05	0.2676735	0.0571181	4.19E-06
G	C	0.01	0.5398486	0.113346	2.96E-06
T	TA	0.07	0.210906	0.04414852	2.78E-06
C	A	0.13	0.1705566	0.0355928	2.59E-06
C	G	0.02	0.4494485	0.09387286	2.64E-06
G	A	0.32	0.1226585	0.02565781	2.73E-06
T	G	0.32	0.1219963	0.02556435	2.84E-06
G	C	0.21	-0.1282325	0.02812863	7.41E-06
C	A	0.47	-0.1047438	0.02323924	9.30E-06
T	C	0.49	-0.1057903	0.02353278	9.79E-06
C	CTTTCTT	0.03	0.3423694	0.07385528	5.27E-06
A	G	0.34	0.1111294	0.02428726	6.88E-06
A	G	0.02	0.3624202	0.07892502	6.40E-06
TCTCA	T	0.01	0.4686243	0.1033472	8.25E-06
T	A	0.03	0.3000093	0.06446088	4.85E-06
G	A	0.03	0.3006416	0.06668894	9.27E-06
AAAT	A	0.01	0.5320874	0.116482	7.12E-06
A	C	0.15	-0.3268786	0.07265059	9.68E-06
G	A	0.05	0.5030338	0.1107069	7.96E-06
G	T	0.28	-0.2689335	0.05908015	7.68E-06
G	T	0.03	0.7267939	0.1541245	3.70E-06
G	A	0.02	1.020801	0.2090604	1.72E-06
G	GCAAA	0.04	0.6423439	0.1424132	9.22E-06
A	AT	0.01	1.138988	0.2493593	7.17E-06
A	G	0.03	-0.7544406	0.1623262	5.02E-06
C	G	0.01	-0.9814993	0.2131835	6.10E-06
T	C	0.03	-0.7740661	0.1659172	4.64E-06
AGCC	A	0.02	0.8936232	0.1950527	6.74E-06
T	C	0.01	-1.043656	0.2178914	2.64E-06
CTCTTCTTTCTTTCTT	C	0.01	-1.054263	0.2292072	6.22E-06
T	C	0.31	-0.275995	0.05745316	2.47E-06
T	C	0.31	-0.2599745	0.0572503	8.06E-06
C	G	0.32	-0.2626372	0.0572811	6.64E-06
C	T	0.32	-0.2626372	0.0572811	6.64E-06
T	G	0.01	-1.179587	0.2587227	7.44E-06
A	G	0.3	0.2567038	0.05681727	8.92E-06
C	G	0.05	-0.5590571	0.1189279	3.95E-06
C	T	0.05	-0.5728167	0.1241968	5.88E-06
T	C	0.05	-0.5392238	0.1179878	7.09E-06
AT	A	0.05	-0.5396354	0.119439	8.92E-06
G	A	0.25	0.2730773	0.06065934	9.57E-06
A	G	0.25	0.279201	0.06086994	6.58E-06
G	C	0.25	0.279201	0.06086994	6.58E-06
TTG	T	0.1	-0.3958555	0.08767176	9.03E-06

GAGAA	G	0.04	-0.6229266	0.1353133	6.11E-06
CA	C	0.04	-0.6229266	0.1353133	6.11E-06
T	C	0.01	-1.012029	0.2173012	4.81E-06
T	C	0.11	-0.3680902	0.0817472	9.53E-06
A	T	0.48	0.2293058	0.04962464	5.66E-06
TAC	T	0.05	0.5767915	0.1188215	1.96E-06
G	A	0.05	0.5659136	0.125483	9.24E-06
A	G	0.02	0.9432639	0.1839652	5.39E-07
A	T	0.04	-0.6175485	0.1336747	5.69E-06
A	G	0.04	-0.6175485	0.1336747	5.69E-06
C	T	0.1	-0.3824695	0.08508144	9.85E-06
T	C	0.45	0.2663326	0.05290327	8.42E-07
A	G	0.16	-0.3287626	0.07049269	4.67E-06
A	G	0.16	-0.346768	0.06989069	1.19E-06
A	AATT	0.01	-1.022733	0.2176999	4.01E-06
G	A	0.47	0.2428715	0.05162911	3.89E-06
A	G	0.36	-0.2253054	0.04959177	7.98E-06
A	T	0.08	-0.4567273	0.100853	8.51E-06
C	CTGTG	0.06	0.534228	0.1159346	5.99E-06
G	GAA	0.01	-1.029141	0.2175444	3.45E-06
A	G	0.26	0.2653206	0.05836291	7.88E-06
G	A	0.02	-0.9353348	0.2055605	7.74E-06
C	G	0.16	-0.3243599	0.07115269	7.46E-06
G	A	0.26	0.2619653	0.05758717	7.78E-06
C	T	0.26	0.2614484	0.05725884	7.22E-06
T	G	0.5	0.2413659	0.05057684	2.86E-06
GA	G	0.01	-1.133638	0.2355008	2.36E-06
G	GT	0.1	0.3831849	0.0824196	4.99E-06
T	G	0.38	0.2481245	0.05188287	2.73E-06
G	C	0.49	0.2287993	0.04906457	4.68E-06
C	T	0.15	0.3383861	0.0733636	5.88E-06
G	A	0.15	0.3383861	0.0733636	5.88E-06
C	T	0.15	0.3454266	0.07362842	4.12E-06
A	G	0.15	0.3314667	0.07374254	9.87E-06
T	G	0.12	-0.1915234	0.04182083	6.76E-06
G	A	0.05	-0.2659619	0.05816651	6.98E-06
G	A	0.04	-0.2911942	0.06296972	5.54E-06
G	A	0.04	-0.2911942	0.06296972	5.54E-06
A	ATG	0.16	-0.1751298	0.03755258	4.65E-06
C	T	0.3	-0.1176407	0.02607793	9.14E-06
CGTGT	C	0.04	-0.2989496	0.06651351	9.83E-06
G	C	0.27	-0.1160115	0.02563742	8.60E-06
T	G	0.41	-0.1131048	0.02502632	8.82E-06
A	T	0.01	-0.4592178	0.1022205	9.92E-06
A	G	0.06	-0.2489613	0.05208567	2.74E-06
G	C	0.06	-0.2650506	0.052448	7.62E-07
C	T	0.05	-0.2922575	0.05809033	8.48E-07
A	G	0.06	-0.2650506	0.052448	7.62E-07
TCA	T	0.18	-0.1606847	0.03568128	9.46E-06
C	T	0.02	-0.4266212	0.08907972	2.63E-06

C	T	0.02	0.3767796	0.08093766	4.83E-06
GA	G	0.01	-0.5062665	0.1091963	5.25E-06
ATTCT	A	0.02	-0.4724207	0.1043113	8.46E-06
C	A	0.38	0.1215518	0.02686177	8.60E-06
C	T	0.38	0.1225503	0.0268033	6.99E-06
G	GTAC	0.39	0.1236582	0.02672794	5.49E-06
T	C	0.17	-0.1519881	0.03321522	6.87E-06
A	C	0.15	-0.1566453	0.03443212	7.73E-06
A	T	0.16	-0.1564054	0.03383053	5.57E-06
C	T	0.15	-0.1549685	0.03443948	9.61E-06
A	G	0.2	-0.1507601	0.03160492	2.87E-06
T	C	0.08	-0.2284417	0.04714877	2.03E-06
G	T	0.1	-0.1926928	0.04083734	3.63E-06
C	T	0.1	-0.1934055	0.0418021	5.48E-06
T	C	0.11	-0.1877003	0.03945237	3.03E-06
A	G	0.12	-0.1872186	0.03812615	1.50E-06
A	C	0.11	-0.1963621	0.03957191	1.18E-06
A	G	0.13	-0.173612	0.03675591	3.55E-06
C	T	0.06	-0.2499449	0.05513406	8.29E-06
GGATA	G	0.43	0.1113314	0.02443415	7.49E-06
G	GT	0.12	0.1799206	0.03884273	5.35E-06
T	TTTGTG	0.22	-0.1435773	0.03195863	9.92E-06
G	C	0.21	-0.1498756	0.03138321	2.80E-06
C	T	0.22	-0.1407537	0.03073127	6.75E-06
G	T	0.22	-0.1392744	0.030697	8.16E-06
A	G	0.21	-0.1412738	0.03133422	9.25E-06
TATA	T	0.2	-0.1451443	0.03191412	7.78E-06
A	G	0.21	-0.1412738	0.03133422	9.25E-06
C	A	0.21	-0.1412738	0.03133422	9.25E-06
C	G	0.21	-0.1449223	0.03102185	4.48E-06
A	G	0.21	-0.1435177	0.03101679	5.47E-06
AG	A	0.21	-0.1523159	0.03112706	1.62E-06
A	AACACACAC	0.2	-0.1515661	0.03316917	7.07E-06
G	A	0.21	-0.1435177	0.03101679	5.47E-06
C	T	0.21	-0.1435177	0.03101679	5.47E-06
T	C	0.21	-0.1467016	0.0310251	3.47E-06
A	AT	0.37	-0.1214102	0.0261387	5.06E-06
T	A	0.22	-0.1415193	0.03099956	7.21E-06
G	A	0.22	-0.1454389	0.03083372	3.65E-06
G	C	0.22	-0.1444343	0.03082556	4.21E-06
T	A	0.22	-0.1418784	0.03056521	5.12E-06
C	T	0.22	-0.1473533	0.03067662	2.46E-06
T	C	0.22	-0.1400087	0.03030493	5.65E-06
A	G	0.22	-0.1418784	0.03056521	5.12E-06
C	G	0.22	-0.1444343	0.03082556	4.21E-06
T	G	0.22	-0.1444343	0.03082556	4.21E-06
G	A	0.22	-0.1396893	0.03071178	7.76E-06
C	T	0.22	-0.1403117	0.03044465	5.94E-06
C	T	0.22	-0.1471771	0.03066604	2.51E-06
AAGAG	A	0.22	-0.1484031	0.03081599	2.32E-06

G	T	0.22	-0.1377081	0.03044099	8.65E-06
C	T	0.22	-0.1430235	0.03054963	4.28E-06
C	A	0.22	-0.1444343	0.03082556	4.21E-06
A	T	0.22	-0.1360748	0.02993372	7.85E-06
C	T	0.22	-0.1444343	0.03082556	4.21E-06
GTTA	G	0.23	-0.1415693	0.02948849	2.49E-06
AAT	A	0.23	-0.1490467	0.02910101	5.50E-07
A	G	0.22	-0.1444343	0.03082556	4.21E-06
T	A	0.22	-0.1369603	0.03016977	8.07E-06
G	T	0.22	-0.1377804	0.030453	8.63E-06
G	C	0.23	-0.1389208	0.02978051	4.62E-06
G	C	0.22	-0.1471771	0.03066604	2.51E-06
C	A	0.22	-0.1444343	0.03082556	4.21E-06
A	G	0.22	-0.1396893	0.03071178	7.76E-06
C	T	0.22	-0.1471771	0.03066604	2.51E-06
T	C	0.22	-0.1471771	0.03066604	2.51E-06
A	G	0.22	-0.1424412	0.03055983	4.70E-06
T	C	0.22	-0.1444343	0.03082556	4.21E-06
A	C	0.22	-0.1474995	0.03066152	2.38E-06
A	C	0.22	-0.1457888	0.03068095	3.12E-06
T	C	0.22	-0.1444343	0.03082556	4.21E-06
C	T	0.22	-0.140464	0.03055617	6.26E-06
C	T	0.22	-0.1444343	0.03082556	4.21E-06
G	A	0.22	-0.1501942	0.03050403	1.41E-06
T	G	0.22	-0.1444343	0.03082556	4.21E-06
T	A	0.22	-0.1444343	0.03082556	4.21E-06
T	C	0.22	-0.151351	0.03049335	1.17E-06
T	G	0.22	-0.1433529	0.0304747	3.87E-06
GT	G	0.14	-0.1732093	0.03849508	9.62E-06
G	T	0.05	-0.2803078	0.05867093	2.77E-06
G	A	0.05	-0.264076	0.05801351	7.64E-06
GA	G	0.03	-0.3317327	0.07122726	4.78E-06
C	A	0.02	-0.4057237	0.08857743	6.74E-06
A	G	0.34	0.1188151	0.02636996	9.36E-06
A	T	0.34	0.1229418	0.02615727	3.94E-06
T	C	0.34	0.1206662	0.0262132	6.09E-06
TG	T	0.34	0.1178222	0.02594305	8.00E-06
A	T	0.4	0.1170157	0.02554984	6.75E-06
AACAC	A	0.17	0.1599971	0.03462015	5.61E-06
A	T	0.43	-0.1402216	0.02892286	2.00E-06
A	G	0.11	-0.3874752	0.08467198	6.89E-06
T	C	0.05	-0.5503514	0.1203295	6.97E-06
C	G	0.22	-0.3026327	0.06602756	6.67E-06
G	A	0.22	-0.3142494	0.06574527	2.76E-06
T	G	0.34	-0.2634817	0.05828305	8.80E-06
T	C	0.44	-0.2442026	0.05419075	9.37E-06
A	C	0.03	-0.7930308	0.174658	8.07E-06
TTA	T	0.2	0.3263766	0.07003185	4.73E-06
T	C	0.08	-0.4876726	0.09984802	1.70E-06
C	A	0.33	-0.2735298	0.05652436	2.10E-06

C	T	0.5	-0.2418325	0.05285528	6.92E-06
T	C	0.49	0.2495068	0.05255132	3.19E-06
T	C	0.13	-0.3886082	0.08157329	2.96E-06
A	G	0.42	-0.2442849	0.05362859	7.56E-06
C	A	0.41	-0.2428501	0.05378719	9.02E-06
C	T	0.39	-0.2498493	0.05475027	7.29E-06
T	C	0.42	-0.2451345	0.053714	7.28E-06
C	T	0.41	-0.2524985	0.05355645	3.71E-06
T	C	0.42	-0.2588962	0.05288	1.61E-06
C	T	0.41	-0.2550382	0.05349813	2.92E-06
T	C	0.41	-0.2473154	0.05354508	5.70E-06
G	A	0.41	-0.2491144	0.05358354	4.98E-06
C	T	0.41	-0.2520754	0.05356452	3.85E-06
C	A	0.41	-0.2537825	0.05358977	3.37E-06
T	A	0.39	-0.2518931	0.05444892	5.52E-06
C	T	0.41	-0.2553069	0.05336397	2.70E-06
T	C	0.39	-0.253986	0.05455693	4.84E-06
C	T	0.41	-0.2473503	0.0537021	6.04E-06
A	G	0.41	-0.2485859	0.0536468	5.33E-06
A	T	0.41	-0.2427634	0.05364614	8.63E-06
A	C	0.39	-0.2566931	0.05443034	3.68E-06
C	T	0.39	-0.253986	0.05455693	4.84E-06
G	T	0.39	-0.2578349	0.05443398	3.35E-06
A	G	0.39	-0.253986	0.05455693	4.84E-06
T	G	0.41	-0.2511742	0.05359237	4.20E-06
T	G	0.39	-0.2462971	0.05466555	9.41E-06
C	T	0.41	-0.24382	0.05378861	8.34E-06
A	G	0.39	-0.2461875	0.05474152	9.75E-06
A	G	0.45	-0.2323982	0.05139508	8.76E-06
G	A	0.42	-0.2439962	0.05385794	8.44E-06
T	C	0.42	-0.2479078	0.05375402	5.88E-06
A	G	0.42	-0.2428823	0.05374031	8.85E-06
A	G	0.41	-0.2520873	0.05407477	4.70E-06
G	A	0.41	-0.2439606	0.05407744	9.17E-06
A	G	0.48	-0.2422415	0.05207814	4.93E-06
G	A	0.48	-0.2389175	0.05163488	5.50E-06
C	A	0.48	-0.2319987	0.05159796	9.79E-06
C	T	0.48	-0.2369686	0.05194591	7.34E-06
C	A	0.48	-0.2363957	0.05202326	7.94E-06
T	TA	0.02	-0.9605338	0.2051441	4.29E-06
T	C	0.22	-0.2724559	0.05943738	6.66E-06
A	G	0.02	-0.8852814	0.1827502	2.05E-06
A	G	0.02	-0.9120203	0.1859677	1.55E-06
A	G	0.29	0.2977347	0.06159868	2.15E-06
G	A	0.3	0.2994593	0.06178104	2.02E-06
G	A	0.03	-0.8162653	0.1634566	1.02E-06
T	C	0.03	-0.7499898	0.1614321	5.05E-06
T	C	0.03	-0.8035862	0.1551537	4.19E-07
G	A	0.02	-0.9552244	0.2053813	4.94E-06
C	T	0.02	-0.9552244	0.2053813	4.94E-06

C	T	0.02	-0.8589474	0.1753021	1.58E-06
C	T	0.1	0.4105604	0.09020156	7.68E-06
C	G	0.11	0.398383	0.08713373	7.02E-06
A	C	0.08	0.4459182	0.09704235	6.34E-06
C	T	0.02	0.9591873	0.1823351	2.82E-07
G	A	0.02	0.9060678	0.1835084	1.33E-06
T	C	0.14	-0.3736311	0.08037782	5.00E-06
C	T	0.14	-0.3635909	0.08080114	9.64E-06
C	T	0.34	0.2703184	0.05995843	9.29E-06
T	C	0.04	0.5713098	0.126947	9.62E-06
A	T	0.41	-0.2563146	0.05587891	6.57E-06
C	T	0.45	0.250763	0.0533211	3.91E-06
A	C	0.45	0.2386525	0.05308003	9.80E-06
C	G	0.02	-0.9400274	0.1960691	2.58E-06
C	T	0.4	-0.2504423	0.05407014	5.38E-06
C	T	0.03	-0.7524423	0.1674419	9.90E-06
G	GT	0.02	-0.8412911	0.182473	5.92E-06
C	T	0.03	-0.7759074	0.1616637	2.52E-06
G	T	0.01	-1.119706	0.2425629	5.77E-06
A	G	0.02	-0.769549	0.169614	8.19E-06
A	T	0.02	-0.8593991	0.1829489	4.01E-06
A	G	0.02	-0.8199309	0.1801824	7.72E-06
C	T	0.44	-0.2447271	0.05324282	6.30E-06
G	A	0.46	-0.2433028	0.05290535	6.23E-06
C	T	0.46	-0.2417448	0.05290912	7.11E-06
A	G	0.03	-0.6810582	0.1468868	5.27E-06
C	G	0.03	-0.6810582	0.1468868	5.27E-06
T	C	0.41	0.2450767	0.05353555	6.84E-06
G	A	0.01	-1.170375	0.249336	4.07E-06
C	T	0.02	1.009769	0.2095369	2.30E-06
G	C	0.13	-0.3717499	0.07727118	2.39E-06
C	G	0.26	0.2633801	0.05857747	9.80E-06
C	A	0.26	0.2779476	0.05782047	2.43E-06
T	C	0.27	0.2702702	0.05717072	3.50E-06
A	C	0.26	0.266649	0.05752003	5.29E-06
G	A	0.26	0.2685055	0.05807061	5.58E-06
G	A	0.22	-0.3011744	0.06560563	6.46E-06
T	C	0.3	-0.2633931	0.05776278	7.41E-06
C	T	0.38	-0.2464429	0.05455838	8.94E-06
C	T	0.38	-0.2476041	0.05468414	8.53E-06
G	A	0.39	-0.2646618	0.05549345	2.89E-06
T	G	0.38	-0.2497239	0.05481764	7.55E-06
G	T	0.38	-0.2553045	0.05488098	4.92E-06
C	A	0.42	-0.2415119	0.0527665	6.87E-06
G	T	0.42	-0.2415119	0.0527665	6.87E-06
C	G	0.42	-0.2415119	0.0527665	6.87E-06
T	C	0.42	-0.243246	0.05251028	5.37E-06
C	T	0.42	-0.2409982	0.05254556	6.59E-06
GA	G	0.42	-0.2516103	0.05280805	2.95E-06
A	G	0.43	-0.2456249	0.05214138	3.77E-06

C	A	0.42	-0.2377906	0.05279767	9.48E-06
G	A	0.42	-0.2377906	0.05279767	9.48E-06
A	T	0.36	-0.2556082	0.05454095	4.21E-06
C	T	0.36	-0.2556082	0.05454095	4.21E-06
C	T	0.36	-0.2592136	0.05471252	3.34E-06
G	A	0.36	-0.2592063	0.05464746	3.26E-06
G	T	0.36	-0.2532125	0.05470306	5.45E-06
T	C	0.35	-0.254772	0.05495621	5.28E-06
T	C	0.36	-0.2605343	0.05461306	2.87E-06
T	C	0.37	-0.2491495	0.05425018	6.41E-06
A	G	0.35	-0.2477898	0.05516484	9.99E-06
G	A	0.41	-0.2641649	0.05342874	1.29E-06
C	T	0.41	-0.2627206	0.05352728	1.52E-06
G	A	0.02	-0.9471807	0.2009629	3.73E-06
C	T	0.02	-0.8520548	0.1875957	8.27E-06
A	C	0.02	-0.9004768	0.1904896	3.63E-06
C	T	0.28	0.2838056	0.06073266	4.63E-06
C	T	0.02	-0.873565	0.1788862	1.78E-06
T	C	0.01	-1.04364	0.2304981	8.80E-06
C	T	0.03	-0.6984309	0.152285	6.81E-06
T	C	0.08	-0.4519919	0.09890574	7.32E-06
G	T	0.08	-0.4550789	0.09912496	6.67E-06
A	AT	0.09	-0.4551584	0.09990131	7.78E-06
G	A	0.01	-1.218067	0.2667389	7.43E-06
G	A	0.01	-1.218067	0.2667389	7.43E-06
G	A	0.01	-1.153075	0.2438712	3.62E-06
GT	G	0.45	-0.2555341	0.0551722	5.57E-06
A	C	0.08	0.4540552	0.1001918	8.65E-06
G	GA	0.08	0.4588282	0.1005226	7.50E-06
T	G	0.08	0.4540552	0.1001918	8.65E-06
TTGTGTGTGTGTGTGT	G	0.08	0.4852718	0.1027242	3.69E-06
T	A	0.36	-0.2708619	0.05553317	1.83E-06
A	G	0.03	0.7331751	0.1622976	9.21E-06
A	C	0.06	-0.5265158	0.1106581	3.16E-06
G	C	0.02	-0.8849914	0.1822443	2.02E-06
G	GGTA	0.02	-0.9125106	0.1952708	4.63E-06
T	C	0.04	-0.6194193	0.13696	9.00E-06
G	A	0.21	0.2965544	0.06580957	9.67E-06
T	A	0.01	-1.190787	0.2518019	3.60E-06
C	T	0.02	-1.019225	0.2258072	9.36E-06
T	A	0.04	0.673931	0.1462603	6.27E-06
G	A	0.01	1.246939	0.2430482	5.69E-07
C	T	0.02	1.098202	0.2298059	2.92E-06
C	T	0.02	1.098202	0.2298059	2.92E-06
G	T	0.02	1.098202	0.2298059	2.92E-06
G	A	0.02	0.9845072	0.2181643	9.50E-06
C	T	0.01	1.14545	0.2527285	8.72E-06
T	C	0.01	-1.237436	0.2714765	7.79E-06
G	A	0.01	-1.237436	0.2714765	7.79E-06
T	C	0.01	-1.161825	0.2525335	6.47E-06

G	A	0.01	1.219254	0.2608496	4.67E-06
A	G	0.04	-0.6893464	0.1473008	4.55E-06
G	A	0.02	0.9178725	0.196834	4.90E-06
G	A	0.02	0.9178725	0.196834	4.90E-06
A	G	0.02	0.9178725	0.196834	4.90E-06
GT	G	0.12	-0.3824724	0.07992622	2.83E-06
TTC	T	0.01	1.222479	0.2329197	3.23E-07
C	A	0.39	0.2720617	0.05858764	5.35E-06
T	A	0.39	0.2707071	0.05865876	6.07E-06
A	T	0.42	0.262225	0.05795527	9.02E-06
C	T	0.39	0.2777105	0.05870652	3.63E-06
C	G	0.41	0.2687276	0.0580101	5.62E-06
C	T	0.42	0.264143	0.05807125	8.13E-06
C	G	0.4	0.2722379	0.05794229	4.19E-06
T	TG	0.41	0.2645794	0.05822163	8.28E-06
A	T	0.4	0.2770292	0.05821986	3.20E-06
A	T	0.4	0.2770292	0.05821986	3.20E-06
T	C	0.41	0.2782827	0.0574495	2.17E-06
G	A	0.42	0.2661821	0.05838752	7.77E-06
G	GCACACA	0.02	0.9194662	0.1950349	3.90E-06
G	C	0.02	1.040826	0.2291179	8.34E-06
C	T	0.02	1.017337	0.2250287	9.17E-06
T	C	0.02	1.017337	0.2250287	9.17E-06
G	A	0.02	1.017337	0.2250287	9.17E-06
G	T	0.01	1.193916	0.2460325	2.08E-06
C	T	0.03	0.8045216	0.1776207	8.83E-06
C	T	0.02	-0.9416639	0.1978414	3.18E-06
A	T	0.13	0.3867221	0.08518633	8.45E-06
T	C	0.13	0.3867221	0.08518633	8.45E-06
TTCC	T	0.29	-0.2845743	0.06222305	7.29E-06
T	C	0.23	0.304405	0.0672397	8.92E-06
TA	T	0.23	0.3075154	0.06711172	7.02E-06
T	G	0.5	-0.2655582	0.05719356	5.36E-06
A	G	0.15	0.3742086	0.08019677	4.84E-06
C	T	0.09	0.4919426	0.09796537	9.52E-07
C	T	0.01	1.134752	0.2510084	9.17E-06
C	T	0.01	1.134752	0.2510084	9.17E-06
A	AGTGTGT	0.14	-0.4016993	0.08459387	3.34E-06
G	C	0.11	0.4384258	0.09444641	5.38E-06
G	A	0.03	0.7536013	0.1669434	9.44E-06
T	TA	0.02	1.074647	0.2351578	7.40E-06
T	G	0.04	0.6487255	0.1346749	2.45E-06
T	C	0.01	1.230408	0.2564953	2.69E-06
G	A	0.01	1.130577	0.2478199	7.66E-06
C	T	0.01	1.130577	0.2478199	7.66E-06
C	T	0.01	1.130577	0.2478199	7.66E-06
T	C	0.04	0.7211691	0.1416343	6.84E-07
CAG	C	0.02	0.8686961	0.1885798	6.30E-06
C	CAGCCCCTGGA	0.23	0.2858542	0.06173399	5.67E-06
T	C	0.02	-0.9431725	0.1994534	3.47E-06

C	T	0.38	-0.2606768	0.05487401	3.14E-06
C	G	0.4	0.2701068	0.05466303	1.30E-06
G	A	0.4	0.272911	0.05476507	1.07E-06
TA	T	0.43	0.2562228	0.05266334	1.85E-06
C	T	0.47	0.2384254	0.05061692	3.77E-06
G	C	0.4	0.2682247	0.05486982	1.67E-06
G	A	0.4	0.2589998	0.05520062	4.10E-06
G	A	0.4	0.2616131	0.05484419	2.87E-06
A	T	0.4	0.2740474	0.0549453	1.05E-06
G	A	0.4	0.2740474	0.0549453	1.05E-06
CT	C	0.4	0.2644074	0.05495877	2.38E-06
C	A	0.38	0.2522344	0.05552035	7.96E-06
C	G	0.38	0.2565117	0.05621061	7.28E-06
C	T	0.38	0.2707855	0.05586914	2.02E-06
G	C	0.38	0.2542355	0.05609218	8.34E-06
T	C	0.38	0.2664038	0.05566381	2.67E-06
C	G	0.38	0.2577204	0.05582372	5.75E-06
G	A	0.38	0.2568077	0.05614386	6.94E-06
T	G	0.38	0.2540877	0.05627656	9.01E-06
A	G	0.38	0.2583459	0.0559847	5.80E-06
C	T	0.38	0.2540877	0.05627656	9.01E-06
C	CA	0.07	-0.4575725	0.1005412	7.69E-06
C	CT	0.04	-0.5873335	0.1290747	7.71E-06
C	T	0.25	0.2705675	0.05951067	7.84E-06
A	G	0.26	0.2639533	0.05848456	9.08E-06
T	G	0.34	-0.2484862	0.05524446	9.71E-06
C	T	0.32	-0.2602284	0.05588693	4.81E-06
C	G	0.32	-0.2540569	0.05581951	7.67E-06
G	A	0.1	-0.4273788	0.08739446	1.65E-06
T	C	0.1	-0.4273788	0.08739446	1.65E-06
T	C	0.1	-0.4273788	0.08739446	1.65E-06
CTT	C	0.03	-0.6282184	0.1380624	7.71E-06
T	C	0.02	-0.922109	0.2005636	6.26E-06
C	G	0.16	-0.3383189	0.07251579	4.62E-06
A	C	0.2	-0.2924188	0.06349441	6.04E-06
G	A	0.2	-0.2897841	0.06352896	7.34E-06
A	T	0.44	0.2469263	0.05446465	8.30E-06
T	C	0.44	0.2501486	0.05434119	6.10E-06
C	A	0.33	0.2534648	0.05627178	9.44E-06
G	C	0.36	0.2392736	0.05284898	8.53E-06
T	C	0.35	0.2691711	0.05383198	9.85E-07
G	A	0.46	0.2328383	0.04653852	9.72E-07
G	A	0.34	0.2539832	0.05557333	7.06E-06
C	T	0.24	0.3337517	0.06465328	4.53E-07
T	C	0.35	0.2536407	0.05446261	4.79E-06
G	GTT	0.21	-0.3020691	0.06124522	1.36E-06
G	A	0.02	-0.7791017	0.1733247	9.83E-06
T	C	0.01	-1.090862	0.2359209	5.56E-06
GTA	G	0.09	-0.4563697	0.09248294	1.34E-06
A	AC	0.01	-1.42867	0.2562329	5.77E-08

C	T	0.01	-1.103974	0.222685	1.20E-06
A	T	0.04	-0.6145226	0.1324386	5.18E-06
G	A	0.04	-0.6027562	0.1316432	6.80E-06
T	C	0.01	-1.103974	0.222685	1.20E-06
A	G	0.42	-0.2256768	0.04682079	2.29E-06
C	T	0.3	-0.2697729	0.05774616	4.49E-06
G	A	0.34	-0.2517912	0.05514081	7.18E-06
CCCATCCATCCAT	C	0.32	-0.2732478	0.05637667	2.02E-06
A	G	0.34	-0.2525183	0.05509069	6.65E-06
G	A	0.34	-0.2517912	0.05514081	7.18E-06
A	G	0.34	-0.2517912	0.05514081	7.18E-06
A	G	0.34	-0.252135	0.05475562	6.06E-06
C	G	0.34	-0.2501271	0.05489517	7.51E-06
G	A	0.34	-0.2564811	0.055291	5.21E-06
C	T	0.34	-0.2539357	0.05541451	6.69E-06
C	G	0.09	-0.4085356	0.08982795	7.79E-06
C	G	0.32	-0.2558571	0.05584265	6.71E-06
T	C	0.32	-0.264133	0.05578414	3.37E-06
A	G	0.33	-0.2581164	0.05562267	5.17E-06
A	G	0.33	-0.2660977	0.05571939	2.80E-06
A	G	0.33	-0.2690238	0.05566762	2.16E-06
G	A	0.03	-0.7116155	0.1563499	7.67E-06
G	A	0.03	-0.7050546	0.1528993	5.89E-06
T	C	0.03	-0.7493468	0.1561272	2.51E-06
A	C	0.03	-0.7405797	0.1559508	3.17E-06
A	G	0.03	-0.7615598	0.1526764	1.04E-06
C	T	0.03	-0.7615598	0.1526764	1.04E-06
A	C	0.46	-0.2440117	0.05062969	2.29E-06
A	C	0.48	0.2521401	0.05118457	1.40E-06
T	C	0.49	-0.2311156	0.05064122	7.27E-06
AT	A	0.49	0.243479	0.05116735	3.03E-06
C	T	0.49	0.224182	0.04959833	8.81E-06
C	T	0.48	0.2246741	0.0494143	7.83E-06
A	G	0.5	0.2504184	0.05114215	1.60E-06
T	C	0.5	0.24013	0.05144981	4.58E-06
C	T	0.14	-0.3579549	0.07430405	2.31E-06
C	T	0.14	-0.3484402	0.07446924	4.35E-06
C	T	0.14	-0.3627242	0.07466761	1.92E-06
T	C	0.14	-0.3476602	0.07349387	3.44E-06
CTGTG	C	0.07	-0.4890527	0.09985593	1.60E-06
C	T	0.14	-0.3417757	0.07387818	5.51E-06
C	A	0.14	-0.3370611	0.07336102	6.34E-06
G	A	0.14	-0.3305601	0.07356995	9.91E-06
A	G	0.02	-0.7677375	0.1668237	6.13E-06
G	A	0.01	-1.152241	0.2498722	5.88E-06
C	T	0.15	-0.3489986	0.06767142	4.64E-07
T	A	0.15	-0.3453707	0.06790908	6.55E-07
C	A	0.15	-0.3453707	0.06790908	6.55E-07
G	A	0.15	-0.3453707	0.06790908	6.55E-07
G	A	0.15	-0.3406473	0.06806528	9.64E-07

C	G	0.15	-0.3528243	0.06801827	4.02E-07
T	A	0.17	-0.3110521	0.06645744	4.32E-06
T	G	0.08	-0.5521062	0.09871043	5.28E-08
T	A	0.33	-0.2693672	0.05259587	5.52E-07
ATGTTT	A	0.34	-0.2534008	0.05263478	2.35E-06
T	C	0.36	-0.2375983	0.05242685	8.36E-06
G	T	0.35	-0.2358637	0.05228578	9.16E-06
T	A	0.34	-0.2587558	0.05235659	1.29E-06
G	T	0.33	-0.2494631	0.05263267	3.30E-06
G	T	0.33	-0.2589186	0.05248235	1.35E-06
C	T	0.37	-0.2556553	0.05159667	1.22E-06
T	C	0.34	-0.2566683	0.0521132	1.40E-06
G	A	0.33	-0.2610961	0.05273443	1.24E-06
G	A	0.34	-0.2515502	0.05198984	2.10E-06
G	C	0.33	-0.2507995	0.05197688	2.23E-06
A	G	0.33	-0.2521332	0.05295192	2.99E-06
T	G	0.36	-0.2413418	0.05070362	3.01E-06
A	C	0.35	-0.2461074	0.05195997	3.35E-06
C	G	0.43	-0.2347683	0.05162426	7.80E-06
G	A	0.43	-0.2369086	0.05147577	6.12E-06
G	AAAGAAAGAAAGAA/	0.07	-0.4452142	0.09872688	9.23E-06
T	C	0.04	-0.6205305	0.1356452	6.92E-06
CTGAT	C	0.01	-1.095219	0.2394898	6.97E-06
G	T	0.03	-0.6387506	0.1414207	8.94E-06
C	T	0.03	-0.6695751	0.1477752	8.39E-06
G	T	0.03	-0.6897974	0.1476544	4.49E-06
G	A	0.23	-0.2810042	0.06146725	7.02E-06
G	A	0.23	-0.286092	0.06117273	4.39E-06
G	A	0.09	-0.4595033	0.09541655	2.33E-06
G	GATGT	0.09	-0.4997902	0.09659332	4.28E-07
A	G	0.08	-0.4944223	0.09744249	6.93E-07
A	G	0.08	-0.4929853	0.09675131	6.26E-07
G	A	0.14	-0.3537065	0.07776588	7.78E-06
C	T	0.14	-0.3537065	0.07776588	7.78E-06
T	C	0.14	-0.3537065	0.07776588	7.78E-06
GA	G	0.12	-0.3671072	0.08077125	7.89E-06
C	T	0.14	-0.3585444	0.07689683	4.68E-06
T	A	0.14	-0.3536383	0.0768837	6.20E-06
T	C	0.01	-1.322045	0.2493691	2.29E-07
C	A	0.23	-0.2852709	0.06264533	7.60E-06
G	A	0.23	-0.3010723	0.06327694	3.04E-06
G	C	0.23	-0.2920086	0.06311431	5.49E-06
TG	T	0.21	-0.3082829	0.06588584	4.34E-06
A	C	0.23	-0.2848278	0.06283692	8.33E-06
A	G	0.23	-0.2924265	0.06309022	5.29E-06
G	A	0.23	-0.2990901	0.0630802	3.28E-06
A	G	0.02	-0.9062625	0.2001554	8.52E-06
G	C	0.01	-0.935136	0.2023428	5.62E-06
A	T	0.08	-0.4925971	0.09841048	9.61E-07
C	T	0.49	0.243973	0.05388721	8.53E-06

A	AATCATCATC	0.16	-0.3637972	0.07215298	8.08E-07
G	A	0.02	-0.8492757	0.187429	8.39E-06
G	A	0.04	-0.6725463	0.1408658	2.82E-06
A	C	0.04	-0.6725463	0.1408658	2.82E-06
G	A	0.02	-0.8669158	0.1826443	3.20E-06
C	T	0.02	-0.960284	0.1937213	1.21E-06
C	T	0.28	-0.2801577	0.05684588	1.38E-06
G	A	0.16	-0.3315195	0.06904656	2.49E-06
G	A	0.18	-0.3088426	0.06766087	7.24E-06
CCCAT	C	0.19	-0.3096679	0.06671543	5.14E-06
G	A	0.18	-0.3088426	0.06766087	7.24E-06
C	T	0.18	-0.3103923	0.06804112	7.33E-06
C	G	0.19	-0.3033916	0.06688761	8.22E-06
G	A	0.19	-0.3210907	0.06739715	2.95E-06
C	T	0.38	0.2536428	0.05363391	3.46E-06
CT	C	0.04	-0.5771839	0.1278591	9.04E-06
C	T	0.02	-0.8662406	0.1712626	7.49E-07
G	T	0.02	-0.8646213	0.1787298	2.11E-06
CAT	C	0.02	-0.8028832	0.1776973	8.88E-06
G	A	0.31	-0.2580467	0.05659668	7.41E-06
T	C	0.06	-0.5154201	0.1102101	4.39E-06
AAAAGAAAGAAAG	A	0.03	-0.7413183	0.1626358	7.45E-06
G	A	0.15	-0.3580782	0.07918155	8.73E-06
G	A	0.18	-0.3148287	0.06815901	5.69E-06
T	TACAC	0.04	-0.6679497	0.1359813	1.49E-06
G	C	0.04	0.740348	0.1380342	1.69E-07
A	T	0.16	-0.305254	0.06763217	9.07E-06
G	A	0.05	-0.5702813	0.1223143	4.68E-06
G	A	0.05	-0.5380442	0.1189837	8.73E-06
C	T	0.15	-0.3324587	0.07257066	6.73E-06
G	A	0.02	-0.8808299	0.1877941	4.13E-06
C	T	0.02	-0.7618494	0.1671253	7.44E-06
C	CA	0.26	-0.2676809	0.05705537	4.11E-06
C	T	0.02	-0.9190965	0.2019975	7.72E-06
C	T	0.02	-0.8744773	0.1834569	2.92E-06
CAT	C	0.01	-1.136192	0.2456881	5.55E-06
A	G	0.01	-0.9622524	0.2107308	7.19E-06
C	T	0.43	0.2355992	0.05236831	9.67E-06
C	T	0.48	0.2335108	0.0519293	9.76E-06
T	A	0.49	-0.2388549	0.05190615	6.14E-06
C	T	0.44	-0.2471335	0.05231457	3.55E-06
C	A	0.09	0.427358	0.09450774	8.74E-06
G	A	0.05	-0.5806526	0.1273921	7.45E-06
C	T	0.48	0.2406439	0.05046228	2.89E-06
T	A	0.48	0.2406439	0.05046228	2.89E-06
T	G	0.45	0.2486716	0.0513891	2.09E-06
G	GT	0.47	0.2281246	0.05055693	9.12E-06
C	G	0.45	0.2488582	0.05158678	2.24E-06
G	A	0.43	0.2610368	0.05139077	6.75E-07
G	T	0.48	0.240817	0.05059978	3.02E-06

A	C	0.45	0.2452493	0.05162154	3.14E-06
G	T	0.3	0.2568105	0.05565329	5.80E-06
T	G	0.3	0.2608146	0.05554268	4.03E-06
C	T	0.35	0.2503759	0.05354313	4.40E-06
T	C	0.35	0.2518536	0.05379495	4.29E-06
G	T	0.01	-1.165669	0.2507267	4.97E-06
GC	G	0.11	0.3666428	0.07993797	6.57E-06
T	C	0.11	0.3636113	0.08070543	9.39E-06
G	GAA	0.02	-0.8448476	0.1841321	6.52E-06
C	CTG	0.06	-0.5567282	0.1229261	8.72E-06
G	A	0.15	0.3475993	0.07485434	5.26E-06
C	A	0.21	0.3104154	0.06857265	8.80E-06
T	C	0.18	0.3202258	0.06932909	5.87E-06
A	G	0.17	0.3254197	0.07147444	7.85E-06
A	T	0.18	0.3476553	0.07067936	1.51E-06
T	TAAAAATA	0.17	0.3528339	0.07104668	1.21E-06
G	T	0.18	0.3459711	0.0706347	1.66E-06
T	G	0.18	0.3359055	0.07058171	3.13E-06
C	T	0.18	0.3359055	0.07058171	3.13E-06
G	C	0.18	0.3437035	0.07056596	1.88E-06
G	A	0.18	0.3359055	0.07058171	3.13E-06
C	T	0.18	0.3199068	0.0703891	8.14E-06
C	T	0.18	0.3359055	0.07058171	3.13E-06
G	T	0.18	0.3336355	0.07074917	3.81E-06
G	A	0.18	0.3359055	0.07058171	3.13E-06
G	A	0.2	0.3015345	0.0651131	5.57E-06
A	G	0.2	0.3004462	0.06508188	5.94E-06
T	C	0.2	0.3031347	0.06503174	4.86E-06
G	T	0.2	0.3031347	0.06503174	4.86E-06
A	AACACAC	0.26	-0.3289153	0.06706683	1.61E-06
A	G	0.44	-0.2448515	0.05437849	9.78E-06
T	C	0.48	-0.2513293	0.05445291	5.96E-06
G	A	0.01	-1.06203	0.2343131	8.59E-06
T	C	0.01	-1.064918	0.2340281	7.94E-06
A	G	0.01	-1.064918	0.2340281	7.94E-06
C	T	0.3	-0.2831653	0.05906979	2.68E-06
T	C	0.31	-0.2777766	0.05808508	2.82E-06
T	C	0.29	-0.2818747	0.05917284	3.07E-06
G	GGTTCA	0.1	-0.4421922	0.09119072	2.08E-06
CTCTGTCTA	C	0.02	-1.124614	0.2300227	1.73E-06
T	TACACAC	0.05	-0.698206	0.1350384	4.58E-07
T	TACACACAC	0.03	-0.7490886	0.1597205	4.28E-06
AAAATAAAT	A	0.03	-0.788685	0.1662909	3.37E-06
C	T	0.07	0.4941286	0.1062879	5.14E-06
C	T	0.17	0.3384444	0.07336892	6.03E-06
A	G	0.37	-0.2590922	0.05619976	6.10E-06
C	A	0.03	0.811447	0.1795801	9.13E-06
G	A	0.03	0.811447	0.1795801	9.13E-06
G	GT	0.01	-1.328733	0.2623213	7.57E-07
TTCTCTCTC	T	0.02	-0.9757906	0.2127291	6.76E-06

CTATCTATA	C	0.01	-1.149841	0.2337601	1.50E-06
A	G	0.43	-0.2720832	0.05769012	3.80E-06
G	GAC	0.02	-0.898727	0.1939121	5.47E-06
T	C	0.46	0.2592392	0.05582301	5.25E-06
C	T	0.01	-1.136066	0.2428426	4.51E-06
A	T	0.02	-0.8632855	0.1871281	6.02E-06
A	G	0.38	-0.251323	0.05488731	7.01E-06
A	G	0.13	-0.3845885	0.07986787	2.42E-06
C	T	0.14	-0.3771102	0.07892375	2.87E-06
T	C	0.14	-0.3850693	0.07872679	1.71E-06
C	T	0.14	-0.3786172	0.07901659	2.70E-06
T	G	0.13	-0.4106002	0.08094987	7.32E-07
T	C	0.13	-0.4006616	0.08040912	1.12E-06
T	C	0.13	-0.3935542	0.08139516	2.21E-06
C	A	0.13	-0.3727696	0.08024887	5.22E-06
T	C	0.13	-0.3630878	0.08019591	8.78E-06
T	G	0.13	-0.3630878	0.08019591	8.78E-06
T	G	0.13	-0.3630878	0.08019591	8.78E-06
T	G	0.13	-0.3727696	0.08024887	5.22E-06
G	C	0.13	-0.3792687	0.08007534	3.47E-06
G	A	0.13	-0.3792687	0.08007534	3.47E-06
T	C	0.13	-0.3630878	0.08019591	8.78E-06
G	A	0.13	-0.3630878	0.08019591	8.78E-06
C	T	0.13	-0.3727696	0.08024887	5.22E-06
G	A	0.13	-0.3727696	0.08024887	5.22E-06
A	G	0.13	-0.3630878	0.08019591	8.78E-06
C	T	0.13	-0.3727696	0.08024887	5.22E-06
A	G	0.13	-0.3693757	0.08004508	5.98E-06
C	T	0.13	-0.3790852	0.08151632	5.10E-06
T	C	0.13	-0.3859427	0.08162851	3.60E-06
A	G	0.13	-0.3764909	0.08158016	5.97E-06
G	T	0.1	-0.4126154	0.09121532	8.93E-06
C	CAT	0.13	0.3864375	0.08205323	3.92E-06
T	A	0.13	0.3837032	0.08101884	3.48E-06
T	G	0.13	0.3837032	0.08101884	3.48E-06
T	C	0.13	0.3837032	0.08101884	3.48E-06
AATT	A	0.14	0.3515065	0.0750821	4.44E-06
AG	A	0.13	0.3864375	0.08205323	3.92E-06
A	AAG	0.13	0.3864375	0.08205323	3.92E-06
G	T	0.13	0.3867603	0.0836778	5.79E-06
A	C	0.13	0.4094159	0.08098438	7.93E-07
T	C	0.12	0.384604	0.08460149	8.09E-06
A	C	0.13	0.3831002	0.08446679	8.48E-06
T	C	0.13	0.3831002	0.08446679	8.48E-06
C	T	0.12	0.3900868	0.08569414	7.88E-06
A	G	0.13	0.3831002	0.08446679	8.48E-06
G	A	0.14	0.3585996	0.07767914	5.94E-06
A	C	0.14	0.3629879	0.07755072	4.46E-06
T	TTTTTG	0.01	-1.366016	0.2645651	4.74E-07
T	G	0.01	-1.164442	0.256971	8.63E-06

G	A	0.02	-0.7844836	0.1705362	6.38E-06
T	C	0.02	-0.7844836	0.1705362	6.38E-06
C	T	0.03	-0.7975947	0.1580702	8.30E-07
G	A	0.17	-0.3448754	0.07302764	3.69E-06
G	A	0.03	0.7849502	0.1655142	3.38E-06
C	T	0.09	0.4454844	0.09840995	8.80E-06
C	T	0.17	-0.3410196	0.07491454	7.88E-06
A	AG	0.05	-0.6168848	0.1320205	4.62E-06
C	T	0.46	-0.1128219	0.02351178	2.52E-06
C	G	0.26	-0.129039	0.02796876	5.81E-06
G	A	0.19	-0.1305337	0.02837314	6.16E-06
A	G	0.26	0.1361568	0.02801293	1.89E-06
C	T	0.28	-0.1250022	0.02776551	9.52E-06
A	G	0.02	-0.4296396	0.08992369	2.77E-06
AATT	A	0.02	-0.4296396	0.08992369	2.77E-06
C	T	0.02	-0.4296396	0.08992369	2.77E-06
C	A	0.02	-0.4296396	0.08992369	2.77E-06
T	G	0.02	-0.4296396	0.08992369	2.77E-06
T	C	0.02	-0.4572423	0.09116723	9.14E-07
AG	A	0.02	-0.4278402	0.09009123	3.16E-06
C	T	0.02	-0.4745041	0.09822513	2.17E-06
TTATC	T	0.02	-0.4329439	0.09470787	7.01E-06
A	C	0.02	-0.4770193	0.0903439	2.54E-07
A	G	0.02	-0.3554383	0.07304099	1.84E-06
G	C	0.02	-0.4390275	0.08533879	4.92E-07
T	C	0.02	-0.4131538	0.0839833	1.44E-06
C	T	0.02	-0.4405407	0.09676447	7.62E-06
T	G	0.02	-0.4228894	0.09304311	7.88E-06
A	G	0.02	-0.4074251	0.0878287	5.19E-06
G	C	0.02	-0.4074251	0.0878287	5.19E-06
A	G	0.02	-0.3811038	0.08464609	9.50E-06
G	A	0.36	-0.1265647	0.02563424	1.32E-06
T	C	0.39	-0.1335931	0.02548185	3.05E-07
A	G	0.39	-0.1349247	0.02530381	1.96E-07
G	A	0.4	-0.1306917	0.02549342	5.37E-07
C	A	0.01	-0.5117997	0.103609	1.31E-06
A	G	0.44	-0.1079878	0.02389214	8.80E-06
T	C	0.27	-0.1279789	0.02684751	2.91E-06
T	C	0.27	-0.122305	0.02661163	6.29E-06
AG	A	0.27	-0.123813	0.02642006	4.19E-06
C	A	0.27	-0.1297816	0.02675764	1.98E-06
G	A	0.27	-0.1215471	0.02643931	6.25E-06
C	T	0.39	-0.124384	0.02367351	2.89E-07
T	C	0.28	-0.1261603	0.02634526	2.63E-06
G	A	0.28	-0.1256572	0.0262208	2.59E-06
G	A	0.28	-0.1236558	0.02625704	3.78E-06
A	AG	0.28	-0.1320063	0.02646482	1.04E-06
G	T	0.27	-0.1295244	0.02663949	1.88E-06
G	T	0.27	-0.1262928	0.02641156	2.72E-06
G	A	0.27	-0.1238567	0.02631571	3.83E-06

G	A	0.4	-0.126743	0.02340806	1.30E-07
T	G	0.4	-0.1235039	0.02355169	3.03E-07
C	T	0.38	-0.1204442	0.02371323	6.74E-07
G	A	0.26	-0.1219354	0.02710568	9.66E-06
G	T	0.38	-0.1162789	0.02353963	1.31E-06
G	T	0.26	-0.1220788	0.02661241	6.53E-06
A	C	0.26	-0.1242102	0.02664459	4.69E-06
G	A	0.38	-0.1194683	0.02365976	7.77E-07
T	C	0.25	-0.1328588	0.02735717	1.93E-06
G	T	0.38	-0.1169204	0.02367091	1.31E-06
G	A	0.38	-0.1148955	0.02366228	1.93E-06
A	G	0.38	-0.1189838	0.02366148	8.59E-07
C	G	0.38	-0.1158522	0.02368192	1.63E-06
G	A	0.26	-0.1259058	0.02719606	5.41E-06
A	G	0.38	-0.1126638	0.02351131	2.59E-06
A	G	0.38	-0.1153608	0.02368395	1.80E-06
C	G	0.38	-0.1159418	0.02371713	1.66E-06
C	T	0.38	-0.1187747	0.02374632	9.75E-07
C	T	0.38	-0.1154633	0.02371109	1.81E-06
ATTAT	A	0.38	-0.1112636	0.02357177	3.60E-06
G	T	0.26	-0.1238674	0.02721236	7.64E-06
G	T	0.26	-0.1243223	0.02720498	7.06E-06
T	G	0.26	-0.1267875	0.02729009	5.03E-06
G	A	0.26	-0.1235111	0.02700081	6.92E-06
A	G	0.26	-0.124463	0.02711516	6.45E-06
G	A	0.25	-0.1250701	0.02727979	6.61E-06
T	G	0.26	-0.1246328	0.02712427	6.32E-06
G	A	0.26	-0.1260692	0.02710487	4.91E-06
C	T	0.38	-0.1206315	0.023661	6.15E-07
G	GA	0.37	-0.127595	0.02383107	1.76E-07
A	T	0.37	-0.11678	0.02400278	1.85E-06
T	C	0.37	-0.1217077	0.02395977	6.73E-07
G	C	0.36	-0.1228061	0.02418334	6.78E-07
A	G	0.37	-0.1194359	0.02399543	1.09E-06
G	GA	0.26	-0.128091	0.02685128	2.86E-06
A	G	0.38	-0.1207701	0.0236542	5.94E-07
A	G	0.36	-0.1232163	0.02382515	4.32E-07
C	T	0.36	-0.1223508	0.02380112	5.02E-07
A	G	0.25	-0.1269282	0.02721349	4.64E-06
A	G	0.38	-0.1207701	0.0236542	5.94E-07
C	T	0.36	-0.1178884	0.02380399	1.23E-06
T	C	0.38	-0.1151498	0.02376111	2.02E-06
C	T	0.26	-0.1204919	0.02656102	8.18E-06
T	A	0.25	-0.1215011	0.02689632	8.90E-06
G	A	0.38	-0.1194414	0.02342927	6.16E-07
GA	G	0.27	-0.1188811	0.02608873	7.48E-06
T	C	0.37	-0.1165197	0.02313322	8.25E-07
C	G	0.31	-0.1250356	0.0257265	1.89E-06
G	A	0.3	-0.1293375	0.02577959	9.07E-07
G	A	0.36	-0.1132212	0.02489372	7.77E-06

T	A	0.32	-0.1222336	0.02589613	3.60E-06
G	A	0.34	-0.1162088	0.02538192	6.80E-06
T	G	0.03	-0.3358978	0.07346219	6.98E-06
A	G	0.04	-0.2728215	0.06005524	7.95E-06
C	T	0.04	-0.2728215	0.06005524	7.95E-06
C	G	0.01	-0.481836	0.09815306	1.51E-06
G	A	0.02	-0.4471821	0.09389114	2.96E-06
AT	A	0.05	-0.2576485	0.0560117	6.18E-06
G	A	0.07	-0.2169929	0.0475987	7.41E-06
A	T	0.08	-0.1981257	0.04376682	8.54E-06
G	T	0.02	-0.4829036	0.09384862	4.90E-07
A	C	0.05	-0.2635229	0.05312374	1.18E-06
AT	A	0.05	-0.2635229	0.05312374	1.18E-06
A	G	0.05	-0.2635229	0.05312374	1.18E-06
G	A	0.05	-0.2635229	0.05312374	1.18E-06
A	G	0.05	-0.2635229	0.05312374	1.18E-06
A	G	0.05	-0.2635229	0.05312374	1.18E-06
T	A	0.06	-0.255308	0.05245851	1.84E-06
T	G	0.04	-0.2871905	0.06136001	4.31E-06
T	A	0.39	0.1133119	0.02468969	6.47E-06
G	A	0.04	-0.2810553	0.06162024	7.34E-06
C	A	0.27	0.1233761	0.02693074	6.71E-06
C	A	0.27	0.12717	0.0268404	3.32E-06
G	A	0.27	0.1231913	0.02693183	6.93E-06
G	A	0.27	0.1246012	0.02684267	5.12E-06
G	C	0.18	0.1414718	0.03114188	7.96E-06
G	C	0.19	0.1403349	0.03057898	6.48E-06
C	G	0.2	0.1378743	0.03015719	7.00E-06
T	C	0.19	0.1395595	0.03016915	5.50E-06
G	T	0.01	-0.5290619	0.1164671	7.96E-06
T	C	0.03	-0.3017263	0.06707436	9.67E-06
C	T	0.04	0.2998388	0.06540246	6.62E-06
T	C	0.07	-0.2146749	0.04723332	7.88E-06
C	T	0.07	-0.2211444	0.04696899	3.80E-06
A	G	0.01	-0.5424769	0.1116913	1.92E-06
G	A	0.02	-0.4485832	0.09805862	6.91E-06
C	T	0.01	-0.4840887	0.106678	8.13E-06
C	T	0.01	-0.4840887	0.106678	8.13E-06
C	T	0.02	-0.4574851	0.08947455	5.73E-07
A	T	0.02	-0.4466046	0.09149255	1.72E-06
C	T	0.02	-0.4574851	0.08947455	5.73E-07
CT	C	0.02	-0.4574851	0.08947455	5.73E-07
G	A	0.02	-0.4574851	0.08947455	5.73E-07
C	T	0.01	-0.5603288	0.1132564	1.26E-06
G	A	0.01	-0.535965	0.1161333	5.77E-06
A	G	0.01	-0.5718039	0.1096735	3.52E-07
T	C	0.47	-0.1114875	0.02445458	7.41E-06
G	C	0.47	-0.1099648	0.02445657	9.76E-06
C	T	0.01	-0.4760103	0.1032398	5.89E-06
T	C	0.45	-0.1149746	0.0234283	1.52E-06

T	C	0.44	-0.1123646	0.02356269	2.88E-06
A	G	0.02	-0.3474455	0.07581071	6.66E-06
G	T	0.4	0.1067371	0.023259	6.48E-06
T	A	0.03	-0.3404544	0.07380507	5.83E-06
T	A	0.13	-0.1696496	0.03683361	6.02E-06
A	G	0.13	-0.1696496	0.03683361	6.02E-06
T	G	0.01	-0.5805411	0.1208382	2.45E-06
AAC	A	0.29	-0.1361608	0.02895902	3.91E-06
C	T	0.01	-0.5930431	0.1205685	1.44E-06
G	T	0.01	-0.5527653	0.1094177	7.68E-07
A	G	0.03	-0.3197081	0.07054026	8.33E-06
A	ATT	0.03	-0.3292358	0.07176274	6.52E-06
T	G	0.01	-0.5420407	0.1107903	1.63E-06
C	T	0.02	-0.420228	0.08889854	3.49E-06
G	A	0.02	-0.3518484	0.07688844	6.87E-06
G	A	0.02	-0.4331408	0.09182294	3.65E-06
A	T	0.02	-0.3992631	0.08492487	3.92E-06
A	C	0.01	-0.5130106	0.113601	8.96E-06
G	T	0.03	-0.3610027	0.06992474	4.51E-07
C	T	0.03	-0.3046763	0.06721009	8.30E-06
T	A	0.03	-0.3046763	0.06721009	8.30E-06
A	G	0.02	-0.4339378	0.09529433	7.58E-06
A	ATAAAT	0.45	-0.1117979	0.02452681	7.43E-06
C	A	0.02	-0.4381611	0.09298817	3.73E-06
C	T	0.02	-0.3709333	0.08203418	8.73E-06
GT	G	0.17	-0.1480595	0.03122774	3.27E-06
A	T	0.01	-0.5880695	0.1211927	1.96E-06
C	T	0.01	-0.5880695	0.1211927	1.96E-06
AT	A	0.2	0.141874	0.03087926	6.33E-06
T	C	0.01	-0.4727473	0.1045151	8.67E-06
T	G	0.12	-0.1666412	0.03695247	9.21E-06
C	T	0.1	-0.1898587	0.04060115	4.39E-06
A	C	0.2	0.1533734	0.03117817	1.44E-06
C	T	0.17	0.152374	0.03293771	5.50E-06
T	C	0.19	0.1475393	0.03147882	4.18E-06
A	C	0.03	-0.3078851	0.06835435	9.42E-06
G	GA	0.38	-0.1166791	0.02509194	4.94E-06
T	G	0.02	-0.4079203	0.0847678	2.36E-06
T	A	0.05	0.2370292	0.05247467	8.91E-06
C	T	0.03	-0.3502389	0.07794575	9.88E-06
CGTGTGT	C	0.13	0.1764033	0.03796529	5.02E-06
C	T	0.35	-0.1146226	0.02535509	8.77E-06
G	GT	0.49	-0.1190783	0.02526784	3.72E-06
C	T	0.45	0.1161827	0.02579502	9.43E-06
G	A	0.01	-0.4959862	0.1089657	7.65E-06
G	GA	0.49	-0.1188122	0.02464373	2.27E-06
C	T	0.49	0.1176674	0.02394899	1.48E-06
A	T	0.2	-0.140662	0.03122302	9.39E-06
G	A	0.08	0.2161507	0.04677887	5.63E-06
T	G	0.08	0.2161507	0.04677887	5.63E-06

T	C	0.08	0.2161507	0.04677887	5.63E-06
A	G	0.08	0.2161507	0.04677887	5.63E-06
T	A	0.08	0.2161507	0.04677887	5.63E-06
T	G	0.08	0.2161507	0.04677887	5.63E-06
CA	C	0.14	-0.1526141	0.03332097	6.75E-06
T	TTGAG	0.04	-0.3264847	0.06958084	4.09E-06
A	G	0.32	0.1189804	0.02615477	7.74E-06
T	C	0.21	0.1448759	0.03117259	4.99E-06
T	C	0.28	-0.1244074	0.02755425	8.99E-06
G	A	0.09	-0.1954479	0.04318083	8.56E-06
CTT	C	0.1	-0.2093614	0.03933415	2.06E-07
A	C	0.02	-0.3914898	0.08648988	8.55E-06
C	A	0.01	-0.4956139	0.1088905	7.66E-06
T	C	0.03	-0.326688	0.07067412	5.59E-06
C	CT	0.01	-0.5563905	0.1210748	6.30E-06
TGC	T	0.07	-0.2443471	0.05202544	4.00E-06
T	C	0.3	-0.1284064	0.02824779	7.85E-06
G	A	0.2	-0.1569813	0.0338391	5.19E-06
C	G	0.05	0.2697213	0.05914092	7.35E-06
G	GC	0.1	0.2158443	0.04656131	5.27E-06
CACACAT	C	0.04	-0.3257031	0.07195004	8.54E-06
G	T	0.42	0.1364553	0.02796404	1.73E-06
C	T	0.45	-0.1284598	0.02683898	2.66E-06
G	T	0.45	-0.1282804	0.02683022	2.73E-06
A	ATG	0.44	-0.1298129	0.02827667	6.43E-06
C	A	0.05	-0.2780735	0.05926862	4.09E-06
C	T	0.05	-0.2667381	0.05904679	8.90E-06
G	A	0.05	-0.2667381	0.05904679	8.90E-06
C	A	0.03	0.3706493	0.08166267	8.10E-06
T	A	0.27	-0.1401126	0.03047638	6.25E-06
C	A	0.12	-0.1699758	0.03737294	7.77E-06
T	TC	0.06	-0.2524069	0.05411864	4.64E-06
C	A	0.04	0.3144109	0.06843925	6.34E-06
C	CT	0.07	-0.2480647	0.05269823	3.82E-06
G	A	0.35	-0.1369498	0.02786252	1.47E-06
A	G	0.37	-0.1304442	0.02756213	3.40E-06
C	T	0.42	-0.1199335	0.02558017	4.15E-06
TAC	T	0.11	-0.204407	0.04433039	5.88E-06
G	A	0.36	-0.1215985	0.0268563	8.50E-06
T	TTCTC	0.08	0.2349469	0.051021	6.04E-06
C	T	0.18	0.1539563	0.03400871	8.53E-06
C	CGT	0.07	0.2544883	0.05423663	4.09E-06
T	C	0.04	-0.3135845	0.06929484	8.59E-06
C	G	0.08	0.2303807	0.05002093	6.02E-06
CACACAA	C	0.06	0.2850577	0.05405479	2.62E-07
C	A	0.24	-0.1440619	0.03201963	9.64E-06
G	A	0.24	-0.1440619	0.03201963	9.64E-06
T	A	0.24	-0.143726	0.03198734	9.89E-06
A	C	0.24	-0.143726	0.03198734	9.89E-06
C	T	0.24	-0.1462245	0.03182052	6.31E-06

C	T	0.24	-0.1452896	0.03183611	7.26E-06
A	G	0.24	-0.1445275	0.0316234	7.05E-06
AT	A	0.24	-0.1484658	0.03123438	3.10E-06
G	A	0.14	-0.1748369	0.03877966	9.25E-06
CA	C	0.08	0.2275483	0.04938982	5.98E-06
A	G	0.31	0.1315574	0.02910961	8.82E-06
T	C	0.15	0.1816822	0.04009674	8.38E-06
CTACTTT	C	0.24	0.1468533	0.03250625	8.89E-06
T	TC	0.29	0.1307294	0.02900801	9.33E-06
A	G	0.34	0.1262619	0.02788968	8.52E-06
G	GCACACA	0.08	0.2252131	0.04750696	3.28E-06
G	C	0.29	-0.1220904	0.02634773	5.31E-06
C	T	0.14	0.163612	0.0360861	8.27E-06
T	A	0.2	0.1567396	0.03454629	8.16E-06
A	C	0.04	-0.2810748	0.06218367	8.79E-06
A	G	0.02	-0.8602394	0.1720231	1.01E-06
C	T	0.02	0.8963785	0.1900627	3.75E-06
A	T	0.11	-0.361447	0.07735378	4.56E-06
C	T	0.11	-0.3595508	0.07674463	4.32E-06
C	T	0.04	0.5897492	0.1280582	6.16E-06
A	G	0.04	0.5839894	0.1267143	6.07E-06
C	G	0.03	-0.6178945	0.1354312	7.45E-06
AAC	A	0.09	-0.4146871	0.089126	4.99E-06
T	A	0.02	-0.9726891	0.2069492	4.03E-06
G	C	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
T	G	0.08	0.4395595	0.09643483	7.59E-06
C	G	0.08	0.4395595	0.09643483	7.59E-06
A	G	0.08	0.4395595	0.09643483	7.59E-06
C	A	0.07	0.4477994	0.09917673	9.16E-06
G	A	0.07	0.4615923	0.1001396	6.05E-06
C	G	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
A	G	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
C	T	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
GGATA	G	0.08	0.4536868	0.09479657	2.73E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
T	TTTCTTCACTTGC	0.07	0.4984041	0.09915369	8.93E-07
A	G	0.08	0.4395595	0.09643483	7.59E-06
A	G	0.08	0.4395595	0.09643483	7.59E-06
C	G	0.08	0.4395595	0.09643483	7.59E-06
C	T	0.08	0.4395595	0.09643483	7.59E-06

G	A	0.08	0.4395595	0.09643483	7.59E-06
A	G	0.08	0.4395595	0.09643483	7.59E-06
G	A	0.08	0.4395595	0.09643483	7.59E-06
T	C	0.08	0.4395595	0.09643483	7.59E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
C	CT	0.1	0.4273756	0.0830042	4.98E-07
AG	A	0.11	0.3813124	0.07939698	2.53E-06
C	T	0.11	0.3769248	0.07961304	3.45E-06
A	T	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
A	T	0.11	0.3813124	0.07939698	2.53E-06
T	C	0.11	0.3813124	0.07939698	2.53E-06
G	A	0.11	0.3813124	0.07939698	2.53E-06
G	GT	0.11	0.3813124	0.07939698	2.53E-06
G	A	0.11	0.3813124	0.07939698	2.53E-06
T	C	0.11	0.3813124	0.07939698	2.53E-06
T	C	0.11	0.3813124	0.07939698	2.53E-06
A	C	0.11	0.3813124	0.07939698	2.53E-06
T	C	0.11	0.3839322	0.07955365	2.27E-06
TTTG	T	0.11	0.3813124	0.07939698	2.53E-06
A	C	0.11	0.3813124	0.07939698	2.53E-06
C	A	0.11	0.3813124	0.07939698	2.53E-06
C	G	0.11	0.3835605	0.07951934	2.30E-06
G	A	0.11	0.4019744	0.08100196	1.21E-06
C	T	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
C	T	0.11	0.3813124	0.07939698	2.53E-06
T	A	0.11	0.3813124	0.07939698	2.53E-06
G	A	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.11	0.3813124	0.07939698	2.53E-06
G	A	0.11	0.3813124	0.07939698	2.53E-06
C	T	0.11	0.3813124	0.07939698	2.53E-06
A	G	0.08	0.4383685	0.09746683	9.89E-06
C	A	0.08	0.4457958	0.09814064	8.13E-06
AT	A	0.09	-0.3907504	0.08376131	4.72E-06
G	A	0.07	-0.4501993	0.09983566	9.39E-06
G	T	0.07	-0.4501993	0.09983566	9.39E-06
C	T	0.07	-0.4501993	0.09983566	9.39E-06
CTTAATCTGTGAGGG	G	0.06	-0.4568874	0.1003785	7.81E-06
C	G	0.09	0.4266371	0.08458355	8.23E-07
T	A	0.03	0.627667	0.1391675	9.36E-06
A	G	0.04	-0.5747721	0.1175697	1.70E-06
A	G	0.05	-0.5039162	0.1104666	7.47E-06
G	A	0.07	-0.4195208	0.09124047	6.36E-06
T	C	0.07	-0.4207925	0.09191702	6.95E-06
C	CAACA	0.07	-0.4364744	0.09532505	6.93E-06
G	C	0.07	-0.4207925	0.09191702	6.95E-06
G	A	0.07	-0.4207925	0.09191702	6.95E-06

A	G	0.06	-0.4853465	0.1014998	2.79E-06
C	T	0.05	-0.5129313	0.1034934	1.24E-06
T	C	0.06	-0.4642137	0.1015712	7.19E-06
T	C	0.05	-0.4724562	0.104749	9.35E-06
A	G	0.05	-0.4724562	0.104749	9.35E-06
G	A	0.05	-0.4724562	0.104749	9.35E-06
C	T	0.05	-0.4724562	0.104749	9.35E-06
A	G	0.01	1.042059	0.2078751	9.53E-07
C	T	0.01	1.042059	0.2078751	9.53E-07
T	TGG	0.11	0.3594597	0.07698755	4.64E-06
C	G	0.02	0.8372457	0.1579257	2.37E-07
G	GACACACACACAC	0.27	-0.2398146	0.05257558	7.48E-06
GCACA	G	0.05	0.5087746	0.109815	5.45E-06
C	A	0.13	-0.3354676	0.07019901	2.82E-06
T	C	0.13	-0.3317536	0.07037663	3.79E-06
T	G	0.13	-0.3354676	0.07019901	2.82E-06
G	A	0.13	-0.3354676	0.07019901	2.82E-06
C	T	0.13	-0.3285089	0.0708667	5.38E-06
G	A	0.13	-0.3359005	0.07069481	3.20E-06
C	A	0.13	-0.3336903	0.07060614	3.59E-06
G	C	0.13	-0.3336903	0.07060614	3.59E-06
T	C	0.13	-0.3376072	0.07113112	3.27E-06
C	G	0.4	-0.2163891	0.04748998	7.64E-06
C	G	0.47	0.2179162	0.04827951	9.22E-06
A	T	0.02	-0.8949632	0.1960186	7.34E-06
T	C	0.45	0.2281665	0.04875523	4.42E-06
A	G	0.45	0.2175111	0.04822065	9.34E-06
T	C	0.08	-0.3965999	0.08604892	6.06E-06
C	T	0.04	0.6000419	0.129336	5.29E-06
C	G	0.04	0.6172345	0.1279666	2.30E-06
C	G	0.34	0.2231458	0.04925973	8.59E-06
C	A	0.35	0.2241156	0.0492161	7.74E-06
G	A	0.35	0.2357228	0.0518908	8.12E-06
C	T	0.06	-0.4790391	0.1048834	7.29E-06
GC	G	0.13	-0.3415147	0.07488929	7.52E-06
C	A	0.39	-0.2303334	0.048072	2.67E-06
G	A	0.39	-0.2303334	0.048072	2.67E-06
C	T	0.39	-0.2326748	0.0479589	2.02E-06
C	A	0.39	-0.2261595	0.04795542	3.75E-06
A	G	0.39	-0.2249141	0.04806298	4.42E-06
C	T	0.39	-0.2272327	0.04818278	3.75E-06
T	G	0.39	-0.2275587	0.04810686	3.52E-06
C	T	0.39	-0.2360519	0.04809446	1.56E-06
T	C	0.39	-0.2343011	0.04785679	1.65E-06
T	C	0.4	-0.2364521	0.04787004	1.35E-06
G	A	0.4	-0.2248283	0.04807255	4.48E-06
G	C	0.4	-0.2201992	0.04785139	6.26E-06
C	G	0.4	-0.2240391	0.04798487	4.64E-06
T	A	0.4	-0.2278968	0.04790764	3.12E-06
A	G	0.4	-0.2175707	0.04776473	7.69E-06

G	A	0.4	-0.2345642	0.04755291	1.39E-06
G	A	0.4	-0.2216635	0.04807429	6.01E-06
A	G	0.42	-0.2268059	0.04613088	1.50E-06
T	A	0.4	-0.2248265	0.04808113	4.50E-06
G	A	0.39	-0.2224341	0.04818382	5.87E-06
C	T	0.05	-0.5068505	0.110626	6.84E-06
G	A	0.01	-0.9752115	0.2093464	4.86E-06
T	C	0.02	-0.8129627	0.177274	6.71E-06
T	C	0.02	-0.8129627	0.177274	6.71E-06
G	T	0.02	-0.8129627	0.177274	6.71E-06
C	T	0.02	-0.8129627	0.177274	6.71E-06
A	G	0.02	-0.8129627	0.177274	6.71E-06
TC	T	0.02	-0.8129627	0.177274	6.71E-06
A	G	0.31	-0.2522495	0.05490612	6.47E-06
C	T	0.31	-0.2519021	0.05456013	5.85E-06
C	A	0.31	-0.2577785	0.05458145	3.64E-06
G	A	0.02	0.7501833	0.1628636	6.14E-06
G	C	0.02	0.7501833	0.1628636	6.14E-06
T	A	0.02	0.9031489	0.1866945	2.16E-06
G	T	0.02	0.8761542	0.1948184	9.90E-06
G	A	0.04	-0.4975385	0.1104988	9.67E-06
T	G	0.13	0.3208375	0.07130722	9.81E-06
A	T	0.13	0.3347033	0.07405684	8.99E-06
C	T	0.05	0.5352363	0.1163272	6.28E-06
T	C	0.14	0.3198994	0.07065134	8.67E-06
C	T	0.14	0.317007	0.07018484	9.10E-06
T	C	0.13	0.3300008	0.0715912	6.05E-06
A	G	0.39	-0.2346009	0.05157314	7.90E-06
G	A	0.49	-0.2282027	0.04891787	4.72E-06
T	C	0.26	-0.2501978	0.05517779	8.42E-06
TATATC	T	0.43	-0.2213606	0.04895577	8.90E-06
T	TAGAG	0.42	-0.2215524	0.04912608	9.37E-06
A	G	0.06	-0.4827419	0.1069593	9.23E-06
C	T	0.06	-0.4874938	0.1064214	6.87E-06
T	C	0.06	-0.4874938	0.1064214	6.87E-06
C	T	0.05	-0.5032809	0.1101759	7.27E-06
T	C	0.35	0.2311792	0.05120241	9.17E-06
G	C	0.06	-0.4753756	0.1028474	5.72E-06
CGTGTGTGTGTGT	C	0.03	0.6874016	0.1487139	5.71E-06
G	GC	0.49	-0.2191788	0.04676983	4.29E-06
A	T	0.44	0.2244485	0.04770473	3.95E-06
CAG	C	0.47	-0.23157	0.0471482	1.53E-06
T	C	0.47	0.2351145	0.04759881	1.35E-06
A	C	0.3	-0.2432879	0.05343889	7.77E-06
C	T	0.28	-0.2460322	0.05426805	8.45E-06
A	G	0.3	-0.2471169	0.05307232	4.91E-06
C	T	0.3	-0.2500107	0.05360743	4.75E-06
A	T	0.3	-0.2460996	0.05332947	5.91E-06
C	T	0.3	-0.2470686	0.05358727	6.02E-06
C	G	0.3	-0.2470686	0.05358727	6.02E-06

A	G	0.3	-0.2448925	0.05306067	5.89E-06
T	C	0.3	-0.2435059	0.05342068	7.58E-06
C	T	0.3	-0.2458661	0.05334212	6.05E-06
C	T	0.3	-0.2470095	0.05306744	4.95E-06
G	A	0.3	-0.2500248	0.05316853	3.99E-06
G	T	0.3	-0.2492893	0.05347364	4.79E-06
CG	C	0.29	-0.251921	0.05347761	3.84E-06
C	T	0.01	-1.097845	0.243115	9.00E-06
C	T	0.46	-0.2435867	0.05336226	7.26E-06
C	G	0.03	-0.7156676	0.1577885	8.25E-06
T	C	0.07	0.4579922	0.1005213	7.54E-06
T	TTCTATC	0.1	-0.4234059	0.09298584	7.63E-06
C	T	0.09	-0.4250474	0.09300285	7.08E-06
G	GA	0.08	0.475052	0.09970055	2.95E-06
A	AG	0.1	0.4169048	0.09236859	9.09E-06
TG	T	0.09	0.4303528	0.09455338	7.70E-06
TTTCC	T	0.37	-0.2854921	0.05496518	3.90E-07
G	C	0.06	-0.5222126	0.1118501	4.56E-06
T	G	0.06	-0.4987812	0.1108884	9.73E-06
G	C	0.06	-0.4987812	0.1108884	9.73E-06
G	C	0.06	-0.4987812	0.1108884	9.73E-06
C	T	0.05	-0.553296	0.1223643	8.77E-06
G	A	0.12	-0.3741612	0.08051774	5.03E-06
TACAC	T	0.07	-0.4906887	0.1083773	8.55E-06
C	T	0.02	-0.9483723	0.2087486	7.98E-06
GA	G	0.02	-0.9483723	0.2087486	7.98E-06
G	C	0.02	-0.9483723	0.2087486	7.98E-06
C	T	0.03	-0.7904286	0.1547959	5.97E-07
T	C	0.03	-0.7904286	0.1547959	5.97E-07
G	A	0.37	-0.2311566	0.05144146	9.92E-06
C	A	0.05	0.5826774	0.1212466	2.45E-06
C	A	0.05	0.5826774	0.1212466	2.45E-06
C	T	0.05	0.5826774	0.1212466	2.45E-06
T	C	0.05	0.5694014	0.120821	3.74E-06
T	G	0.05	0.5588238	0.1223135	7.13E-06
C	T	0.05	0.5588238	0.1223135	7.13E-06
A	T	0.05	0.5588238	0.1223135	7.13E-06
C	T	0.05	0.5588238	0.1223135	7.13E-06
A	G	0.05	0.5588238	0.1223135	7.13E-06
G	T	0.05	0.5694014	0.120821	3.74E-06
C	T	0.05	0.5588238	0.1223135	7.13E-06
C	T	0.05	0.5686387	0.1247735	7.50E-06
G	T	0.05	0.6203686	0.1234134	8.72E-07
G	A	0.05	0.5913063	0.1218518	1.97E-06
C	T	0.05	0.5678439	0.1239318	6.73E-06
G	A	0.05	0.6054666	0.1227306	1.36E-06
G	A	0.05	0.5913063	0.1218518	1.97E-06
G	C	0.05	0.5746776	0.122641	4.23E-06
A	T	0.05	0.5913063	0.1218518	1.97E-06
G	T	0.05	0.5583861	0.1229995	8.10E-06

G	A	0.05	0.5588238	0.1223135	7.13E-06
T	G	0.05	0.5588238	0.1223135	7.13E-06
G	A	0.05	0.5588238	0.1223135	7.13E-06
C	T	0.05	0.5496751	0.1175481	4.42E-06
C	T	0.05	0.5496751	0.1175481	4.42E-06
T	A	0.05	0.5496751	0.1175481	4.42E-06
C	T	0.05	0.5496751	0.1175481	4.42E-06
G	A	0.05	0.5336552	0.1186428	9.73E-06
T	A	0.05	0.5496751	0.1175481	4.42E-06
GTTTT	G	0.05	0.5496751	0.1175481	4.42E-06
C	G	0.05	0.5496751	0.1175481	4.42E-06
T	C	0.05	0.5496751	0.1175481	4.42E-06
A	G	0.05	0.5496751	0.1175481	4.42E-06
G	T	0.05	0.5496751	0.1175481	4.42E-06
A	C	0.05	0.5496751	0.1175481	4.42E-06
C	T	0.05	0.5496751	0.1175481	4.42E-06
C	T	0.05	0.5542732	0.1196241	5.35E-06
T	G	0.05	0.5542732	0.1196241	5.35E-06
G	A	0.05	0.5542732	0.1196241	5.35E-06
AT	A	0.05	0.5542732	0.1196241	5.35E-06
T	C	0.05	0.5542732	0.1196241	5.35E-06
A	G	0.05	0.5542732	0.1196241	5.35E-06
G	A	0.05	0.5542732	0.1196241	5.35E-06
A	AT	0.05	0.5542732	0.1196241	5.35E-06
T	C	0.05	0.5542732	0.1196241	5.35E-06
T	G	0.05	0.5542732	0.1196241	5.35E-06
T	C	0.05	0.5542732	0.1196241	5.35E-06
A	T	0.05	0.5542732	0.1196241	5.35E-06
C	T	0.05	0.5542732	0.1196241	5.35E-06
C	G	0.05	0.5542732	0.1196241	5.35E-06
T	C	0.05	0.5542732	0.1196241	5.35E-06
C	G	0.05	0.5542732	0.1196241	5.35E-06
A	G	0.05	0.5407059	0.1175642	6.23E-06
T	C	0.07	0.4591178	0.09951364	5.84E-06
C	T	0.08	0.4151188	0.08739812	3.16E-06
C	T	0.07	0.4591178	0.09951364	5.84E-06
C	G	0.07	0.4591178	0.09951364	5.84E-06
CT	C	0.06	0.5220955	0.1073728	1.89E-06
G	C	0.08	0.4986634	0.1000478	1.07E-06
A	G	0.08	0.4600181	0.09923346	5.29E-06
T	TTCC	0.08	0.4770371	0.09915428	2.39E-06
CAG	C	0.08	0.4877834	0.09943853	1.54E-06
G	C	0.08	0.4600181	0.09923346	5.29E-06
A	AGCAAAGGTT	0.07	0.4784864	0.1059275	8.95E-06
C	G	0.08	0.4600181	0.09923346	5.29E-06
T	G	0.08	0.4600181	0.09923346	5.29E-06
AAAG	A	0.08	0.4877834	0.09943853	1.54E-06
C	T	0.08	0.4600181	0.09923346	5.29E-06
C	G	0.08	0.4600181	0.09923346	5.29E-06
T	C	0.1	-0.4119507	0.0893152	5.88E-06

C	CATATAT	0.01	-1.110153	0.2468127	9.73E-06
C	CA	0.01	-1.06103	0.2223613	2.86E-06
C	T	0.35	0.2929126	0.05454371	1.64E-07
C	T	0.36	0.2760329	0.05400505	5.83E-07
C	T	0.35	0.2842388	0.05466283	3.79E-07
G	A	0.35	0.2874751	0.05471761	2.92E-07
T	G	0.38	0.2623811	0.05357448	1.60E-06
A	G	0.39	0.2623215	0.05336219	1.47E-06
A	G	0.39	0.2557685	0.0532488	2.48E-06
T	TC	0.39	0.2514848	0.05323258	3.55E-06
G	C	0.35	0.2821392	0.05378814	3.04E-07
A	G	0.34	0.2618696	0.05439983	2.36E-06
A	G	0.38	0.2442484	0.05358221	7.46E-06
A	ATTTGT	0.13	-0.3893886	0.08344195	4.61E-06
A	T	0.03	-0.8216897	0.1647602	1.05E-06
T	TTG	0.05	-0.5796675	0.1228113	3.62E-06
G	A	0.03	-0.7233182	0.1523954	3.21E-06
G	A	0.04	-0.6485693	0.1393127	4.84E-06
T	C	0.05	-0.5645866	0.1232866	6.80E-06
A	T	0.3	0.262896	0.05758202	7.23E-06
T	C	0.26	0.2835378	0.06105742	5.11E-06
A	G	0.26	0.2835378	0.06105742	5.11E-06
C	G	0.26	0.2835378	0.06105742	5.11E-06
T	C	0.02	-0.9176641	0.1861228	1.37E-06
A	T	0.39	-0.2543005	0.05407433	3.92E-06
G	C	0.18	-0.3095752	0.06858689	9.09E-06
C	CA	0.07	0.5140551	0.0992775	4.22E-07
C	A	0.29	-0.2779545	0.06119137	8.01E-06
C	G	0.29	-0.2708865	0.06030441	9.99E-06
C	A	0.29	-0.2708865	0.06030441	9.99E-06
G	A	0.29	-0.2708865	0.06030441	9.99E-06
G	C	0.03	-0.6836696	0.1518699	9.58E-06
A	G	0.04	-0.6914865	0.1417773	1.76E-06
C	T	0.06	-0.4963033	0.1099943	9.15E-06
C	T	0.13	-0.3523711	0.07781604	8.49E-06
G	A	0.01	-1.02395	0.2254084	7.97E-06
T	A	0.01	-1.050823	0.23086	7.65E-06
C	T	0.01	-1.027373	0.2242475	6.71E-06
CT	C	0.19	0.2955889	0.06503174	7.88E-06
G	A	0.23	0.2821285	0.06146745	6.47E-06
G	C	0.23	0.2822553	0.06127892	6.02E-06
T	A	0.23	0.2798752	0.06127547	7.14E-06
T	G	0.01	-1.119142	0.2335618	2.60E-06
G	C	0.01	-1.119142	0.2335618	2.60E-06
A	T	0.01	-1.119694	0.2410722	5.06E-06
C	T	0.01	-1.119142	0.2335618	2.60E-06
A	G	0.01	-1.119142	0.2335618	2.60E-06
AAGG	A	0.04	-0.6524447	0.1369193	2.94E-06
TAG	T	0.22	0.3078652	0.06824497	9.15E-06
A	G	0.5	-0.2472729	0.05310302	4.80E-06

TG	T	0.25	0.2493196	0.05427044	6.35E-06
T	CCCCACCTCCCTCCCA	0.01	-1.056413	0.2341652	9.14E-06
C	T	0.02	-0.9164485	0.1752458	3.26E-07
A	T	0.36	-0.251712	0.05493279	6.69E-06
T	G	0.35	-0.2473653	0.05496693	9.60E-06
A	G	0.39	-0.2679839	0.05271845	6.62E-07
C	T	0.17	-0.3144095	0.0692999	8.17E-06
C	T	0.01	-1.008281	0.2197626	6.52E-06
G	A	0.06	0.5074223	0.1107309	6.68E-06
C	A	0.04	-0.6076844	0.1348375	9.33E-06
T	C	0.02	-0.9520145	0.1993278	2.79E-06
T	A	0.03	-0.6997136	0.1508248	5.19E-06
G	A	0.02	-0.8945252	0.1970046	8.04E-06
T	A	0.14	0.3356672	0.07264832	5.64E-06
G	A	0.22	0.3115118	0.0618545	8.29E-07
TA	T	0.02	-0.962098	0.2077911	5.41E-06
G	A	0.05	-0.5754443	0.12416	5.30E-06
G	C	0.02	-0.7826722	0.1673809	4.40E-06
TTA	T	0.15	0.3525183	0.07602795	5.25E-06
A	AT	0.02	-0.713235	0.157762	8.77E-06
A	AAATT	0.3	0.2738879	0.05879779	4.77E-06
TA	T	0.02	-0.8934669	0.1922524	5.00E-06
C	G	0.03	-0.7507698	0.1647417	7.47E-06
T	A	0.03	-0.7507698	0.1647417	7.47E-06
G	A	0.02	-1.047214	0.2119432	1.30E-06
C	G	0.04	-0.6113968	0.1266075	2.19E-06
T	C	0.03	-0.6856543	0.1511019	8.14E-06
T	C	0.04	-0.6435559	0.1367637	3.85E-06
G	A	0.03	-0.7131144	0.1522209	4.23E-06
C	G	0.04	-0.6719009	0.1376503	1.72E-06
C	T	0.2	-0.2806607	0.06230165	9.41E-06
G	A	0.01	-1.225494	0.2653946	5.72E-06
A	G	0.03	-0.6828312	0.1489266	6.61E-06
T	C	0.03	-0.6828312	0.1489266	6.61E-06
T	C	0.07	0.565261	0.1077591	3.01E-07
C	T	0.09	0.4654614	0.09630045	2.15E-06
AT	A	0.09	0.4280798	0.09287356	5.93E-06
G	C	0.09	0.4654614	0.09630045	2.15E-06
C	T	0.09	0.4714123	0.09590699	1.47E-06
T	C	0.09	0.4703897	0.09608777	1.61E-06
T	TTTTTG	0.09	0.4443063	0.09558811	4.99E-06
C	T	0.08	0.4689758	0.09646228	1.88E-06
T	C	0.08	0.4388834	0.09658662	7.92E-06
G	A	0.09	0.4482246	0.09599042	4.53E-06
G	T	0.08	0.4396418	0.09658147	7.65E-06
G	A	0.09	0.4620162	0.09597139	2.35E-06
GA	G	0.09	0.4620162	0.09597139	2.35E-06
A	C	0.08	0.4471711	0.09735993	6.38E-06
A	G	0.1	0.426433	0.08762316	1.84E-06
C	T	0.1	0.4232686	0.0893876	3.37E-06

G	A	0.02	-0.7360368	0.1611298	7.13E-06
A	T	0.33	-0.2680039	0.05686347	3.72E-06
G	A	0.02	-0.9236835	0.2036642	8.23E-06
C	G	0.01	-1.437736	0.2575099	5.54E-08
C	T	0.01	-1.437736	0.2575099	5.54E-08
C	T	0.01	-1.437736	0.2575099	5.54E-08
A	C	0.01	-1.019206	0.211594	2.32E-06
T	G	0.42	0.2465037	0.05271918	4.40E-06
T	A	0.42	0.245573	0.05280393	4.93E-06
G	A	0.42	0.2432039	0.05273841	5.87E-06
G	A	0.41	0.2441556	0.05299022	5.98E-06
T	C	0.41	0.2408196	0.05283154	7.44E-06
T	C	0.41	0.2410663	0.05287692	7.41E-06
T	G	0.45	0.2442454	0.05168952	3.52E-06
T	C	0.46	0.2583586	0.05146495	8.95E-07
T	G	0.06	-0.4834759	0.1072715	9.32E-06
G	T	0.06	-0.4887594	0.1066072	6.62E-06
T	A	0.08	-0.4571246	0.09479257	2.26E-06
C	T	0.08	-0.4419178	0.09520814	5.13E-06
C	T	0.08	-0.4489335	0.09559013	4.01E-06
C	T	0.08	-0.4419178	0.09520814	5.13E-06
C	T	0.08	-0.4590434	0.0944585	1.90E-06
A	G	0.08	-0.4517656	0.09483073	2.95E-06
T	C	0.08	-0.4590434	0.0944585	1.90E-06
C	T	0.08	-0.4590434	0.0944585	1.90E-06
T	C	0.08	-0.4590434	0.0944585	1.90E-06
T	C	0.08	-0.4590434	0.0944585	1.90E-06
CTG	C	0.02	-0.9177096	0.1808499	6.91E-07
G	A	0.01	-1.105851	0.2278076	1.95E-06
G	A	0.01	-1.105851	0.2278076	1.95E-06
G	C	0.01	-1.105851	0.2278076	1.95E-06
T	C	0.01	-0.9989655	0.2177518	6.53E-06
G	C	0.01	-1.183945	0.2479654	2.81E-06
A	G	0.01	-1.183945	0.2479654	2.81E-06
G	A	0.49	0.2239096	0.04820154	5.05E-06
A	G	0.43	0.2407011	0.05141433	4.29E-06
T	TATGTGTGTGG	0.03	-0.8282457	0.1612541	5.13E-07
A	G	0.05	-0.5674899	0.1231207	5.93E-06
T	TTGTGTG	0.28	-0.2804439	0.05823959	2.33E-06
G	GGTGTGTGT	0.04	-0.61551	0.1369309	9.82E-06
G	C	0.06	-0.541975	0.1164391	4.84E-06
A	AAAAT	0.01	-1.085584	0.2345529	5.45E-06
T	C	0.02	0.8528822	0.1841087	5.35E-06
G	A	0.01	-1.074688	0.2370314	8.28E-06
G	A	0.01	-0.9534893	0.208657	7.07E-06
G	A	0.01	-0.9998223	0.212255	3.77E-06
G	A	0.01	-0.9998223	0.212255	3.77E-06
C	CTT	0.06	-0.4769369	0.1018191	4.24E-06
C	CCACACACA	0.02	-0.8124364	0.1704278	2.91E-06
A	C	0.06	-0.5202543	0.1113348	4.46E-06

A	ATGTGTGTGTGTG	0.02	-0.7848579	0.1660962	3.52E-06
A	AGGCCGCGG	0.01	-0.5380487	0.1096468	1.52E-06
G	A	0.01	-0.5502849	0.0909074	4.62E-09
C	T	0.01	-0.4901686	0.1015748	2.22E-06
G	A	0.06	-0.2264616	0.04692641	2.22E-06
A	C	0.06	-0.2264616	0.04692641	2.22E-06
C	T	0.02	-0.3396952	0.073597	5.76E-06
GA	G	0.02	-0.3442204	0.07525808	6.94E-06
G	A	0.02	-0.4099469	0.08938147	6.56E-06
G	A	0.02	-0.3918818	0.0867622	8.92E-06
T	C	0.01	-0.4768897	0.09984549	2.79E-06
G	A	0.05	-0.2331103	0.04977186	4.25E-06
G	A	0.04	-0.2576204	0.05579449	5.72E-06
T	C	0.05	-0.2316666	0.04880778	3.19E-06
AAAAAGAAAAG	A	0.02	-0.3939041	0.0727983	1.33E-07
C	T	0.01	-0.4798213	0.09950863	2.26E-06
C	T	0.01	-0.4588347	0.1017936	9.29E-06
A	AT	0.01	-0.4777233	0.105927	9.19E-06
C	T	0.01	-0.4701367	0.1041018	8.95E-06
C	CTGTG	0.07	-0.2148548	0.0449468	2.74E-06
A	G	0.01	-0.5267054	0.1116239	3.63E-06
T	TC	0.01	-0.4942845	0.104044	3.13E-06
TG	T	0.01	-0.4942845	0.104044	3.13E-06
C	T	0.01	-0.4908478	0.1051774	4.58E-06
C	T	0.17	-0.1322571	0.02868453	5.89E-06
T	G	0.17	-0.1322571	0.02868453	5.89E-06
AG	A	0.15	-0.1352874	0.02966695	7.37E-06
A	G	0.18	-0.1344835	0.02790067	2.28E-06
G	C	0.01	-0.5238495	0.1128362	5.11E-06
C	T	0.03	-0.2806559	0.06216445	9.00E-06
G	A	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
A	C	0.01	-0.446172	0.09366925	2.96E-06
AATGGAAAC	A	0.01	-0.4608256	0.09779144	3.73E-06
G	A	0.01	-0.4608256	0.09779144	3.73E-06
C	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
T	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
C	G	0.01	-0.4608256	0.09779144	3.73E-06
A	C	0.01	-0.4608256	0.09779144	3.73E-06
A	C	0.01	-0.4608256	0.09779144	3.73E-06
TACAA	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06

C	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
T	G	0.01	-0.4608256	0.09779144	3.73E-06
T	G	0.01	-0.4608256	0.09779144	3.73E-06
G	A	0.01	-0.4608256	0.09779144	3.73E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
G	GC	0.01	-0.4815595	0.1038858	5.27E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
A	AT	0.01	-0.4608256	0.09779144	3.73E-06
A	T	0.01	-0.4608256	0.09779144	3.73E-06
A	C	0.01	-0.4608256	0.09779144	3.73E-06
C	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
A	G	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4994464	0.1004074	1.11E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
C	A	0.01	-0.4608256	0.09779144	3.73E-06
C	T	0.01	-0.4608256	0.09779144	3.73E-06
C	A	0.01	-0.4608256	0.09779144	3.73E-06
G	A	0.01	-0.4608256	0.09779144	3.73E-06
T	C	0.01	-0.4808505	0.1037624	5.30E-06
T	C	0.01	-0.4608256	0.09779144	3.73E-06
G	A	0.01	-0.4608256	0.09779144	3.73E-06
G	A	0.01	-0.4808505	0.1037624	5.30E-06
G	GT	0.01	-0.4808505	0.1037624	5.30E-06
G	A	0.01	-0.4808505	0.1037624	5.30E-06
A	C	0.01	-0.4808505	0.1037624	5.30E-06
G	A	0.01	-0.4808505	0.1037624	5.30E-06
C	T	0.01	-0.4808505	0.1037624	5.30E-06
A	C	0.01	-0.4808505	0.1037624	5.30E-06
G	A	0.01	-0.4808505	0.1037624	5.30E-06
A	G	0.01	-0.4808505	0.1037624	5.30E-06
C	A	0.01	-0.4808505	0.1037624	5.30E-06
A	G	0.01	-0.4808505	0.1037624	5.30E-06
T	C	0.01	-0.4808505	0.1037624	5.30E-06
A	T	0.01	-0.4808505	0.1037624	5.30E-06
G	C	0.01	-0.47308	0.1031258	6.53E-06
T	G	0.01	-0.47308	0.1031258	6.53E-06
A	T	0.01	-0.47308	0.1031258	6.53E-06
AGAC	A	0.01	-0.47308	0.1031258	6.53E-06
G	A	0.01	-0.47308	0.1031258	6.53E-06
G	A	0.01	-0.47308	0.1031258	6.53E-06

A	T	0.03	-0.2740147	0.06070274	9.03E-06
C	T	0.03	-0.3225102	0.06935205	4.93E-06
C	T	0.06	-0.215781	0.04770557	8.67E-06
G	A	0.07	-0.2089973	0.04448081	3.97E-06
G	A	0.07	-0.2068654	0.04291797	2.28E-06
C	T	0.03	-0.3020485	0.06533781	5.58E-06
G	A	0.03	-0.2881584	0.0623098	5.53E-06
G	A	0.03	-0.2910239	0.06478345	9.93E-06
C	A	0.01	-0.4831089	0.1061859	7.72E-06
A	G	0.01	-0.457326	0.1004156	7.56E-06
C	CT	0.05	-0.2553852	0.05169588	1.30E-06
G	A	0.24	-0.1273505	0.02659065	2.63E-06
CT	C	0.22	-0.1305527	0.02758228	3.39E-06
A	G	0.27	-0.1210775	0.02570224	3.76E-06
CTG	C	0.02	-0.3416623	0.07508011	7.69E-06
A	T	0.01	-0.4381675	0.09489531	5.72E-06
G	A	0.01	-0.4381675	0.09489531	5.72E-06
A	G	0.01	-0.5381593	0.1119583	2.42E-06
G	T	0.01	-0.4858164	0.1062675	7.00E-06
A	C	0.02	-0.3882037	0.07803748	1.11E-06
G	A	0.03	-0.300425	0.06352684	3.46E-06
A	T	0.06	-0.2204396	0.04731539	4.75E-06
C	T	0.05	-0.2654386	0.05278148	8.57E-07
G	C	0.06	-0.2279462	0.04821774	3.48E-06
C	G	0.06	-0.2315853	0.0477145	1.95E-06
G	A	0.06	-0.2333581	0.04726239	1.32E-06
G	A	0.01	-0.5971752	0.110377	1.33E-07
CA	C	0.07	-0.2042632	0.04461433	6.80E-06
A	G	0.01	-0.485143	0.1057117	6.48E-06
T	C	0.01	-0.4689305	0.1004208	4.52E-06
G	A	0.02	-0.3362543	0.07384705	7.59E-06
G	A	0.03	-0.3028298	0.06395099	3.36E-06
A	G	0.03	-0.2825189	0.06070977	4.86E-06
T	C	0.02	-0.3616472	0.07459315	2.00E-06
A	G	0.02	-0.380501	0.08181711	4.93E-06
T	C	0.02	-0.3826259	0.08499455	9.53E-06
T	C	0.01	-0.5374497	0.1100443	1.70E-06
G	C	0.01	-0.5119327	0.1070598	2.72E-06
C	G	0.43	-0.1083033	0.02228143	1.89E-06
C	T	0.05	-0.2296335	0.05058004	8.06E-06
G	A	0.05	-0.2166007	0.0479804	9.02E-06
C	T	0.05	-0.2199302	0.0487573	9.16E-06
C	A	0.05	-0.2199302	0.0487573	9.16E-06
G	A	0.07	-0.1982187	0.04392627	9.09E-06
G	C	0.07	-0.1982187	0.04392627	9.09E-06
A	G	0.11	-0.1671573	0.03572323	4.33E-06
T	C	0.11	-0.166264	0.03523162	3.62E-06
G	A	0.11	-0.166264	0.03523162	3.62E-06
G	A	0.01	-0.4843688	0.095325	6.68E-07
C	T	0.01	-0.509305	0.1001301	6.51E-07

C	A	0.1	-0.161041	0.03568057	9.05E-06
A	C	0.01	-0.5427503	0.1097265	1.27E-06
G	GCA	0.02	-0.3232603	0.07108133	7.78E-06
C	A	0.06	-0.2521031	0.04737462	2.07E-07
C	T	0.01	-0.4980969	0.1078359	5.67E-06
T	C	0.01	-0.4980969	0.1078359	5.67E-06
A	G	0.02	-0.4183447	0.08821094	3.25E-06
T	C	0.03	-0.3060164	0.06723345	7.66E-06
C	G	0.01	-0.5418554	0.1098595	1.35E-06
C	CTTTT	0.02	-0.3290201	0.07213703	7.34E-06
T	C	0.01	-0.5439805	0.1067036	6.16E-07
G	T	0.01	-0.4740305	0.1047244	8.55E-06
C	T	0.03	-0.3244578	0.06693065	2.01E-06
T	TGATAGATA	0.27	-0.1161593	0.02498316	4.95E-06
C	A	0.03	-0.2955979	0.06506245	7.94E-06
C	A	0.21	-0.1462642	0.02971133	1.41E-06
T	A	0.01	-0.5063572	0.1071448	3.51E-06
A	C	0.37	0.1042941	0.02300213	8.27E-06
C	G	0.02	-0.4043868	0.08782291	6.05E-06
CA	C	0.02	-0.4783886	0.08532575	4.90E-08
A	C	0.02	-0.4208218	0.09250069	7.73E-06
A	T	0.05	-0.2676193	0.05371443	1.07E-06
G	A	0.08	-0.1815455	0.03808458	2.91E-06
T	TACACAC	0.01	-0.4872458	0.09450433	4.66E-07
A	G	0.01	-0.48821	0.1030058	3.29E-06
C	CAT	0.01	-0.5098774	0.1091048	4.45E-06
T	G	0.02	-0.3238596	0.07136216	8.12E-06
G	T	0.33	-0.1035478	0.02305221	9.95E-06
3GGGTGGCCAACCTC	G	0.01	-0.4767709	0.1043935	7.15E-06
A	C	0.13	-0.1552429	0.03329834	4.68E-06
C	CGTGTGTGT	0.15	-0.1516673	0.03265101	5.05E-06
A	AT	0.06	-0.2116005	0.04649967	7.69E-06
G	A	0.01	-0.5013847	0.1096907	7.03E-06
C	T	0.01	-0.5159499	0.09843577	3.07E-07
C	A	0.01	-0.5785776	0.1049037	7.82E-08
G	T	0.11	-0.1962794	0.0389999	8.41E-07
A	AAT	0.11	-0.1891164	0.04156941	7.73E-06
G	A	0.09	-0.1982951	0.04374829	8.32E-06
T	C	0.04	-0.2906338	0.06252586	4.98E-06
A	T	0.1	0.2040185	0.0431453	3.46E-06
TAG	T	0.02	-0.4175831	0.08972253	4.85E-06
G	A	0.06	-0.2364689	0.05227354	8.65E-06
T	C	0.18	-0.1429982	0.03162532	8.73E-06
G	T	0.04	-0.3137947	0.06951873	9.04E-06
A	T	0.05	-0.254852	0.05532153	5.99E-06
A	G	0.06	-0.2491484	0.05277767	3.59E-06
C	T	0.05	-0.2532699	0.05431848	4.67E-06
C	T	0.07	-0.2278453	0.04619884	1.36E-06
A	G	0.02	-0.4834673	0.09486687	6.21E-07
G	C	0.02	-0.4705964	0.09862696	2.85E-06

T	G	0.01	-0.497563	0.1106233	9.69E-06
T	A	0.04	-0.3079248	0.06754076	7.40E-06
G	A	0.07	-0.2172268	0.04713725	5.95E-06
T	TTTCTC	0.02	-0.3889892	0.08553303	7.78E-06
T	C	0.02	-0.4040483	0.08832023	6.91E-06
T	G	0.02	-0.4318911	0.08815175	1.58E-06
T	A	0.02	-0.4667198	0.09598595	1.87E-06
T	G	0.19	-0.1441012	0.03158414	7.30E-06
T	G	0.19	-0.1433025	0.03162972	8.39E-06
A	C	0.19	-0.1459998	0.03149648	5.27E-06
G	A	0.19	-0.145427	0.03143127	5.48E-06
A	G	0.18	-0.1459255	0.03167621	5.99E-06
A	G	0.19	-0.1476476	0.03122152	3.46E-06
T	C	0.19	-0.1445411	0.03136725	5.96E-06
T	C	0.19	-0.1435612	0.0313229	6.65E-06
T	C	0.19	-0.1439346	0.03157005	7.40E-06
A	G	0.19	-0.1465188	0.03154916	5.07E-06
C	A	0.01	-0.5096308	0.1115176	7.06E-06
G	A	0.18	-0.1511024	0.03268105	5.56E-06
T	G	0.18	-0.1517358	0.03272503	5.24E-06
T	C	0.19	-0.150825	0.03259465	5.47E-06
T	C	0.04	-0.2841613	0.06302132	9.23E-06
A	C	0.29	0.1321797	0.02826645	4.39E-06
G	T	0.12	-0.178423	0.03894495	6.71E-06
C	T	0.03	0.3508682	0.07728551	8.06E-06
C	CTATCTATA	0.08	-0.217421	0.04559371	2.89E-06
C	G	0.02	-0.4858487	0.1031282	3.75E-06
C	T	0.32	0.1271924	0.02798177	7.86E-06
A	G	0.33	0.1324582	0.02781056	2.96E-06
G	T	0.33	0.1301775	0.02791102	4.64E-06
G	A	0.33	0.1295267	0.02805082	5.71E-06
GT	G	0.32	0.1264316	0.02814939	9.97E-06
G	A	0.33	0.1309591	0.02805914	4.57E-06
AG	A	0.33	0.1298972	0.02808936	5.54E-06
C	T	0.33	0.1295267	0.02805082	5.71E-06
T	C	0.03	-0.4004186	0.07857408	6.22E-07
C	G	0.03	-0.4004186	0.07857408	6.22E-07
A	G	0.06	-0.2392125	0.05276536	8.29E-06
C	G	0.03	-0.3306659	0.07263566	7.63E-06
G	A	0.05	-0.2660286	0.05872245	8.41E-06
A	G	0.25	0.2929101	0.0629721	5.01E-06
A	C	0.02	-1.052962	0.2159298	1.80E-06
G	A	0.01	-1.207733	0.2588328	4.69E-06
G	GTGGACTTGAACAGG	0.01	-1.21198	0.2603848	4.94E-06
A	G	0.09	-0.4535741	0.09525745	3.05E-06
T	C	0.09	-0.4401582	0.09514634	5.61E-06
G	GGA	0.09	-0.4401582	0.09514634	5.61E-06
T	A	0.09	-0.4401582	0.09514634	5.61E-06
G	A	0.09	-0.4401582	0.09514634	5.61E-06
G	A	0.11	-0.3971213	0.08587814	5.66E-06

A	G	0.09	-0.4489916	0.09547392	3.98E-06
T	C	0.09	-0.4477143	0.09575829	4.50E-06
A	G	0.09	-0.4401582	0.09514634	5.61E-06
A	C	0.11	-0.3898557	0.08629584	9.05E-06
T	G	0.11	-0.4069493	0.08619648	3.66E-06
C	T	0.25	-0.2753175	0.05991592	6.44E-06
T	A	0.02	-0.9063597	0.1959131	5.60E-06
T	C	0.02	-0.9063597	0.1959131	5.60E-06
G	A	0.03	-0.7701954	0.1697083	8.27E-06
C	T	0.01	-1.082029	0.2380161	7.99E-06
CGA	C	0.01	-1.239248	0.2597411	2.92E-06
T	C	0.06	-0.5682868	0.1205913	3.81E-06
T	C	0.05	-0.59726	0.1218606	1.61E-06
G	A	0.06	0.5255628	0.1148791	7.04E-06
G	C	0.02	-0.9369022	0.1900123	1.40E-06
A	AGTGTGT	0.01	-1.043843	0.2318074	9.65E-06
T	TTGATATACGATCC	0.02	-0.9785788	0.2135999	6.84E-06
A	AACACACAC	0.02	-0.8844154	0.1902176	5.05E-06
C	T	0.44	-0.2646133	0.05406656	1.66E-06
G	A	0.38	-0.2514355	0.05525607	7.84E-06
T	TA	0.44	-0.2578957	0.05375786	2.59E-06
A	T	0.38	-0.2575915	0.05514974	4.60E-06
C	A	0.01	-1.134646	0.2472896	6.63E-06
T	C	0.01	-1.134646	0.2472896	6.63E-06
G	A	0.01	-1.134646	0.2472896	6.63E-06
C	T	0.01	-1.134646	0.2472896	6.63E-06
C	T	0.01	-1.151408	0.2540218	8.47E-06
C	CGT	0.01	-1.132562	0.2459331	6.16E-06
T	TACACACAC	0.02	-0.9092435	0.1960856	5.35E-06
A	AACACACACACAC	0.03	-0.6838677	0.1485007	6.16E-06
G	T	0.24	0.3263794	0.06350584	5.21E-07
C	G	0.27	0.2934564	0.06464199	8.22E-06
C	T	0.03	-0.8390336	0.1752414	2.71E-06
G	A	0.01	-1.181215	0.2341912	8.22E-07
:GCACACACACACACA	T	0.03	-0.8156103	0.174708	4.64E-06
G	C	0.01	-1.254497	0.2614758	2.59E-06
A	G	0.01	-1.254497	0.2614758	2.59E-06
TTGTGTG	T	0.04	-0.6810341	0.1486	6.79E-06
G	T	0.01	-1.213127	0.254581	3.00E-06
T	C	0.01	-1.329958	0.2456288	1.35E-07
A	T	0.01	-1.160584	0.2555751	8.17E-06
C	T	0.01	-1.167103	0.2524104	5.67E-06
G	A	0.04	-0.6605751	0.1466565	9.60E-06
T	G	0.04	-0.6352977	0.1386765	6.85E-06
T	C	0.03	-0.7655445	0.1669998	6.76E-06
C	G	0.05	-0.5878263	0.1254913	4.33E-06
A	C	0.02	0.8361498	0.1751934	2.90E-06
A	G	0.02	0.831918	0.1776186	4.34E-06
T	C	0.01	-1.175501	0.2395207	1.56E-06
A	T	0.01	-1.094394	0.2282852	2.63E-06

A	G	0.02	-1.042118	0.2231537	4.61E-06
ATGTG	A	0.17	-0.3666223	0.07776934	3.78E-06
T	G	0.02	-1.047258	0.1975398	2.37E-07
CTGTGTGTG	C	0.01	-1.235275	0.259987	3.20E-06
C	T	0.01	-1.1763	0.2394863	1.53E-06
G	A	0.3	0.2612994	0.05773855	8.74E-06
AGTGTGTGTGT	A	0.02	-1.015787	0.215495	3.79E-06
G	A	0.18	0.3314359	0.06992422	3.37E-06
C	T	0.01	-1.143529	0.2470322	5.54E-06
G	A	0.01	-1.143529	0.2470322	5.54E-06
T	C	0.2	-0.2942641	0.06443429	7.29E-06
T	A	0.2	-0.2952279	0.06446554	6.89E-06
C	A	0.17	-0.3302775	0.07049048	4.30E-06
T	TA	0.02	-0.8020575	0.176957	8.48E-06
CGTGTGTGT	C	0.08	-0.4798579	0.1053755	7.73E-06
C	T	0.06	-0.5647318	0.1145827	1.41E-06
T	A	0.23	-0.3031763	0.0665077	7.57E-06
A	T	0.32	-0.2674423	0.05853241	7.22E-06
G	A	0.06	-0.5223638	0.1112896	4.06E-06
G	A	0.06	-0.5223638	0.1112896	4.06E-06
C	A	0.02	0.9510258	0.1695956	4.88E-08
C	T	0.16	-0.3275285	0.07003922	4.39E-06
C	A	0.12	-0.3638246	0.07649333	3.06E-06
T	C	0.12	-0.3638246	0.07649333	3.06E-06
A	C	0.12	-0.3638246	0.07649333	3.06E-06
G	T	0.12	-0.3549433	0.07641891	5.06E-06
C	T	0.12	-0.3549433	0.07641891	5.06E-06
C	T	0.12	-0.3549433	0.07641891	5.06E-06
A	C	0.12	-0.3473237	0.07708458	9.37E-06
C	T	0.04	-0.6560691	0.1410434	4.91E-06
C	G	0.04	-0.6661119	0.1435986	5.20E-06
A	G	0.04	-0.6499806	0.1391129	4.47E-06
C	T	0.01	-1.273176	0.2643322	2.32E-06
A	G	0.01	-1.273176	0.2643322	2.32E-06
C	T	0.01	-1.273176	0.2643322	2.32E-06
T	C	0.04	-0.622724	0.1369642	7.83E-06
T	A	0.04	-0.622724	0.1369642	7.83E-06
A	C	0.04	-0.622724	0.1369642	7.83E-06
C	T	0.02	-0.8749301	0.1847592	3.36E-06
T	C	0.02	-0.8749301	0.1847592	3.36E-06
AT	A	0.21	0.2890355	0.06372054	8.20E-06
AT	A	0.02	0.8358273	0.171384	1.75E-06
C	T	0.1	-0.3779036	0.0830226	7.65E-06
A	T	0.1	-0.3800872	0.08274071	6.35E-06
C	A	0.1	-0.3827126	0.08388677	7.31E-06
G	A	0.1	-0.3859799	0.08354855	5.66E-06
C	T	0.14	-0.3553753	0.07264009	1.63E-06
C	T	0.1	-0.3861389	0.08375408	5.90E-06
C	T	0.1	-0.3859799	0.08354855	5.66E-06
C	T	0.1	-0.3781852	0.08201394	5.88E-06

G	A	0.1	-0.3834386	0.08298911	5.64E-06
T	C	0.14	-0.3521044	0.07204813	1.67E-06
T	C	0.14	-0.3553753	0.07264009	1.63E-06
G	A	0.1	-0.3861389	0.08375408	5.90E-06
A	C	0.13	-0.3640625	0.07422306	1.54E-06
A	C	0.14	-0.3521044	0.07204813	1.67E-06
G	A	0.1	-0.40104	0.08385493	2.71E-06
G	A	0.14	-0.3528268	0.07313977	2.24E-06
C	G	0.14	-0.3465087	0.07323708	3.42E-06
T	A	0.1	-0.4140439	0.08498838	1.80E-06
A	G	0.1	-0.4099138	0.08479597	2.14E-06
A	G	0.14	-0.3599564	0.073263	1.48E-06
A	G	0.1	-0.4033226	0.08394895	2.45E-06
T	C	0.1	-0.4102238	0.08501391	2.23E-06
G	A	0.1	-0.4099138	0.08479597	2.14E-06
C	G	0.1	-0.3995715	0.08558807	4.55E-06
G	A	0.09	-0.3903927	0.08659775	9.27E-06
G	C	0.1	-0.4276335	0.08539198	9.48E-07
G	C	0.1	-0.407702	0.08469179	2.35E-06
T	C	0.1	-0.407702	0.08469179	2.35E-06
A	T	0.1	-0.4074093	0.08447654	2.25E-06
A	ACATTT	0.1	-0.4074093	0.08447654	2.25E-06
C	G	0.1	-0.4152065	0.0847856	1.60E-06
A	T	0.1	-0.4009202	0.08363917	2.58E-06
G	A	0.1	-0.4103631	0.08484292	2.11E-06
C	T	0.1	-0.4047987	0.08394464	2.26E-06
G	T	0.1	-0.4009202	0.08363917	2.58E-06
C	T	0.1	-0.4074093	0.08447654	2.25E-06
G	A	0.08	-0.434577	0.09107204	2.85E-06
C	G	0.1	-0.407702	0.08469179	2.35E-06
T	C	0.1	-0.4026629	0.08468686	3.08E-06
TGACAAA	T	0.1	-0.4039299	0.08550748	3.54E-06
AAAC	A	0.1	-0.4074093	0.08447654	2.25E-06
A	G	0.1	-0.4009202	0.08363917	2.58E-06
CACTT	C	0.1	-0.407702	0.08469179	2.35E-06
C	T	0.1	-0.4052485	0.08430491	2.42E-06
G	T	0.1	-0.4098266	0.08483246	2.17E-06
A	G	0.1	-0.407702	0.08469179	2.35E-06
A	C	0.14	-0.3556523	0.07251751	1.54E-06
C	T	0.09	-0.4420493	0.08807309	8.99E-07
A	G	0.1	-0.3937309	0.08476611	5.06E-06
G	C	0.09	-0.4459987	0.09025326	1.30E-06
G	C	0.1	-0.4074093	0.08447654	2.25E-06
T	C	0.1	-0.4074093	0.08447654	2.25E-06
A	G	0.1	-0.407702	0.08469179	2.35E-06
T	A	0.14	-0.3594083	0.07302237	1.42E-06
G	C	0.1	-0.4040696	0.08395745	2.36E-06
G	A	0.1	-0.40406	0.08490864	3.02E-06
T	A	0.1	-0.403783	0.08469178	2.90E-06
C	G	0.1	-0.4074093	0.08447654	2.25E-06

G	A	0.1	-0.4080295	0.08501183	2.51E-06
C	T	0.1	-0.4074093	0.08447654	2.25E-06
T	C	0.1	-0.4074093	0.08447654	2.25E-06
A	C	0.1	-0.3895897	0.0854047	7.32E-06
G	A	0.15	-0.3503098	0.07153246	1.59E-06
T	A	0.1	-0.3830894	0.08431765	7.94E-06
C	G	0.1	-0.3895897	0.0854047	7.32E-06
G	T	0.1	-0.4034652	0.08589432	4.00E-06
T	C	0.1	-0.3976878	0.08549209	4.90E-06
T	G	0.1	-0.3895897	0.0854047	7.32E-06
T	C	0.1	-0.3895897	0.0854047	7.32E-06
G	A	0.1	-0.3895897	0.0854047	7.32E-06
T	C	0.1	-0.3830894	0.08431765	7.94E-06
A	G	0.1	-0.3895897	0.0854047	7.32E-06
A	G	0.1	-0.3895897	0.0854047	7.32E-06
A	G	0.08	-0.4859449	0.09463771	5.16E-07
G	A	0.09	-0.4288007	0.08680729	1.31E-06
A	G	0.13	-0.3732387	0.07501146	1.10E-06
G	A	0.14	-0.348569	0.07381447	3.57E-06
C	T	0.1	-0.3895897	0.0854047	7.32E-06
G	A	0.1	-0.3895897	0.0854047	7.32E-06
A	G	0.1	-0.3895897	0.0854047	7.32E-06
A	G	0.14	-0.3448672	0.07329049	3.85E-06
T	C	0.14	-0.3481933	0.07392028	3.76E-06
A	G	0.14	-0.3448672	0.07329049	3.85E-06
C	T	0.1	-0.3893396	0.08517994	7.03E-06
C	T	0.1	-0.3893396	0.08517994	7.03E-06
G	C	0.14	-0.3609626	0.07393047	1.71E-06
A	G	0.14	-0.348569	0.07381447	3.57E-06
T	G	0.14	-0.348569	0.07381447	3.57E-06
C	T	0.1	-0.3895897	0.0854047	7.32E-06
C	T	0.14	-0.348569	0.07381447	3.57E-06
A	G	0.09	-0.415674	0.08676086	2.61E-06
T	C	0.14	-0.3466195	0.07336492	3.53E-06
T	C	0.1	-0.3895897	0.0854047	7.32E-06
T	C	0.1	-0.3970442	0.08563509	5.25E-06
C	T	0.1	-0.3906612	0.08625623	8.46E-06
G	T	0.1	-0.3904048	0.08602533	8.12E-06
T	A	0.1	-0.3904048	0.08602533	8.12E-06
C	T	0.1	-0.3904048	0.08602533	8.12E-06
T	C	0.14	-0.3448672	0.07329049	3.85E-06
T	C	0.1	-0.3895897	0.0854047	7.32E-06
T	G	0.14	-0.348569	0.07381447	3.57E-06
G	A	0.14	-0.348569	0.07381447	3.57E-06
A	G	0.14	-0.3387364	0.07343843	5.84E-06
T	TG	0.1	-0.3893396	0.08517994	7.03E-06
T	G	0.1	-0.3830894	0.08431765	7.94E-06
T	C	0.1	-0.3893396	0.08517994	7.03E-06
G	A	0.1	-0.3895897	0.0854047	7.32E-06
A	C	0.14	-0.3448672	0.07329049	3.85E-06

A	G	0.14	-0.3521488	0.07403458	3.05E-06
T	C	0.14	-0.3448672	0.07329049	3.85E-06
A	G	0.1	-0.3893396	0.08517994	7.03E-06
A	JACACACACACACACA	0.06	-0.4927997	0.1080912	7.41E-06
T	C	0.1	-0.3893396	0.08517994	7.03E-06
A	C	0.14	-0.344734	0.0738032	4.50E-06
C	T	0.1	-0.3840167	0.08513799	9.17E-06
G	A	0.1	-0.3906612	0.08625623	8.46E-06
A	G	0.14	-0.344734	0.0738032	4.50E-06
T	G	0.14	-0.3481933	0.07392028	3.76E-06
C	G	0.1	-0.3904048	0.08602533	8.12E-06
A	G	0.14	-0.3354876	0.07396958	8.22E-06
C	T	0.1	-0.3904048	0.08602533	8.12E-06
C	T	0.09	-0.3930015	0.08739358	9.74E-06
T	C	0.1	-0.3904048	0.08602533	8.12E-06
A	C	0.1	-0.3904048	0.08602533	8.12E-06
A	G	0.1	-0.3906612	0.08625623	8.46E-06
A	G	0.14	-0.3484821	0.07433793	4.17E-06
A	G	0.14	-0.3387235	0.0746185	8.08E-06
A	C	0.1	-0.3906612	0.08625623	8.46E-06
C	CT	0.14	-0.3575673	0.07506306	2.96E-06
G	A	0.1	-0.3904048	0.08602533	8.12E-06
A	C	0.14	-0.3484821	0.07433793	4.17E-06
T	C	0.14	-0.3480982	0.0744456	4.40E-06
G	A	0.1	-0.3906612	0.08625623	8.46E-06
T	C	0.1	-0.3906612	0.08625623	8.46E-06
A	G	0.1	-0.3843917	0.0854903	9.76E-06
A	G	0.14	-0.3354876	0.07396958	8.22E-06
T	C	0.1	-0.3840167	0.08513799	9.17E-06
T	G	0.1	-0.3906612	0.08625623	8.46E-06
G	A	0.1	-0.3906612	0.08625623	8.46E-06
G	C	0.14	-0.3436772	0.07458839	5.97E-06
A	C	0.1	-0.3904048	0.08602533	8.12E-06
G	A	0.1	-0.3906612	0.08625623	8.46E-06
A	G	0.1	-0.4162905	0.0863979	2.30E-06
C	G	0.1	-0.3904048	0.08602533	8.12E-06
A	C	0.1	-0.3904048	0.08602533	8.12E-06
T	C	0.14	-0.3387235	0.0746185	8.08E-06
G	A	0.1	-0.3906612	0.08625623	8.46E-06
A	AT	0.1	-0.411366	0.08724798	3.69E-06
T	C	0.1	-0.3895897	0.0854047	7.32E-06
A	C	0.14	-0.348569	0.07381447	3.57E-06
T	C	0.1	-0.3914533	0.08555361	6.89E-06
T	C	0.1	-0.3895897	0.0854047	7.32E-06
C	G	0.1	-0.3895897	0.0854047	7.32E-06
C	A	0.1	-0.3830894	0.08431765	7.94E-06
T	G	0.1	-0.3830894	0.08431765	7.94E-06
C	T	0.1	-0.3895897	0.0854047	7.32E-06
G	A	0.1	-0.3895897	0.0854047	7.32E-06
A	G	0.1	-0.3895897	0.0854047	7.32E-06

A	G	0.1	-0.3939839	0.08573684	6.31E-06
G	A	0.1	-0.3893396	0.08517994	7.03E-06
A	G	0.1	-0.3893396	0.08517994	7.03E-06
C	G	0.1	-0.3893396	0.08517994	7.03E-06
T	C	0.1	-0.3987077	0.08504752	4.16E-06
AAAC	A	0.1	-0.3989828	0.08526914	4.34E-06
G	A	0.1	-0.3924257	0.08566351	6.72E-06
C	T	0.1	-0.3900485	0.08495553	6.43E-06
C	G	0.1	-0.3895897	0.0854047	7.32E-06
G	T	0.1	-0.3921342	0.08477139	5.51E-06
T	A	0.1	-0.3895897	0.0854047	7.32E-06
A	ACC	0.1	-0.3895897	0.0854047	7.32E-06
G	A	0.1	-0.3895897	0.0854047	7.32E-06
G	T	0.09	-0.4024669	0.08639377	4.76E-06
G	T	0.1	-0.3830894	0.08431765	7.94E-06
C	T	0.09	-0.3955868	0.087559	8.88E-06
A	C	0.1	-0.3891359	0.085989	8.59E-06
G	T	0.03	-0.7133848	0.154479	5.70E-06
C	T	0.02	-0.9868579	0.2023037	1.74E-06
C	T	0.26	-0.2637044	0.05818646	8.35E-06
A	G	0.23	-0.2979448	0.06088715	1.62E-06
C	CCTCTCTCT	0.02	0.8965144	0.1770323	7.25E-07
G	A	0.02	-0.9551896	0.2025476	3.67E-06
G	T	0.08	-0.4353276	0.09651324	9.17E-06
C	T	0.01	-1.165512	0.2519525	5.50E-06
T	TG	0.01	-1.165512	0.2519525	5.50E-06
C	T	0.01	-1.165512	0.2519525	5.50E-06
G	A	0.01	-1.165512	0.2519525	5.50E-06
TTATG	T	0.12	-0.3769825	0.08068619	4.47E-06
T	C	0.03	0.6985651	0.149365	4.38E-06
T	TTTTCTTTC	0.07	0.4481986	0.09795836	6.89E-06
T	C	0.23	-0.2848158	0.06316423	9.23E-06
C	A	0.24	0.2826965	0.0624675	8.59E-06
A	T	0.11	-0.3874429	0.08045591	2.33E-06
C	T	0.13	-0.3567354	0.07695889	5.28E-06
A	G	0.13	-0.3499893	0.07601864	6.07E-06
T	C	0.13	-0.3444294	0.07595592	8.25E-06
C	T	0.13	-0.3479167	0.07615756	7.11E-06
T	C	0.13	-0.3479167	0.07615756	7.11E-06
G	A	0.13	-0.3479167	0.07615756	7.11E-06
GTATATGTC	G	0.13	-0.3502214	0.07760514	9.08E-06
G	C	0.13	-0.3479167	0.07615756	7.11E-06
A	C	0.13	-0.3479167	0.07615756	7.11E-06
A	G	0.13	-0.3441795	0.07606514	8.62E-06
G	A	0.13	-0.3546778	0.07623338	4.89E-06
C	G	0.13	-0.3479167	0.07615756	7.11E-06
G	A	0.13	-0.3479167	0.07615756	7.11E-06
C	T	0.13	-0.3479167	0.07615756	7.11E-06
T	C	0.13	-0.3479167	0.07615756	7.11E-06
G	A	0.13	-0.3474211	0.07628783	7.57E-06

G	C	0.13	-0.3479167	0.07615756	7.11E-06
G	T	0.13	-0.3479167	0.07615756	7.11E-06
C	T	0.08	-0.4271279	0.09450084	8.81E-06
C	T	0.27	0.2670262	0.05935161	9.65E-06
G	A	0.04	-0.6492951	0.1391317	4.58E-06
G	A	0.04	-0.6321902	0.1403895	9.48E-06
T	C	0.02	-0.8685268	0.1712659	7.01E-07
C	G	0.04	-0.6492951	0.1391317	4.58E-06
A	G	0.01	-1.090511	0.2224899	1.56E-06
TC	T	0.04	-0.6816442	0.1403569	1.93E-06
A	AT	0.02	-0.940553	0.1874657	9.07E-07
C	A	0.02	-0.8000983	0.1689807	3.37E-06
CA	C	0.37	0.247816	0.0542177	7.04E-06
G	C	0.42	0.2452477	0.05301132	5.49E-06
C	T	0.07	-0.4733119	0.1036643	7.19E-06
G	A	0.06	-0.4957778	0.107283	5.62E-06
G	GGTGTGTGT	0.04	-0.6328297	0.1330508	3.06E-06
G	A	0.28	-0.2584858	0.05737195	9.38E-06
A	G	0.02	-0.8686825	0.1867365	4.90E-06
G	A	0.03	0.7595694	0.1683788	9.15E-06
C	T	0.03	0.7595694	0.1683788	9.15E-06
G	A	0.03	0.7595694	0.1683788	9.15E-06
T	C	0.03	0.7595694	0.1683788	9.15E-06
A	G	0.21	-0.2995438	0.06521466	6.37E-06
G	A	0.21	-0.2984443	0.06520076	6.83E-06
A	T	0.21	-0.2984443	0.06520076	6.83E-06
C	T	0.21	-0.2984443	0.06520076	6.83E-06
T	C	0.21	-0.2984443	0.06520076	6.83E-06
G	A	0.21	-0.2984443	0.06520076	6.83E-06
C	T	0.21	-0.2984443	0.06520076	6.83E-06
T	C	0.21	-0.2990936	0.06523181	6.60E-06
C	T	0.21	-0.2984443	0.06520076	6.83E-06
G	T	0.21	-0.2984443	0.06520076	6.83E-06
C	T	0.21	-0.2984443	0.06520076	6.83E-06
T	C	0.21	-0.2968968	0.06517696	7.53E-06
C	T	0.21	-0.2984443	0.06520076	6.83E-06
T	C	0.24	0.2792318	0.06024453	5.29E-06
G	A	0.35	-0.2473222	0.05505657	9.94E-06
G	C	0.36	-0.2628685	0.05454638	2.29E-06
T	A	0.35	-0.250915	0.05490341	7.06E-06
C	T	0.35	-0.2526213	0.05512272	6.67E-06
C	G	0.35	-0.2528283	0.0551717	6.68E-06
G	A	0.35	-0.2504501	0.05532621	8.54E-06
TA	T	0.03	-0.661235	0.1395658	3.32E-06
AT	A	0.21	0.3007897	0.06440969	4.52E-06
A	G	0.19	0.3095411	0.06518014	3.16E-06
T	C	0.02	0.9111978	0.1891487	2.31E-06
C	T	0.26	0.2646932	0.05857756	8.85E-06
AC	A	0.26	0.2741513	0.05879186	4.66E-06
T	C	0.26	0.2722168	0.05876598	5.35E-06

G	T	0.26	0.2710024	0.05852715	5.40E-06
T	G	0.26	0.2710024	0.05852715	5.40E-06
C	G	0.26	0.2737658	0.0585171	4.35E-06
TA	T	0.26	0.2700132	0.05879133	6.38E-06
ACT	A	0.25	0.2688644	0.05927968	8.22E-06
A	G	0.26	0.2681935	0.05877677	7.28E-06
A	T	0.26	0.2757495	0.05849926	3.71E-06
T	C	0.26	0.2760421	0.0587324	3.95E-06
G	A	0.26	0.2742835	0.05875507	4.55E-06
C	A	0.07	-0.4969781	0.1001437	1.17E-06
G	T	0.01	1.067745	0.2265875	3.73E-06
TAC	T	0.02	-0.9957723	0.178485	5.65E-08
TAG	T	0.1	-0.4368694	0.09047484	2.19E-06
CA	C	0.29	-0.2404866	0.05113802	3.90E-06
A	G	0.36	-0.2486227	0.05290391	3.95E-06
C	T	0.39	0.2755285	0.05450733	7.58E-07
A	G	0.49	0.2407326	0.05269174	7.10E-06
G	A	0.04	-0.6749365	0.1422631	3.23E-06
G	A	0.01	-1.205681	0.2562958	3.87E-06
C	A	0.09	0.2077653	0.04400501	3.58E-06
G	A	0.02	0.4224696	0.08680606	1.84E-06
A	G	0.34	-0.1187143	0.02631136	9.11E-06
G	GA	0.12	0.1799552	0.0374432	2.43E-06
T	C	0.03	0.3335594	0.07389782	9.04E-06
G	C	0.32	0.1339692	0.02698502	1.16E-06
A	T	0.33	0.1310528	0.02704572	2.03E-06
G	T	0.03	0.3734537	0.0705486	2.38E-07
G	A	0.22	0.1455119	0.03036927	2.60E-06
G	GA	0.02	0.5466048	0.09992899	9.84E-08
C	T	0.01	0.5527006	0.1197702	5.79E-06
ACCCACAAGAACAC	A	0.02	0.4416115	0.09476871	4.73E-06
C	A	0.04	0.2933003	0.06262907	4.26E-06
GT	G	0.28	-0.1277418	0.02820117	8.43E-06
C	G	0.06	-0.2296586	0.05104905	9.65E-06
T	C	0.49	-0.1169584	0.02540393	6.07E-06
CGCCACA	C	0.01	0.4797071	0.1056233	8.00E-06
T	C	0.04	0.3015523	0.06560318	6.27E-06
CTA	C	0.03	0.3180896	0.06701326	3.19E-06
T	A	0.28	-0.1278627	0.02520079	6.92E-07
A	T	0.2	0.1526204	0.03305822	5.73E-06
G	A	0.01	0.5006034	0.1103836	8.23E-06
T	C	0.42	-0.1141547	0.02484537	6.33E-06
G	GTCC	0.42	-0.1115653	0.02480384	9.69E-06
C	T	0.42	-0.1125292	0.02482231	8.29E-06
T	A	0.42	-0.1127425	0.02481652	7.95E-06
G	A	0.42	-0.1127425	0.02481652	7.95E-06
T	C	0.42	-0.1148091	0.0247906	5.37E-06
A	G	0.42	-0.1127425	0.02481652	7.95E-06
CAT	C	0.42	-0.1133165	0.02490171	7.69E-06
C	CA	0.17	0.1554982	0.03350599	5.15E-06

C	A	0.02	0.4076846	0.08896693	6.68E-06
T	C	0.06	0.2334371	0.05116841	7.31E-06
C	T	0.06	0.2334371	0.05116841	7.31E-06
A	ATAAGTAAG	0.08	0.21401	0.04538411	3.68E-06
C	CT	0.03	0.3655564	0.07882635	5.22E-06
T	\AACTTTACAAGAAAC	0.02	0.3873696	0.07983513	1.97E-06
A	G	0.02	0.3510898	0.07699374	7.38E-06
G	A	0.04	0.334278	0.06039406	7.08E-08
C	T	0.04	0.2902571	0.06287387	5.74E-06
T	TACAC	0.02	0.400835	0.08253943	1.93E-06
C	G	0.09	-0.1989245	0.04373546	7.76E-06
C	G	0.41	-0.1217604	0.02628775	5.36E-06
T	C	0.38	-0.1188555	0.02635684	9.21E-06
T	C	0.38	-0.1202057	0.02636068	7.37E-06
C	T	0.02	0.4195384	0.08927996	3.96E-06
A	G	0.02	0.4195384	0.08927996	3.96E-06
C	T	0.03	0.3195069	0.06811489	4.11E-06
G	C	0.03	0.3140551	0.06885176	7.33E-06
G	GTCCTTTCCTTCCTT	0.04	0.3053139	0.06796288	9.93E-06
C	T	0.06	0.2470593	0.05250323	3.84E-06
C	T	0.06	0.2470593	0.05250323	3.84E-06
T	C	0.07	0.2364046	0.05115584	5.62E-06
C	G	0.07	0.2318594	0.05094644	7.67E-06
A	G	0.07	0.2128459	0.04590101	5.23E-06
G	T	0.07	0.2134976	0.04750928	9.87E-06
A	ATAT	0.02	0.4574113	0.09986997	6.75E-06
C	T	0.05	0.287927	0.06045978	2.97E-06
C	G	0.06	0.2640427	0.05297275	1.06E-06
T	C	0.07	0.2540469	0.05026177	7.59E-07
A	AT	0.06	0.2448168	0.05122683	2.75E-06
G	A	0.07	0.2387936	0.05024086	3.10E-06
A	G	0.09	0.2109171	0.04397377	2.54E-06
G	A	0.06	0.2562884	0.05110998	9.18E-07
T	C	0.07	0.2464413	0.0495639	1.12E-06
C	G	0.07	0.2406801	0.04942981	1.82E-06
T	C	0.08	0.2319944	0.04608424	8.36E-07
T	G	0.28	0.1246416	0.02711835	6.28E-06
G	C	0.19	0.1420339	0.03081824	5.94E-06
AAAAG	A	0.07	0.2124244	0.04717119	9.47E-06
A	G	0.04	0.3013549	0.06474026	4.83E-06
A	T	0.04	0.3147435	0.06519611	2.20E-06
G	A	0.01	0.5484988	0.120613	7.79E-06
C	A	0.28	0.1243406	0.02763332	9.62E-06
C	T	0.24	0.1462975	0.02946562	1.16E-06
A	G	0.24	0.1462975	0.02946562	1.16E-06
C	T	0.24	0.1434704	0.0294795	1.84E-06
A	G	0.24	0.1407789	0.02950009	2.84E-06
T	G	0.24	0.1444727	0.02947629	1.56E-06
C	T	0.24	0.1462975	0.02946562	1.16E-06
T	TG	0.29	0.1328947	0.02719487	1.67E-06

C	A	0.29	0.1304395	0.02722245	2.60E-06
T	C	0.29	0.1267985	0.0273244	5.15E-06
A	G	0.29	0.1267985	0.0273244	5.15E-06
A	G	0.29	0.1336262	0.02720073	1.48E-06
A	G	0.24	0.1376076	0.02948906	4.59E-06
A	G	0.07	0.2301302	0.04756228	2.09E-06
G	C	0.32	0.1216654	0.02692988	8.88E-06
G	T	0.32	0.1216654	0.02692988	8.88E-06
A	T	0.32	0.1220413	0.02690792	8.22E-06
A	G	0.32	0.1245659	0.02694285	5.57E-06
T	C	0.32	0.1216654	0.02692988	8.88E-06
T	C	0.32	0.1217705	0.02689981	8.54E-06
G	A	0.32	0.1315799	0.02669644	1.38E-06
T	C	0.32	0.1331909	0.02669249	1.03E-06
G	A	0.32	0.1302476	0.02676393	1.84E-06
T	C	0.32	0.1210029	0.02687369	9.49E-06
G	A	0.32	0.1262094	0.02681595	3.83E-06
T	C	0.31	0.1253857	0.02693664	4.83E-06
G	A	0.32	0.1214576	0.02690099	8.99E-06
G	A	0.32	0.1247991	0.02696661	5.45E-06
A	C	0.32	0.1247991	0.02696661	5.45E-06
T	G	0.32	0.1233368	0.02699109	7.07E-06
G	T	0.32	0.1216654	0.02692988	8.88E-06
T	C	0.31	0.1273684	0.02700362	3.66E-06
T	C	0.32	0.1247991	0.02696661	5.45E-06
A	G	0.32	0.1220208	0.02686116	7.96E-06
T	C	0.32	0.12391	0.02689647	5.99E-06
T	G	0.32	0.1249147	0.02688788	5.03E-06
GA	G	0.32	0.1270839	0.02678735	3.23E-06
A	C	0.31	0.1267452	0.02693195	3.84E-06
G	T	0.32	0.1238601	0.02689967	6.05E-06
G	A	0.31	0.1278245	0.02692869	3.19E-06
T	C	0.31	0.129399	0.02683116	2.25E-06
A	G	0.32	0.1244565	0.02686254	5.33E-06
T	C	0.31	0.1253453	0.02681692	4.43E-06
T	G	0.32	0.1244081	0.02685561	5.34E-06
C	G	0.31	0.1261521	0.02692475	4.21E-06
A	G	0.31	0.1278245	0.02692869	3.19E-06
T	A	0.32	0.1244176	0.02687819	5.43E-06
C	T	0.32	0.1223422	0.02681063	7.27E-06
A	G	0.32	0.1244565	0.02686254	5.33E-06
C	A	0.31	0.1330225	0.02691136	1.29E-06
CAA	C	0.32	0.1270839	0.02678735	3.23E-06
G	A	0.32	0.1275025	0.02620069	1.84E-06
A	G	0.32	0.1209492	0.02665306	8.13E-06
G	A	0.32	0.1222443	0.02650968	5.87E-06
C	CA	0.32	0.1225488	0.02649728	5.53E-06
G	C	0.31	0.1299729	0.02694007	2.23E-06
A	G	0.31	0.1254427	0.02681111	4.34E-06
G	A	0.31	0.1265838	0.02687398	3.76E-06

G	T	0.31	0.1265465	0.02691311	3.91E-06
G	A	0.31	0.1291286	0.02696679	2.64E-06
G	A	0.31	0.123186	0.02686959	6.61E-06
T	G	0.32	0.126519	0.02648939	2.79E-06
A	G	0.32	0.1279543	0.02658791	2.36E-06
G	A	0.31	0.1274127	0.02690475	3.35E-06
C	T	0.31	0.1291286	0.02696679	2.64E-06
A	G	0.31	0.1272579	0.02688965	3.40E-06
G	A	0.31	0.1299729	0.02694007	2.23E-06
T	A	0.32	0.1207338	0.02682751	9.59E-06
C	T	0.31	0.1227609	0.02678024	6.63E-06
G	C	0.31	0.1260025	0.02690405	4.25E-06
A	G	0.25	0.1338592	0.0288537	5.18E-06
T	G	0.32	0.1298807	0.0267653	1.96E-06
C	A	0.47	0.1156672	0.02510121	5.96E-06
G	A	0.31	0.1291286	0.02696679	2.64E-06
T	A	0.32	0.1212721	0.02679271	8.56E-06
T	A	0.32	0.1212721	0.02679271	8.56E-06
C	G	0.31	0.1240526	0.02683863	5.59E-06
C	T	0.31	0.1265838	0.02687398	3.76E-06
G	A	0.32	0.1215446	0.02681082	8.29E-06
T	C	0.31	0.1274127	0.02690475	3.35E-06
A	G	0.31	0.1271145	0.02690546	3.53E-06
C	T	0.31	0.1291286	0.02696679	2.64E-06
T	C	0.31	0.1266894	0.02707426	4.33E-06
TA	T	0.35	0.118685	0.02525798	3.96E-06
A	C	0.31	0.129989	0.02680352	1.99E-06
C	T	0.32	0.120943	0.02680155	9.09E-06
C	T	0.31	0.1225895	0.02686131	7.25E-06
T	G	0.32	0.1213854	0.02643199	6.39E-06
T	C	0.32	0.1234827	0.0267932	5.94E-06
G	A	0.32	0.1299153	0.02660896	1.71E-06
T	C	0.32	0.1196856	0.02633803	7.91E-06
A	G	0.32	0.125579	0.02671107	3.92E-06
C	A	0.32	0.1248975	0.02669634	4.35E-06
T	C	0.32	0.126381	0.02654147	2.98E-06
A	G	0.32	0.1184429	0.02633341	9.69E-06
A	G	0.33	0.1277146	0.02613375	1.67E-06
C	A	0.35	0.1303395	0.02510574	3.92E-07
A	G	0.33	0.1260404	0.02592539	1.88E-06
G	GAAAC	0.32	0.121772	0.02654962	6.56E-06
A	G	0.32	0.1252736	0.02687624	4.70E-06
G	C	0.32	0.1278902	0.02677788	2.79E-06
G	A	0.25	0.135562	0.02862978	3.36E-06
G	A	0.32	0.1268467	0.02678873	3.36E-06
T	C	0.32	0.1288514	0.02685113	2.51E-06
G	C	0.32	0.127659	0.02676016	2.86E-06
A	T	0.32	0.1253902	0.02658585	3.66E-06
C	T	0.32	0.1243709	0.02671523	4.82E-06
T	C	0.33	0.1163095	0.0254899	7.28E-06

G	C	0.32	0.1268467	0.02678873	3.36E-06
A	G	0.32	0.125579	0.02671107	3.92E-06
T	C	0.32	0.1283068	0.02676643	2.57E-06
G	A	0.32	0.1283563	0.02661809	2.26E-06
G	C	0.32	0.1226728	0.02665342	6.11E-06
G	C	0.32	0.1249663	0.02670836	4.34E-06
C	T	0.31	0.1298434	0.02682423	2.07E-06
G	A	0.32	0.1283068	0.02676643	2.57E-06
G	A	0.31	0.1308345	0.02679984	1.71E-06
T	C	0.32	0.13191	0.02666852	1.27E-06
G	C	0.32	0.1283068	0.02676643	2.57E-06
A	ATCC	0.32	0.1254414	0.0264268	3.19E-06
A	C	0.32	0.1261183	0.0266957	3.53E-06
T	C	0.32	0.1266555	0.02670554	3.25E-06
T	C	0.32	0.1339637	0.02672436	9.25E-07
G	A	0.31	0.1300053	0.02682683	2.02E-06
T	C	0.31	0.1275641	0.0269298	3.34E-06
G	A	0.32	0.1224952	0.02668474	6.44E-06
T	C	0.31	0.1308345	0.02679984	1.71E-06
C	G	0.31	0.1324903	0.02670982	1.19E-06
G	C	0.32	0.1280632	0.02674248	2.63E-06
A	G	0.31	0.1308345	0.02679984	1.71E-06
T	C	0.32	0.1251894	0.02673027	4.25E-06
T	C	0.32	0.1254355	0.02667543	3.90E-06
A	C	0.33	0.1221981	0.02602528	4.03E-06
G	A	0.32	0.1186793	0.02622931	8.62E-06
C	T	0.32	0.1281149	0.0265674	2.26E-06
C	T	0.32	0.1281149	0.0265674	2.26E-06
A	G	0.32	0.1249341	0.02658297	3.95E-06
ATATG	A	0.32	0.1241085	0.02636038	3.80E-06
T	A	0.32	0.1251894	0.02673027	4.25E-06
G	T	0.32	0.1313128	0.02669017	1.43E-06
A	G	0.32	0.1239696	0.02652486	4.44E-06
C	T	0.32	0.1291434	0.02663045	1.99E-06
C	T	0.32	0.125551	0.02655398	3.47E-06
C	T	0.32	0.1308095	0.02668779	1.56E-06
GTC	G	0.32	0.1250664	0.02657676	3.84E-06
CTGAG	C	0.32	0.1220119	0.02654144	6.26E-06
T	A	0.32	0.1281012	0.02636814	1.91E-06
T	C	0.33	0.1303353	0.02577281	7.49E-07
C	T	0.31	0.1302021	0.02683228	1.96E-06
G	A	0.32	0.1339637	0.02672436	9.25E-07
T	C	0.32	0.1311499	0.02668054	1.46E-06
G	T	0.32	0.131497	0.02665289	1.34E-06
G	A	0.32	0.1339637	0.02672436	9.25E-07
T	A	0.32	0.1258126	0.02670791	3.76E-06
G	T	0.31	0.1275641	0.0269298	3.34E-06
T	C	0.24	0.1330619	0.02908456	6.90E-06
A	G	0.31	0.1325495	0.02678659	1.25E-06
T	C	0.31	0.1315162	0.02669169	1.39E-06

G	GT	0.32	0.1221463	0.02643694	5.64E-06
T	G	0.32	0.1244397	0.0266302	4.46E-06
G	A	0.3	0.1245638	0.02720655	6.80E-06
T	G	0.3	0.1291803	0.02733405	3.51E-06
T	C	0.3	0.1291803	0.02733405	3.51E-06
T	G	0.3	0.1344326	0.02742262	1.56E-06
C	CACAA	0.31	0.1318886	0.02696574	1.64E-06
G	A	0.3	0.134171	0.02703189	1.17E-06
A	T	0.3	0.1347588	0.0272002	1.22E-06
G	T	0.3	0.1247584	0.02721424	6.62E-06
G	GA	0.3	0.1248129	0.02704543	5.78E-06
A	G	0.3	0.131308	0.02740326	2.60E-06
C	T	0.3	0.1326487	0.02722972	1.80E-06
G	A	0.3	0.131308	0.02740326	2.60E-06
C	T	0.3	0.1289732	0.02730635	3.55E-06
T	G	0.3	0.1225901	0.02723472	9.55E-06
T	C	0.3	0.1334202	0.02735449	1.75E-06
GAAGA	G	0.31	0.1304025	0.02682161	1.88E-06
T	C	0.3	0.1307248	0.02731331	2.66E-06
AATTCCAT	A	0.07	0.2301302	0.04756228	2.09E-06
G	C	0.26	0.1265683	0.02807244	9.25E-06
A	G	0.31	0.1227727	0.02689244	7.20E-06
C	G	0.3	0.1307248	0.02731331	2.66E-06
T	G	0.25	0.1313811	0.02847441	5.80E-06
T	C	0.3	0.1296831	0.02736453	3.30E-06
T	C	0.25	0.1402325	0.02872017	1.71E-06
T	C	0.25	0.1401727	0.02870916	1.71E-06
T	TAGAA	0.31	0.1298928	0.02711351	2.61E-06
C	A	0.25	0.1378727	0.02872824	2.51E-06
G	GT	0.31	0.1227658	0.02658706	5.71E-06
T	A	0.29	0.1269241	0.02789111	7.68E-06
C	G	0.26	0.136228	0.02907311	4.21E-06
T	C	0.02	0.4616636	0.1017529	8.16E-06
C	T	0.02	0.4827546	0.1008491	2.65E-06
C	T	0.01	0.612789	0.1250503	1.57E-06
G	T	0.01	0.612789	0.1250503	1.57E-06
C	CAG	0.01	0.5138152	0.1097624	4.29E-06
C	A	0.14	0.1586055	0.03519822	9.35E-06
GGGTCT	G	0.03	0.3411029	0.07236271	3.70E-06
C	T	0.37	0.1230067	0.02629333	4.35E-06
G	A	0.21	0.1454932	0.03137151	5.22E-06
G	T	0.04	0.301467	0.06705022	9.77E-06
A	G	0.41	-0.1181428	0.0252139	4.21E-06
C	T	0.41	-0.117875	0.02525383	4.56E-06
TG	T	0.41	-0.1143596	0.02523648	8.36E-06
C	G	0.41	-0.125812	0.02567594	1.57E-06
A	C	0.22	0.1469889	0.03152145	4.66E-06
G	C	0.22	0.1468044	0.03164233	5.18E-06
G	A	0.14	-0.1714678	0.03591529	2.81E-06
A	G	0.05	0.2935123	0.06119297	2.54E-06

GTC	G	0.04	0.3037727	0.0672759	8.98E-06
A	ATG	0.04	0.3357205	0.07140953	3.92E-06
G	A	0.45	0.1240119	0.02669763	5.05E-06
A	G	0.45	0.1250755	0.0266317	4.01E-06
G	A	0.42	0.125233	0.02679802	4.45E-06
C	T	0.39	0.1233583	0.02659148	5.19E-06
C	A	0.42	0.1286742	0.02660568	2.11E-06
C	T	0.42	0.125233	0.02679802	4.45E-06
A	T	0.42	0.1282434	0.02680341	2.68E-06
C	A	0.44	0.1256407	0.02670865	3.87E-06
C	G	0.44	0.1223684	0.02683658	7.38E-06
A	G	0.42	0.121011	0.02677524	8.81E-06
T	C	0.32	0.1288145	0.028005	6.18E-06
G	A	0.32	0.1316566	0.02809602	4.20E-06
T	C	0.3	-0.1266825	0.02777774	7.36E-06
G	T	0.29	-0.1319234	0.02782711	3.28E-06
A	T	0.03	0.3361453	0.07480208	9.87E-06
CA	C	0.07	0.2443803	0.0542356	9.36E-06
A	C	0.12	0.1872203	0.0413703	8.59E-06
G	A	0.13	0.1792113	0.03899056	6.28E-06
G	A	0.21	-0.1440284	0.03166518	7.76E-06
G	A	0.08	-0.2130176	0.04714374	8.85E-06
T	C	0.08	-0.2212462	0.0488107	8.32E-06
A	C	0.08	-0.2309918	0.04876444	3.34E-06
A	T	0.08	-0.2245753	0.04863792	5.72E-06
A	G	0.06	-0.2643871	0.05439899	1.89E-06
CT	C	0.08	-0.2280354	0.04905439	4.97E-06
T	TAC	0.14	-0.1877085	0.04089813	6.47E-06
A	T	0.28	0.1262204	0.02727365	5.45E-06
A	AT	0.07	-0.2764143	0.05182056	1.94E-07
A	G	0.07	-0.2764143	0.05182056	1.94E-07
G	A	0.07	0.2294366	0.05073514	8.71E-06
C	T	0.23	0.1482222	0.03167207	4.32E-06
C	T	0.22	0.1454883	0.03181369	6.96E-06
T	G	0.22	0.1436122	0.03180544	8.98E-06
C	T	0.22	0.1459069	0.03181609	6.57E-06
A	AT	0.22	0.144184	0.032085	9.86E-06
G	GA	0.22	0.148098	0.03204597	5.61E-06
A	G	0.22	0.1433527	0.0318531	9.58E-06
A	C	0.22	0.1434686	0.03187184	9.54E-06
C	T	0.23	0.1465588	0.03170604	5.59E-06
TCA	T	0.22	0.1498593	0.03201799	4.31E-06
G	A	0.22	0.1438065	0.03184759	8.97E-06
A	G	0.23	0.1520022	0.03178471	2.71E-06
A	G	0.23	0.146126	0.03167643	5.83E-06
GA	G	0.22	0.1508265	0.0321975	4.23E-06
C	T	0.23	0.1482222	0.03167207	4.32E-06
T	C	0.22	0.1454883	0.03181369	6.96E-06
G	A	0.22	0.1454883	0.03181369	6.96E-06
T	A	0.22	0.1469432	0.03180091	5.63E-06

T	C	0.22	0.1452656	0.03183509	7.28E-06
A	G	0.23	0.1474718	0.03180679	5.25E-06
A	G	0.22	0.1451993	0.03181583	7.25E-06
GA	G	0.23	0.1436926	0.03164884	8.05E-06
A	G	0.24	0.1432043	0.03141524	7.43E-06
C	T	0.24	0.1414461	0.03142593	9.56E-06
AG	A	0.23	0.1464469	0.03151321	5.00E-06
CAT	C	0.23	0.1456723	0.03164398	6.08E-06
A	AT	0.23	0.1436926	0.03164884	8.05E-06
T	C	0.24	0.1410182	0.03140127	9.99E-06
A	T	0.22	0.1454883	0.03181369	6.96E-06
AAT	A	0.22	0.1489903	0.0319256	4.58E-06
T	A	0.22	0.1435044	0.03183765	9.30E-06
C	T	0.23	0.1482222	0.03167207	4.32E-06
C	G	0.23	0.1482222	0.03167207	4.32E-06
T	C	0.23	0.1482222	0.03167207	4.32E-06
G	C	0.23	0.1482222	0.03167207	4.32E-06
C	T	0.23	0.1459875	0.03168436	5.97E-06
T	A	0.23	0.1460197	0.03168842	5.96E-06
C	T	0.23	0.1482222	0.03167207	4.32E-06
A	C	0.23	0.1482222	0.03167207	4.32E-06
A	C	0.22	0.143683	0.03182789	9.02E-06
T	A	0.23	0.1482222	0.03167207	4.32E-06
T	C	0.24	0.1410182	0.03140127	9.99E-06
G	T	0.24	0.1410182	0.03140127	9.99E-06
A	G	0.24	0.1411716	0.03138822	9.70E-06
T	G	0.24	0.1410182	0.03140127	9.99E-06
G	A	0.03	-0.3774231	0.08286294	7.55E-06
C	T	0.26	-0.1336185	0.0294358	8.08E-06
C	T	0.28	-0.1364511	0.02931623	4.84E-06
G	A	0.3	-0.1340191	0.02856455	4.09E-06
A	T	0.28	-0.1330067	0.02935182	8.36E-06
A	G	0.3	-0.12903	0.02858207	9.02E-06
A	G	0.28	-0.1347596	0.0293359	6.35E-06
C	T	0.28	-0.1321353	0.02925527	8.93E-06
G	A	0.28	-0.1325795	0.02932538	8.76E-06
G	A	0.28	-0.134268	0.02930574	6.70E-06
C	T	0.05	-0.2948421	0.06370246	5.44E-06
C	G	0.03	-0.351189	0.07659469	6.60E-06
G	C	0.3	-0.1291186	0.02824389	7.01E-06
T	C	0.32	-0.1342266	0.02769095	2.01E-06
A	C	0.32	-0.1328909	0.02770942	2.55E-06
A	C	0.32	-0.1337161	0.02782752	2.44E-06
G	A	0.25	-0.1393611	0.02961049	3.83E-06
T	C	0.38	-0.1180041	0.02490254	3.31E-06
C	T	0.01	1.289487	0.2810782	7.11E-06
A	ATGTGTGTGTGTG	0.01	1.293829	0.2744075	4.06E-06
G	A	0.29	0.2979057	0.06398854	5.28E-06
T	TAC	0.11	0.4602222	0.1016855	9.30E-06
G	C	0.01	1.240268	0.2699174	6.89E-06

ACT	A	0.31	-0.3056243	0.06527494	4.70E-06
G	A	0.3	-0.3019612	0.06525746	5.98E-06
A	G	0.02	0.9498105	0.2051121	5.89E-06
A	G	0.02	1.046464	0.2241016	4.97E-06
C	T	0.02	1.084464	0.2398929	9.52E-06
CA	C	0.11	-0.4529572	0.09632703	4.30E-06
T	C	0.26	0.361782	0.06636292	1.29E-07
G	A	0.37	0.3011532	0.06333646	3.40E-06
A	G	0.36	0.3027411	0.06344067	3.15E-06
C	T	0.36	0.2973852	0.06332126	4.41E-06
A	C	0.36	0.2998348	0.0629318	3.26E-06
A	G	0.35	0.2991168	0.06312206	3.65E-06
T	C	0.2	0.3310856	0.07334095	9.78E-06
A	T	0.03	-0.8205455	0.1803887	8.43E-06
C	G	0.33	-0.2844633	0.06258954	8.57E-06
A	T	0.13	0.3921503	0.08641555	8.83E-06
T	C	0.02	-0.9974397	0.2128452	4.61E-06
A	G	0.23	0.3352059	0.07030774	3.21E-06
G	A	0.23	0.3249813	0.07089721	7.23E-06
T	C	0.26	0.3029618	0.06714088	9.86E-06
G	GT	0.01	1.27186	0.2742437	5.71E-06
C	T	0.05	0.6259227	0.1375097	8.31E-06
CT	C	0.04	0.6548627	0.1435041	7.91E-06
A	G	0.01	-1.31412	0.2739974	2.82E-06
A	T	0.39	-0.2803939	0.06152409	8.11E-06
A	G	0.01	1.305038	0.2733739	3.12E-06
G	C	0.01	1.32077	0.2796518	3.92E-06
ATC	A	0.38	-0.2800973	0.06163778	8.59E-06
G	A	0.07	-0.5550262	0.1207457	6.84E-06
CA	C	0.01	1.186049	0.2624676	9.59E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
T	A	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
TATTGGTACTC	T	0.01	1.334577	0.2879702	5.80E-06
A	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
T	C	0.01	1.334577	0.2879702	5.80E-06
A	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
T	C	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
T	C	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
TCCTAGGAATTCAAGG	T	0.01	1.334577	0.2879702	5.80E-06
G	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
AG	A	0.01	1.334577	0.2879702	5.80E-06

A	G	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
A	T	0.01	1.334577	0.2879702	5.80E-06
T	C	0.01	1.334577	0.2879702	5.80E-06
G	C	0.01	1.334577	0.2879702	5.80E-06
T	C	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
T	TG	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
T	A	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.334577	0.2879702	5.80E-06
G	C	0.01	1.334577	0.2879702	5.80E-06
G	C	0.01	1.334577	0.2879702	5.80E-06
A	C	0.01	1.334577	0.2879702	5.80E-06
G	T	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
A	C	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
A	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
A	T	0.01	1.334577	0.2879702	5.80E-06
TAA	T	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
A	G	0.01	1.334577	0.2879702	5.80E-06
G	A	0.01	1.334577	0.2879702	5.80E-06
C	T	0.01	1.400981	0.3007515	5.22E-06
CT	C	0.01	1.400981	0.3007515	5.22E-06
G	C	0.01	1.334577	0.2879702	5.80E-06
G	T	0.01	1.334577	0.2879702	5.80E-06
G	GA	0.03	0.7435495	0.1641645	9.17E-06
A	G	0.28	-0.3118659	0.06593553	3.80E-06
G	A	0.26	-0.3256588	0.06737532	2.39E-06
T	G	0.4	-0.2769379	0.06111184	9.07E-06
A	C	0.12	-0.4221585	0.08852217	3.19E-06
G	A	0.13	-0.4249604	0.08431881	9.24E-07
G	A	0.13	-0.4249604	0.08431881	9.24E-07
A	G	0.14	-0.4086425	0.08411776	2.13E-06
A	G	0.12	-0.4039333	0.08823899	7.43E-06
G	C	0.12	-0.4039333	0.08823899	7.43E-06
GT	G	0.12	-0.4162979	0.09118032	7.83E-06

C	T	0.01	1.302896	0.2831055	6.68E-06
CTT	C	0.01	1.302896	0.2831055	6.68E-06
G	A	0.01	1.302896	0.2831055	6.68E-06
G	A	0.01	1.302896	0.2831055	6.68E-06
GTAGATGATTTATTT	G	0.01	1.472563	0.2910654	8.44E-07
A	AAG	0.03	0.9324188	0.1900739	1.72E-06
G	T	0.01	1.302896	0.2831055	6.68E-06
G	A	0.06	0.6036256	0.1277529	3.88E-06
G	A	0.02	1.045655	0.2308153	9.13E-06
G	A	0.04	-0.7164951	0.1501886	3.17E-06
G	A	0.01	-1.259537	0.2656995	3.62E-06
T	A	0.43	0.2659274	0.05795978	7.10E-06
C	T	0.06	0.588085	0.1298742	9.21E-06
A	AC	0.01	1.475335	0.3031025	2.04E-06
T	G	0.01	1.475335	0.3031025	2.04E-06
C	A	0.47	-0.2709952	0.05983395	9.17E-06
T	C	0.22	0.3238692	0.0715123	9.18E-06
TG	T	0.03	0.3455214	0.07602984	7.90E-06
TACACACAC	T	0.07	0.241657	0.05256868	6.26E-06
A	C	0.01	0.5250352	0.1139344	5.95E-06
G	A	0.01	0.5217712	0.1114736	4.30E-06
G	C	0.38	0.1196587	0.02628771	7.64E-06
T	C	0.26	-0.1351698	0.029645	7.39E-06
C	T	0.24	0.1378579	0.02998853	6.26E-06
G	A	0.02	0.4780614	0.1063309	9.77E-06
G	C	0.12	-0.1953746	0.04226088	5.57E-06
C	T	0.06	-0.2417897	0.05268461	6.47E-06
A	C	0.09	-0.2040269	0.04382665	4.82E-06
T	C	0.08	-0.2160737	0.04800401	9.55E-06
AAGAG	A	0.07	-0.229105	0.05031902	7.60E-06
A	T	0.08	-0.2183161	0.04784345	7.27E-06
G	T	0.07	-0.2196293	0.04839942	8.13E-06
T	G	0.07	-0.2356893	0.05047932	4.53E-06
G	A	0.07	-0.229105	0.05031902	7.60E-06
C	T	0.07	-0.2243419	0.04922588	7.46E-06
T	C	0.07	-0.2261479	0.04996457	8.56E-06
C	T	0.07	-0.2281686	0.05032834	8.29E-06
G	A	0.07	-0.2306798	0.05011664	6.10E-06
C	T	0.07	-0.2238613	0.04978003	9.73E-06
A	G	0.07	-0.2306798	0.05011664	6.10E-06
C	A	0.07	-0.2306798	0.05011664	6.10E-06
T	A	0.07	-0.2264687	0.04975662	7.66E-06
A	T	0.07	-0.2265993	0.04956838	7.01E-06
G	A	0.06	-0.2410932	0.05087812	3.31E-06
A	G	0.07	-0.2268463	0.04917422	5.83E-06
T	C	0.06	-0.2410932	0.05087812	3.31E-06
T	C	0.06	-0.2410932	0.05087812	3.31E-06
T	C	0.4	-0.1188462	0.02567032	5.41E-06
T	C	0.04	0.3209241	0.07079016	8.29E-06
G	C	0.04	0.2886588	0.06397165	9.10E-06

A	G	0.34	0.1290751	0.0266281	2.01E-06
G	C	0.34	0.1272184	0.02662437	2.76E-06
CG	C	0.34	0.1272386	0.02662758	2.76E-06
G	T	0.34	0.1269144	0.02663472	2.93E-06
T	C	0.33	0.129062	0.02696079	2.65E-06
T	C	0.33	0.129062	0.02696079	2.65E-06
G	T	0.33	0.1267455	0.02702494	4.13E-06
C	G	0.33	0.129062	0.02696079	2.65E-06
C	A	0.33	0.1267455	0.02702494	4.13E-06
A	C	0.33	0.129062	0.02696079	2.65E-06
G	A	0.32	0.1269316	0.02716616	4.47E-06
CA	C	0.33	0.1271976	0.02696168	3.64E-06
G	C	0.33	0.1273501	0.02696008	3.54E-06
C	T	0.33	0.1300562	0.02693984	2.20E-06
A	G	0.33	0.129062	0.02696079	2.65E-06
G	T	0.33	0.1244422	0.02700789	5.97E-06
T	C	0.33	0.130121	0.0269404	2.18E-06
G	A	0.33	0.1299586	0.02694382	2.25E-06
C	T	0.33	0.1293664	0.02706099	2.73E-06
C	CA	0.33	0.1281549	0.02694993	3.07E-06
G	A	0.33	0.129062	0.02696079	2.65E-06
T	A	0.33	0.1309427	0.02695668	1.92E-06
T	A	0.33	0.1280181	0.02703863	3.37E-06
T	G	0.33	0.1296657	0.02690711	2.29E-06
A	G	0.33	0.1267416	0.02692532	3.82E-06
T	C	0.33	0.1309427	0.02695668	1.92E-06
T	C	0.33	0.1309427	0.02695668	1.92E-06
T	C	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.131951	0.02693779	1.59E-06
T	C	0.33	0.1333393	0.02691523	1.22E-06
A	G	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1309427	0.02695668	1.92E-06
G	T	0.33	0.1309427	0.02695668	1.92E-06
T	A	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1309427	0.02695668	1.92E-06
T	C	0.33	0.1309427	0.02695668	1.92E-06
T	C	0.33	0.1309427	0.02695668	1.92E-06
C	T	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1286622	0.02696094	2.84E-06
C	G	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1272014	0.02707921	3.99E-06
G	C	0.33	0.1309427	0.02695668	1.92E-06
G	A	0.33	0.1340845	0.02696705	1.12E-06
G	C	0.33	0.122515	0.02692265	7.69E-06
GCTT	G	0.33	0.1265528	0.02692704	3.95E-06

C	G	0.34	0.1284129	0.02692634	2.88E-06
G	T	0.34	0.1293753	0.02684792	2.29E-06
G	T	0.34	0.1284129	0.02692634	2.88E-06
C	T	0.34	0.1284129	0.02692634	2.88E-06
T	G	0.34	0.1284129	0.02692634	2.88E-06
CATT	C	0.33	0.1265528	0.02692704	3.95E-06
T	C	0.34	0.1242151	0.02683059	5.41E-06
A	G	0.31	0.1248704	0.02765777	9.00E-06
C	G	0.31	0.1255332	0.02758268	7.67E-06
TAC	T	0.12	-0.2118267	0.04137819	5.56E-07
G	A	0.26	0.1508459	0.02977305	7.16E-07
A	C	0.11	0.1689362	0.03600832	4.10E-06
C	CA	0.09	0.216945	0.04642572	4.46E-06
G	C	0.19	0.1475874	0.03249938	8.01E-06
G	T	0.3	-0.1290393	0.02800092	5.95E-06
T	G	0.3	-0.1305079	0.02797324	4.61E-06
T	C	0.3	-0.1246262	0.02765744	9.35E-06
A	C	0.02	0.438454	0.09117751	2.40E-06
C	T	0.02	0.438454	0.09117751	2.40E-06
A	G	0.03	-0.315819	0.06891539	6.67E-06
T	G	0.03	-0.3542226	0.06574655	1.49E-07
T	C	0.03	-0.3542226	0.06574655	1.49E-07
G	A	0.03	-0.3408282	0.06419194	2.20E-07
C	T	0.04	-0.3395672	0.06266199	1.27E-07
G	A	0.04	-0.3395672	0.06266199	1.27E-07
CT	C	0.02	-0.3917633	0.07604826	4.76E-07
A	G	0.04	-0.3395672	0.06266199	1.27E-07
A	G	0.04	-0.3395672	0.06266199	1.27E-07
A	T	0.04	-0.3395672	0.06266199	1.27E-07
C	A	0.03	-0.3250679	0.06368357	5.97E-07
G	C	0.02	-0.4252086	0.0853757	1.08E-06
T	C	0.02	-0.4252086	0.0853757	1.08E-06
C	T	0.48	0.1103119	0.02365032	4.63E-06
T	C	0.02	-0.3865201	0.07920892	1.73E-06
G	A	0.02	-0.4288233	0.08591702	1.03E-06
TCTC	T	0.06	-0.2478501	0.05281447	4.07E-06
TTG	T	0.03	-0.35753	0.07461487	2.60E-06
T	G	0.04	-0.2984566	0.06461595	5.68E-06
CA	C	0.03	-0.307521	0.06497913	3.40E-06
T	A	0.04	-0.2984566	0.06461595	5.68E-06
A	G	0.04	-0.2984566	0.06461595	5.68E-06
G	C	0.04	-0.2895201	0.0640232	8.71E-06
A	G	0.04	-0.2895201	0.0640232	8.71E-06
A	C	0.04	-0.2984566	0.06461595	5.68E-06
C	T	0.04	-0.2984566	0.06461595	5.68E-06
G	A	0.04	-0.2984566	0.06461595	5.68E-06
C	T	0.04	-0.2984566	0.06461595	5.68E-06
G	A	0.04	-0.2984566	0.06461595	5.68E-06
T	C	0.02	-0.4165844	0.07979607	3.40E-07
T	A	0.04	-0.2984566	0.06461595	5.68E-06

T	G	0.04	-0.2984566	0.06461595	5.68E-06
A	G	0.04	-0.2984566	0.06461595	5.68E-06
T	G	0.04	-0.2984566	0.06461595	5.68E-06
G	A	0.04	-0.2984566	0.06461595	5.68E-06
C	T	0.04	-0.2984566	0.06461595	5.68E-06
C	A	0.04	-0.2984566	0.06461595	5.68E-06
C	T	0.04	-0.2984566	0.06461595	5.68E-06
G	A	0.04	-0.2984566	0.06461595	5.68E-06
G	T	0.04	-0.2984566	0.06461595	5.68E-06
G	T	0.04	-0.2984566	0.06461595	5.68E-06
G	T	0.04	-0.2984566	0.06461595	5.68E-06
A	G	0.04	-0.2984566	0.06461595	5.68E-06
G	C	0.04	-0.2984566	0.06461595	5.68E-06
T	C	0.04	-0.2984566	0.06461595	5.68E-06
G	GAGGTTC	0.03	-0.307521	0.06497913	3.40E-06
C	G	0.04	-0.2984566	0.06461595	5.68E-06
A	G	0.47	0.1091716	0.02372151	6.12E-06
T	G	0.32	-0.1133875	0.02482692	7.15E-06
G	T	0.48	-0.1092756	0.02385697	6.74E-06
A	G	0.48	-0.1078827	0.02378303	8.19E-06
A	T	0.48	-0.1100149	0.02378399	5.51E-06
C	T	0.46	-0.1099587	0.02436331	9.06E-06
C	T	0.46	-0.1103845	0.02439808	8.63E-06
T	C	0.49	-0.1072789	0.02380923	9.36E-06
A	G	0.46	-0.1090933	0.02428882	9.96E-06
A	C	0.02	-0.3726221	0.08090446	6.02E-06
A	T	0.03	-0.3392492	0.07517299	9.07E-06
C	T	0.03	-0.3392492	0.07517299	9.07E-06
A	T	0.02	-0.3892567	0.0856228	7.84E-06
G	C	0.02	-0.3892567	0.0856228	7.84E-06
G	A	0.03	-0.3392492	0.07517299	9.07E-06
C	G	0.03	-0.3392492	0.07517299	9.07E-06
G	A	0.02	-0.3892567	0.0856228	7.84E-06
G	A	0.02	-0.3892567	0.0856228	7.84E-06
C	T	0.02	-0.3892567	0.0856228	7.84E-06
C	CG	0.02	-0.3892567	0.0856228	7.84E-06
C	T	0.02	-0.3892567	0.0856228	7.84E-06
G	A	0.02	-0.3892567	0.0856228	7.84E-06
A	G	0.02	-0.3892567	0.0856228	7.84E-06
C	T	0.02	-0.3892567	0.0856228	7.84E-06
C	T	0.02	-0.3892567	0.0856228	7.84E-06
A	G	0.02	-0.3892567	0.0856228	7.84E-06
A	T	0.02	-0.3892567	0.0856228	7.84E-06
A	G	0.02	-0.3892567	0.0856228	7.84E-06
C	G	0.02	-0.3892567	0.0856228	7.84E-06
C	T	0.16	-0.1455615	0.03200452	7.77E-06
C	T	0.16	-0.146517	0.03202261	6.89E-06
C	T	0.17	-0.1540626	0.03140608	1.53E-06
C	A	0.37	-0.1137372	0.02423407	4.07E-06

T	C	0.09	-0.187627	0.04042879	5.14E-06
G	A	0.38	-0.1204913	0.02558178	3.77E-06
G	A	0.37	-0.109748	0.02397226	6.81E-06
G	A	0.37	-0.1083798	0.02404716	9.31E-06
T	G	0.35	-0.1155087	0.02377677	1.91E-06
A	G	0.37	-0.1085414	0.02393909	8.27E-06
A	G	0.01	-0.4753368	0.1048948	8.36E-06
T	G	0.03	-0.3363795	0.07472662	9.54E-06
A	C	0.02	-0.4082269	0.08625194	3.40E-06
TAAGG	T	0.42	-0.10692	0.02373544	9.41E-06
C	CTA	0.07	-0.2277504	0.05000484	7.55E-06
T	C	0.04	-0.2998824	0.06603842	8.02E-06
A	G	0.01	-0.4827437	0.1010935	2.80E-06
G	A	0.02	-0.4514257	0.09982261	8.71E-06
G	A	0.02	-0.4314991	0.09432812	6.92E-06
C	T	0.04	-0.3035871	0.06511235	4.67E-06
C	T	0.05	-0.234643	0.05187064	8.66E-06
A	C	0.05	-0.2735467	0.0589496	5.16E-06
C	T	0.2	-0.1448402	0.02933978	1.33E-06
A	G	0.2	-0.1348606	0.02973487	8.22E-06
T	C	0.2	-0.1345159	0.02948802	7.32E-06
T	A	0.02	-0.3615339	0.08045248	9.87E-06
G	A	0.01	-0.5477808	0.1092369	9.17E-07
G	A	0.01	-0.475146	0.1011588	4.00E-06
C	A	0.33	-0.1271417	0.02515304	7.58E-07
T	C	0.01	-0.559291	0.1213187	5.90E-06
A	C	0.02	-0.3730827	0.0799584	4.60E-06
A	G	0.05	-0.2588893	0.05677707	7.38E-06
G	GCA	0.07	-0.229818	0.04985373	5.91E-06
C	G	0.12	-0.1738944	0.03658394	3.10E-06
A	G	0.12	-0.1817157	0.03615467	8.69E-07
AG	A	0.14	-0.160042	0.03348391	2.74E-06
C	G	0.15	-0.1534223	0.03340029	6.36E-06
C	A	0.13	-0.1683986	0.03466189	1.91E-06
A	T	0.13	-0.1654616	0.03459988	2.71E-06
T	G	0.13	-0.1654616	0.03459988	2.71E-06
C	G	0.13	-0.1664925	0.03462773	2.41E-06
A	C	0.13	-0.169449	0.03469071	1.69E-06
C	T	0.13	-0.1668258	0.03467472	2.37E-06
A	G	0.15	-0.1537978	0.03256881	3.57E-06
C	T	0.14	-0.1610953	0.0345193	4.58E-06
C	T	0.15	-0.1602703	0.0333857	2.49E-06
CA	C	0.15	-0.167679	0.03336747	8.72E-07
C	A	0.02	-0.3874293	0.08186448	3.40E-06
A	G	0.41	-0.1137501	0.02388736	2.98E-06
T	C	0.01	-0.514138	0.1139112	9.05E-06
TTCCAC	T	0.03	-0.3361224	0.06901903	1.81E-06
A	ACACCACCACCAC	0.04	-0.2861359	0.06181731	5.43E-06
A	G	0.02	-0.4265252	0.09203939	5.30E-06
A	G	0.33	0.1255351	0.02740623	6.73E-06

C	G	0.06	0.2661111	0.05490917	2.02E-06
C	G	0.42	-0.1134463	0.02481272	6.99E-06
A	G	0.45	-0.1162763	0.02456517	3.39E-06
A	C	0.01	-0.5131787	0.1116634	6.29E-06
G	A	0.45	0.1138006	0.02499443	7.60E-06
G	A	0.02	-0.4680134	0.1034929	8.71E-06
T	A	0.01	-0.4906543	0.1083207	8.43E-06
T	G	0.01	-0.4906543	0.1083207	8.43E-06
T	A	0.03	-0.3684556	0.07000466	2.76E-07
C	A	0.04	-0.3020905	0.06250074	2.14E-06
A	G	0.04	-0.3108169	0.06206668	9.48E-07
G	A	0.01	-0.5308528	0.1138667	4.68E-06
C	A	0.01	-0.5308528	0.1138667	4.68E-06
C	G	0.01	-0.5308528	0.1138667	4.68E-06
CT	C	0.07	0.2129172	0.04707414	8.68E-06
C	A	0.09	0.1957837	0.04358874	9.96E-06
A	G	0.09	0.1957837	0.04358874	9.96E-06
A	G	0.09	0.1957837	0.04358874	9.96E-06
T	A	0.09	0.1957837	0.04358874	9.96E-06
T	A	0.09	0.2023066	0.04367804	5.36E-06
A	G	0.09	0.1957837	0.04358874	9.96E-06
A	T	0.09	0.1957837	0.04358874	9.96E-06
G	A	0.09	0.1957837	0.04358874	9.96E-06
C	T	0.08	0.2147882	0.04655743	5.82E-06
T	C	0.23	-0.1398601	0.0309613	8.90E-06
C	T	0.23	-0.1414506	0.03096198	7.10E-06
ATG	A	0.02	-0.4141199	0.08824114	4.07E-06
G	A	0.02	-0.4133927	0.09175635	9.38E-06
C	CGT	0.03	-0.3773452	0.07392361	5.97E-07
G	A	0.12	-0.1756053	0.03890254	9.03E-06
G	A	0.12	-0.1756053	0.03890254	9.03E-06
C	T	0.12	-0.1756053	0.03890254	9.03E-06
CCTTTT	C	0.12	-0.1756053	0.03890254	9.03E-06
C	T	0.12	-0.1756053	0.03890254	9.03E-06
T	C	0.12	-0.1756053	0.03890254	9.03E-06
GA	G	0.12	-0.1827804	0.03874853	3.65E-06
C	T	0.22	-0.1398957	0.02995719	4.52E-06
A	G	0.23	-0.1433682	0.02980181	2.38E-06
G	T	0.23	-0.1433682	0.02980181	2.38E-06
A	C	0.12	-0.1794402	0.03901402	6.19E-06
T	C	0.23	-0.1491186	0.03004547	1.17E-06
A	G	0.12	-0.1794402	0.03901402	6.19E-06
T	TTTTG	0.22	-0.148793	0.03028954	1.49E-06
A	G	0.23	-0.1446245	0.02992914	2.15E-06
TC	T	0.23	-0.1433994	0.03008231	2.91E-06
T	C	0.23	-0.1410232	0.03012093	4.28E-06
T	C	0.12	-0.1794402	0.03901402	6.19E-06
G	A	0.23	-0.1446245	0.02992914	2.15E-06
A	G	0.22	-0.1448805	0.03021662	2.56E-06
A	G	0.23	-0.1423505	0.02982942	2.84E-06

G	A	0.12	-0.1794402	0.03901402	6.19E-06
G	T	0.23	-0.1446245	0.02992914	2.15E-06
T	C	0.22	-0.1360289	0.03015311	9.14E-06
TTTG	T	0.12	-0.1794402	0.03901402	6.19E-06
T	C	0.23	-0.1410232	0.03012093	4.28E-06
G	A	0.23	-0.1446245	0.02992914	2.15E-06
T	G	0.23	-0.1446245	0.02992914	2.15E-06
CT	C	0.06	-0.2327866	0.05147873	8.72E-06
T	C	0.29	-0.1292845	0.02804477	5.91E-06
G	A	0.29	-0.1285302	0.0282358	7.64E-06
A	C	0.08	-0.2280166	0.04737562	2.36E-06
G	A	0.39	-0.1119477	0.02445841	6.84E-06
T	C	0.04	-0.304094	0.06627184	6.50E-06
A	G	0.05	-0.2754064	0.06044713	7.50E-06
T	C	0.09	-0.1966546	0.04367844	9.50E-06
A	T	0.15	-0.1650913	0.03625162	7.57E-06
C	T	0.15	-0.1678383	0.03628501	5.51E-06
C	T	0.15	-0.1650913	0.03625162	7.57E-06
A	G	0.15	-0.1653302	0.03617571	7.05E-06
T	A	0.15	-0.1653302	0.03617571	7.05E-06
T	C	0.15	-0.1653302	0.03617571	7.05E-06
G	A	0.15	-0.1538097	0.03369291	7.21E-06
G	T	0.15	-0.1533643	0.03376247	7.97E-06
T	C	0.08	-0.2194817	0.047588	5.85E-06
G	A	0.08	-0.2147992	0.04778438	9.81E-06
C	T	0.08	-0.2201796	0.04758252	5.47E-06
T	C	0.05	-0.2908214	0.05776173	8.33E-07
A	G	0.32	-0.1178252	0.02619274	9.67E-06
GTGGTGA	G	0.04	-0.2658205	0.05806304	6.81E-06
C	T	0.29	-0.1230515	0.02504631	1.48E-06
AAAAAAT	A	0.19	0.1366363	0.03037933	9.70E-06
A	G	0.49	0.1161727	0.02509792	5.43E-06
A	G	0.47	0.1150395	0.02518437	7.12E-06
T	G	0.04	-0.3029892	0.06266364	2.13E-06
TCG	T	0.02	0.946865	0.2096666	9.61E-06
G	GA	0.02	0.808045	0.1733226	5.07E-06
G	A	0.02	0.9480729	0.2032637	5.02E-06
C	T	0.02	0.9481741	0.2035339	5.15E-06
A	G	0.02	0.9481741	0.2035339	5.15E-06
TTA	T	0.02	1.12114	0.2142656	3.65E-07
A	C	0.01	1.386538	0.3047726	8.31E-06
T	TTTTG	0.02	0.9890946	0.2114793	4.75E-06
T	C	0.01	1.412646	0.3132632	9.88E-06
C	G	0.01	1.412646	0.3132632	9.88E-06
G	A	0.02	1.227991	0.2553508	2.63E-06
G	A	0.01	1.207012	0.2641173	7.60E-06
G	A	0.01	1.207012	0.2641173	7.60E-06
A	G	0.01	1.193834	0.2644069	9.64E-06
A	G	0.01	1.182341	0.2610453	9.07E-06
C	G	0.06	0.6159499	0.1235249	1.17E-06

C	T	0.01	1.228312	0.245082	1.04E-06
T	C	0.02	0.9749263	0.2022765	2.50E-06
G	C	0.09	-0.4519717	0.09930622	8.25E-06
G	C	0.01	1.330553	0.267235	1.21E-06
C	A	0.02	1.214762	0.237919	6.67E-07
C	T	0.02	1.214762	0.237919	6.67E-07
TTC	T	0.02	1.214762	0.237919	6.67E-07
A	T	0.02	0.840114	0.1859335	9.51E-06
C	T	0.02	1.050123	0.2102414	1.12E-06
C	T	0.02	1.091416	0.2156615	8.25E-07
A	G	0.02	0.8973883	0.1737792	5.07E-07
C	T	0.5	-0.2631958	0.05814882	9.19E-06
A	G	0.26	0.31383	0.06844828	7.12E-06
GA	G	0.02	0.9816022	0.2137976	6.93E-06
G	T	0.18	-0.3610861	0.07553214	2.99E-06
T	C	0.19	-0.3589896	0.0761497	4.02E-06
G	A	0.01	1.227984	0.2544456	2.43E-06
G	A	0.03	0.8036692	0.1752838	7.12E-06
A	T	0.01	1.234207	0.2709077	8.09E-06
A	G	0.02	0.9461943	0.2008729	4.09E-06
G	T	0.02	0.9461943	0.2008729	4.09E-06
G	A	0.02	0.9461943	0.2008729	4.09E-06
A	T	0.02	0.9461943	0.2008729	4.09E-06
C	G	0.02	0.9461943	0.2008729	4.09E-06
C	T	0.02	0.9461943	0.2008729	4.09E-06
A	C	0.02	0.9461943	0.2008729	4.09E-06
G	A	0.01	1.063444	0.235281	9.45E-06
T	A	0.05	0.6615893	0.1386337	3.10E-06
GT	G	0.02	0.9262082	0.1944523	3.23E-06
G	C	0.04	0.7084438	0.1486387	3.19E-06
C	G	0.04	0.7084438	0.1486387	3.19E-06
C	T	0.03	0.7659373	0.1672464	7.29E-06
T	A	0.03	0.802917	0.1735075	5.91E-06
T	C	0.03	-0.8177548	0.1812349	9.77E-06
TGAGA	T	0.24	-0.3030962	0.06595017	6.79E-06
CAGA	C	0.02	0.9271427	0.2002982	5.87E-06
C	G	0.02	0.9373891	0.2010813	5.08E-06
G	A	0.01	1.398324	0.284558	1.63E-06
G	A	0.02	1.386366	0.2605732	2.39E-07
C	T	0.01	1.524516	0.2903968	3.36E-07
C	CGTGTAT	0.01	1.240919	0.2655734	4.84E-06
G	A	0.16	0.3687872	0.07799836	3.78E-06
A	G	0.09	0.4936927	0.1073066	6.64E-06
A	G	0.09	0.4936927	0.1073066	6.64E-06
T	C	0.09	0.4936927	0.1073066	6.64E-06
A	C	0.01	1.237248	0.2705974	7.53E-06
C	G	0.01	1.237248	0.2705974	7.53E-06
C	T	0.05	-0.5418282	0.1198919	9.47E-06
A	G	0.01	1.258856	0.2502821	9.53E-07
A	G	0.02	1.124248	0.2393106	4.33E-06

A	T	0.28	-0.316804	0.06923376	7.41E-06
G	A	0.14	0.3906638	0.08512233	6.98E-06
C	G	0.14	0.393068	0.08496329	5.94E-06
A	G	0.14	0.393068	0.08496329	5.94E-06
T	C	0.14	0.4013583	0.08489831	3.79E-06
G	T	0.14	0.393068	0.08496329	5.94E-06
A	T	0.14	0.393068	0.08496329	5.94E-06
A	G	0.14	0.393068	0.08496329	5.94E-06
G	T	0.02	1.000321	0.2114935	3.75E-06
A	G	0.06	0.5575496	0.1198936	5.34E-06
G	C	0.06	0.5852995	0.1188584	1.55E-06
C	T	0.06	0.5491329	0.1188861	6.13E-06
G	C	0.01	1.334483	0.291834	7.51E-06
A	G	0.1	0.4501452	0.09862773	7.80E-06
G	T	0.09	0.4800591	0.1033284	5.45E-06
A	G	0.03	0.9784692	0.1906292	5.87E-07
C	G	0.03	0.804191	0.1746353	6.52E-06
C	T	0.01	1.379833	0.2564514	1.78E-07
C	A	0.02	1.211068	0.2349021	5.27E-07
T	C	0.01	1.313749	0.281348	4.91E-06
T	C	0.01	1.313749	0.281348	4.91E-06
G	A	0.02	0.9859981	0.2105204	4.61E-06
C	T	0.02	0.9859981	0.2105204	4.61E-06
C	T	0.11	-0.4917457	0.1001218	1.65E-06
T	A	0.42	0.2769736	0.06085093	8.23E-06
G	A	0.02	1.039002	0.2255823	6.50E-06
C	T	0.01	1.329468	0.2584204	5.55E-07
C	T	0.01	0.5406836	0.1147204	3.72E-06
C	T	0.04	0.2812578	0.06044141	4.86E-06
A	G	0.45	0.108825	0.02362185	5.99E-06
T	C	0.45	0.1088292	0.02361974	5.97E-06
G	A	0.45	0.1088292	0.02361974	5.97E-06
T	C	0.46	0.1071015	0.02361409	8.22E-06
C	T	0.45	0.1088292	0.02361974	5.97E-06
G	A	0.45	0.1088292	0.02361974	5.97E-06
C	T	0.45	0.107502	0.02373241	8.43E-06
G	T	0.45	0.1092786	0.02368114	5.79E-06
C	T	0.45	0.1110198	0.02368659	4.18E-06
TAGCCTG	T	0.45	0.1174975	0.02374116	1.25E-06
A	G	0.45	0.1066343	0.02367007	9.39E-06
A	G	0.45	0.1127718	0.02369498	3.01E-06
A	G	0.45	0.1068267	0.02372388	9.48E-06
A	C	0.45	0.1092786	0.02368114	5.79E-06
T	C	0.45	0.1092786	0.02368114	5.79E-06
G	A	0.45	0.1110198	0.02368659	4.18E-06
C	T	0.45	0.1092786	0.02368114	5.79E-06
G	C	0.45	0.1110202	0.02368916	4.19E-06
T	C	0.45	0.1068373	0.0237224	9.45E-06
G	GA	0.45	0.1079783	0.02375811	7.88E-06
C	T	0.45	0.1073204	0.02369092	8.42E-06

A	G	0.45	0.1059941	0.02360014	9.98E-06
G	A	0.45	0.1085841	0.02373129	6.88E-06
A	G	0.45	0.1097122	0.02375397	5.68E-06
A	G	0.45	0.1110198	0.02368659	4.18E-06
A	C	0.43	0.1072949	0.02328933	5.99E-06
C	G	0.44	0.1116371	0.023584	3.39E-06
C	T	0.41	0.1076481	0.02303209	4.44E-06
C	T	0.43	0.1103743	0.023444	3.80E-06
C	A	0.45	0.1061395	0.02358035	9.55E-06
A	G	0.43	0.1082303	0.02345809	5.81E-06
G	A	0.45	0.107974	0.02365386	7.22E-06
C	T	0.45	0.1098437	0.023656	5.09E-06
G	C	0.45	0.1110198	0.02368659	4.18E-06
G	A	0.45	0.1104762	0.02371804	4.77E-06
C	A	0.45	0.111055	0.02368965	4.16E-06
T	C	0.46	0.1132596	0.02362841	2.58E-06
A	G	0.46	0.1116691	0.02363785	3.53E-06
C	T	0.45	0.1110198	0.02368659	4.18E-06
C	G	0.46	0.1069232	0.0236142	8.49E-06
G	A	0.12	-0.1723606	0.03558743	2.05E-06
A	G	0.12	-0.1723606	0.03558743	2.05E-06
A	AGG	0.11	-0.1823931	0.03739583	1.75E-06
C	T	0.12	-0.172779	0.03586456	2.31E-06
T	C	0.12	-0.172104	0.03484566	1.31E-06
GTGTGTC	G	0.13	-0.1637043	0.03530485	5.24E-06
C	T	0.41	0.1105045	0.02356745	4.15E-06
T	C	0.02	0.4722863	0.08990159	2.90E-07
C	T	0.09	0.1783178	0.0394274	8.69E-06
A	G	0.17	0.1399754	0.02989735	4.28E-06
A	C	0.17	0.1382206	0.03008543	6.34E-06
G	A	0.16	0.1447395	0.03059389	3.43E-06
G	C	0.17	0.1421819	0.03024101	3.91E-06
C	T	0.17	0.1421819	0.03024101	3.91E-06
A	T	0.14	0.1620492	0.03218211	8.31E-07
C	A	0.17	0.1374557	0.02987377	6.14E-06
A	G	0.17	0.1415098	0.02916273	1.96E-06
C	G	0.17	0.1428731	0.0300207	3.01E-06
T	A	0.13	0.1599262	0.0333241	2.51E-06
T	TGTGTGTGTGTGTA	0.02	0.4333458	0.0906349	2.72E-06
A	AT	0.17	0.1551154	0.0317985	1.74E-06
CA	C	0.01	0.5107655	0.09788863	3.45E-07
G	A	0.01	0.5107655	0.09788863	3.45E-07
C	T	0.01	0.5107655	0.09788863	3.45E-07
AC	A	0.02	0.4144121	0.09220745	9.84E-06
A	T	0.02	0.466394	0.08677743	1.59E-07
GT	G	0.01	0.4984677	0.1050501	3.21E-06
T	C	0.03	0.3373254	0.07107199	3.20E-06
CTGTGTG	C	0.02	0.477037	0.09560775	1.03E-06
G	A	0.46	-0.1034764	0.02266893	7.22E-06
C	T	0.02	0.3852924	0.08235375	4.35E-06

G	GTGTGTA	0.02	0.435469	0.09548971	7.36E-06
TACACAC	T	0.01	0.4934059	0.0993216	1.15E-06
C	T	0.07	0.2234479	0.04409041	7.12E-07
T	A	0.02	0.3690234	0.07792201	3.35E-06
C	A	0.03	0.3096581	0.06849167	8.75E-06
TACACAC	T	0.03	0.3053134	0.06681557	7.07E-06
GTCCCTTCCACCACAT	T	0.22	-0.1326417	0.02924173	8.20E-06
G	A	0.22	-0.1284673	0.02843404	8.87E-06
A	G	0.01	0.5150339	0.1085655	3.23E-06
T	G	0.37	0.109626	0.02328326	3.80E-06
T	C	0.09	0.1981349	0.0389513	6.50E-07
T	TTG	0.02	0.4117279	0.08670208	3.16E-06
T	C	0.3	0.1119827	0.0246618	8.03E-06
A	G	0.46	-0.1076681	0.02384478	8.98E-06
C	T	0.47	-0.1104306	0.02379595	5.15E-06
CA	C	0.04	0.3093251	0.06274628	1.37E-06
G	GTGTGTGTT	0.02	0.4029231	0.08408731	2.60E-06
A	G	0.06	0.218797	0.04861667	9.58E-06
C	A	0.02	0.3980185	0.08395584	3.28E-06
T	G	0.47	0.1029866	0.02280593	8.96E-06
G	A	0.48	0.1029613	0.02276512	8.69E-06
A	AT	0.12	0.163495	0.03630712	9.47E-06
TAC	T	0.08	0.2133469	0.04524765	3.68E-06
A	C	0.03	0.3260004	0.07179651	8.03E-06
C	T	0.01	0.4634987	0.09821038	3.61E-06
C	T	0.02	0.446377	0.09412158	3.25E-06
G	T	0.02	0.446377	0.09412158	3.25E-06
C	T	0.02	0.446377	0.09412158	3.25E-06
G	A	0.02	0.4733124	0.0959867	1.36E-06
G	A	0.01	0.4582535	0.09817712	4.56E-06
GTAGA	G	0.02	0.4733124	0.0959867	1.36E-06
C	CCA	0.01	0.45286	0.1002076	8.83E-06
T	C	0.01	0.4611025	0.09862868	4.41E-06
GA	G	0.5	-0.109222	0.02246443	1.88E-06
T	A	0.33	0.1120179	0.02438041	6.33E-06
G	A	0.32	0.1163605	0.02459085	3.41E-06
G	GGTGTGTGT	0.02	0.391685	0.08620021	7.92E-06
G	A	0.01	0.5605389	0.1126652	1.11E-06
C	T	0.01	0.4781965	0.1057118	8.66E-06
C	T	0.05	0.2366372	0.05251021	9.33E-06
TCTA	T	0.05	0.2499606	0.05301561	3.69E-06
T	TCAC	0.03	-0.8028431	0.1646993	1.77E-06
C	A	0.03	-0.8121459	0.1671394	1.91E-06
G	T	0.35	-0.2424073	0.05378259	9.31E-06
A	AAGT	0.07	-0.5256361	0.1006469	3.37E-07
C	T	0.02	-0.9122684	0.1911714	2.85E-06
C	T	0.02	-0.9769951	0.1968297	1.17E-06
A	G	0.02	-0.8815372	0.1929569	7.11E-06
G	T	0.02	-0.854869	0.1876002	7.48E-06
CTGTT	C	0.05	0.5106784	0.1025545	1.08E-06

A	T	0.05	-0.5720772	0.1213674	3.71E-06
A	G	0.34	0.2694038	0.0519865	4.11E-07
G	A	0.18	-0.3063403	0.06817269	9.88E-06
G	T	0.19	-0.3109519	0.06731938	5.68E-06
G	GAAGGACGGAAGA	0.01	-1.015844	0.2248414	8.88E-06
A	T	0.13	0.3562535	0.07625797	4.49E-06
C	T	0.04	-0.6602884	0.1466033	9.45E-06
G	A	0.04	-0.7003855	0.14006	9.82E-07
C	T	0.03	-0.7397352	0.1607735	6.15E-06
G	A	0.06	0.5040778	0.1094781	6.06E-06
A	ACACACACC	0.04	0.6265812	0.1344483	4.72E-06
C	T	0.18	-0.3093494	0.06757247	6.82E-06
GT	G	0.28	-0.2750781	0.0584223	3.80E-06
T	C	0.28	-0.2688229	0.05841665	6.13E-06
G	A	0.01	-1.218723	0.2631333	5.37E-06
G	A	0.02	-0.8787905	0.193883	8.33E-06
C	T	0.01	-1.197267	0.2319882	4.56E-07
CGT	C	0.09	0.49698	0.09723557	5.79E-07
T	TAAAACAAAACAAAAA	0.01	-1.241445	0.2574727	2.27E-06
G	C	0.38	0.2531873	0.05492562	5.93E-06
A	G	0.38	0.2511693	0.05488461	6.87E-06
T	TAC	0.38	0.2803718	0.05996321	4.41E-06
AAC	A	0.02	0.7931164	0.1726956	6.39E-06
G	A	0.14	-0.3558536	0.07865397	8.64E-06
A	G	0.02	-0.9341311	0.2063544	8.55E-06
G	A	0.02	-0.8450535	0.1876545	9.48E-06
CTGTGTGTGTGTG	C	0.01	-1.157358	0.2345684	1.34E-06
A	G	0.33	0.2786189	0.05774296	2.23E-06
C	CA	0.04	-0.6497492	0.1437096	8.76E-06
TGTGTGACA	T	0.03	-0.7038615	0.1500855	4.14E-06
C	A	0.04	-0.6101475	0.134864	8.65E-06
G	A	0.04	-0.6101475	0.134864	8.65E-06
G	T	0.04	-0.6101475	0.134864	8.65E-06
TA	T	0.02	-0.8215017	0.1768772	5.07E-06
C	T	0.31	0.271147	0.06007427	9.06E-06
G	A	0.02	-1.000323	0.2188879	7.07E-06
T	TCA	0.02	-0.9536287	0.1920744	1.16E-06
A	C	0.01	-1.061614	0.2277385	4.70E-06
G	C	0.01	-1.061614	0.2277385	4.70E-06
T	C	0.35	0.2621017	0.05497532	2.90E-06
G	C	0.01	-1.247425	0.226211	7.88E-08
G	A	0.02	-0.9074102	0.1974045	6.28E-06
CATTATATAA	C	0.02	-1.032995	0.2232833	5.50E-06
A	G	0.39	0.2633829	0.05605324	3.97E-06
C	T	0.04	-0.6568443	0.1415072	5.13E-06
T	C	0.21	-0.2885908	0.06330344	7.42E-06
G	T	0.18	-0.3617378	0.07313208	1.27E-06
T	C	0.19	-0.3342108	0.0716801	4.68E-06
C	CTA	0.19	-0.3312488	0.07168994	5.64E-06
G	T	0.23	-0.2995234	0.06537645	6.71E-06

C	T	0.23	-0.2995234	0.06537645	6.71E-06
A	C	0.07	-0.5140672	0.1042758	1.37E-06
T	C	0.18	-0.351126	0.07251498	2.06E-06
C	T	0.18	-0.3561234	0.07282419	1.65E-06
A	T	0.18	-0.3562336	0.07333822	1.92E-06
A	G	0.18	-0.3566298	0.07275876	1.57E-06
C	T	0.18	-0.3582259	0.07274478	1.41E-06
C	T	0.18	-0.3561234	0.07282419	1.65E-06
G	T	0.18	-0.3521099	0.07358927	2.69E-06
C	T	0.18	-0.3516312	0.07366139	2.83E-06
G	T	0.18	-0.3566298	0.07275876	1.57E-06
G	A	0.18	-0.3445669	0.07290441	3.51E-06
CAAGT	C	0.18	-0.3548584	0.0728656	1.81E-06
G	A	0.18	-0.3566298	0.07275876	1.57E-06
C	T	0.18	-0.3561234	0.07282419	1.65E-06
A	C	0.18	-0.3566298	0.07275876	1.57E-06
C	G	0.18	-0.3566298	0.07275876	1.57E-06
G	A	0.18	-0.3561234	0.07282419	1.65E-06
C	T	0.18	-0.3566298	0.07275876	1.57E-06
C	T	0.18	-0.3566298	0.07275876	1.57E-06
G	A	0.18	-0.3566298	0.07275876	1.57E-06
T	C	0.18	-0.3541923	0.07281851	1.86E-06
A	G	0.18	-0.3603517	0.07293891	1.30E-06
T	C	0.18	-0.3570075	0.07290404	1.60E-06
T	A	0.18	-0.3566298	0.07275876	1.57E-06
G	A	0.18	-0.3566298	0.07275876	1.57E-06
G	A	0.07	-0.5140672	0.1042758	1.37E-06
G	T	0.18	-0.3566298	0.07275876	1.57E-06
C	T	0.18	-0.3566298	0.07275876	1.57E-06
G	C	0.02	-0.8887522	0.1932601	6.22E-06
C	T	0.01	-1.372916	0.2624985	3.25E-07
C	G	0.01	-1.429344	0.2614041	9.97E-08
C	T	0.02	-0.94413	0.2073919	7.64E-06
G	A	0.07	-0.484131	0.1061395	7.34E-06
A	C	0.17	0.3267141	0.07155079	7.19E-06
A	C	0.18	0.3253451	0.07066227	6.07E-06
G	A	0.18	0.3241354	0.06983491	5.14E-06
A	G	0.17	0.3220246	0.07134108	9.05E-06
A	G	0.18	0.3186859	0.07080358	9.57E-06
T	C	0.17	0.3220246	0.07134108	9.05E-06
G	GTTC	0.06	-0.5001168	0.1090372	6.56E-06
C	T	0.05	-0.5320675	0.1121518	3.23E-06
A	G	0.05	-0.5572491	0.1208047	5.84E-06
G	C	0.14	0.3442778	0.07582724	8.06E-06
A	G	0.14	0.3454743	0.07595566	7.77E-06
A	G	0.14	0.3454743	0.07595566	7.77E-06
C	CT	0.02	-1.219434	0.2194938	6.39E-08
T	C	0.02	-0.8084027	0.1759431	6.33E-06
C	G	0.17	-0.3211327	0.0712996	9.45E-06
T	C	0.08	-0.4611827	0.1019006	8.59E-06

G	T	0.13	0.3636788	0.07904021	6.15E-06
A	T	0.13	0.4277319	0.07962721	1.62E-07
C	T	0.14	0.3714595	0.07744502	2.55E-06
C	T	0.13	0.3742881	0.07823495	2.69E-06
A	G	0.14	0.3702517	0.07735794	2.67E-06
T	C	0.14	0.3763594	0.07744644	1.90E-06
T	A	0.14	0.3714595	0.07744502	2.55E-06
C	T	0.13	0.3659261	0.07841696	4.60E-06
C	G	0.14	0.3714595	0.07744502	2.55E-06
C	T	0.14	0.3632493	0.07762166	4.33E-06
A	G	0.13	0.3653343	0.0788086	5.27E-06
C	A	0.14	0.3714595	0.07744502	2.55E-06
TC	T	0.14	0.3758224	0.07755962	2.03E-06
A	G	0.14	0.3714595	0.07744502	2.55E-06
G	GCAAA	0.13	0.3983246	0.08215635	2.00E-06
C	T	0.01	-1.157522	0.2445007	3.38E-06
G	A	0.02	-0.7916126	0.1760376	9.75E-06
A	G	0.49	0.2242447	0.04902261	6.93E-06
G	A	0.02	-1.002044	0.2226414	9.58E-06
G	C	0.02	-1.002044	0.2226414	9.58E-06
A	G	0.02	-1.002044	0.2226414	9.58E-06
G	GC	0.01	-1.126301	0.2443785	5.95E-06
A	G	0.01	-1.126301	0.2443785	5.95E-06
A	G	0.01	-1.126301	0.2443785	5.95E-06
A	T	0.02	-0.9578195	0.1929071	1.16E-06
A	G	0.03	0.7181985	0.1533105	4.23E-06
G	A	0.01	-1.202308	0.2586853	5.00E-06
G	T	0.09	-0.4240775	0.09363796	8.47E-06
T	G	0.09	-0.4240775	0.09363796	8.47E-06
G	T	0.13	-0.3572923	0.07881885	8.32E-06
C	T	0.09	-0.4355822	0.09423838	5.60E-06
G	T	0.09	-0.4240775	0.09363796	8.47E-06
C	A	0.13	-0.3572923	0.07881885	8.32E-06
C	T	0.13	-0.3572923	0.07881885	8.32E-06
T	C	0.13	-0.3572923	0.07881885	8.32E-06
C	T	0.13	-0.3572923	0.07881885	8.32E-06
T	C	0.13	-0.3572923	0.07881885	8.32E-06
G	A	0.13	-0.3560422	0.07896164	9.24E-06
C	T	0.13	-0.3572923	0.07881885	8.32E-06
G	C	0.13	-0.3572923	0.07881885	8.32E-06
G	A	0.09	-0.4240775	0.09363796	8.47E-06
G	A	0.13	-0.3572923	0.07881885	8.32E-06
G	T	0.13	-0.3727965	0.07932506	3.96E-06
A	T	0.09	-0.4240775	0.09363796	8.47E-06
G	A	0.09	-0.4240775	0.09363796	8.47E-06
AAAC	A	0.09	-0.4221189	0.09392923	9.87E-06
G	A	0.09	-0.4589513	0.09424874	1.82E-06
G	A	0.02	-1.069221	0.2207026	2.04E-06
G	A	0.02	-1.069221	0.2207026	2.04E-06
A	G	0.02	-1.069221	0.2207026	2.04E-06

G	A	0.02	-1.069221	0.2207026	2.04E-06
A	G	0.02	-0.944204	0.2082708	8.30E-06
T	C	0.03	-0.8059062	0.1645893	1.60E-06
G	T	0.01	-1.039312	0.229052	8.16E-06
C	T	0.02	-1.029415	0.2131584	2.19E-06
GCAAA	G	0.01	-1.232081	0.268337	6.42E-06
C	CAATGAATA	0.01	-1.032075	0.214799	2.45E-06
C	T	0.01	-1.202161	0.2561056	4.06E-06
T	C	0.01	-1.202161	0.2561056	4.06E-06
A	C	0.01	-1.202161	0.2561056	4.06E-06
C	CA	0.01	-0.8968504	0.1951333	6.29E-06
A	G	0.14	0.3673357	0.07866956	4.54E-06
A	G	0.17	0.361186	0.0701188	4.78E-07
T	C	0.16	0.392641	0.07122034	7.94E-08
C	T	0.2	0.3445934	0.06673357	4.50E-07
A	G	0.2	0.3359335	0.06708611	9.51E-07
G	T	0.03	-0.7609143	0.1669697	7.48E-06
C	A	0.03	-0.7609143	0.1669697	7.48E-06
G	A	0.03	-0.7609143	0.1669697	7.48E-06
A	G	0.03	-0.7609143	0.1669697	7.48E-06
T	C	0.03	-0.7609143	0.1669697	7.48E-06
T	G	0.03	-0.7609143	0.1669697	7.48E-06
T	G	0.03	-0.7609143	0.1669697	7.48E-06
TCACACACACA	T	0.02	-0.9353466	0.2070103	8.87E-06
G	A	0.08	-0.4316749	0.09580878	9.38E-06
C	A	0.06	-0.526709	0.1144576	6.14E-06
C	T	0.04	-0.6086709	0.1325861	6.44E-06
A	AG	0.02	-0.9365429	0.1968619	3.04E-06
T	C	0.24	0.2526877	0.05539865	7.34E-06
G	A	0.02	-0.9700275	0.206628	4.05E-06
C	T	0.03	-0.807581	0.1690247	2.77E-06
T	C	0.21	0.3271797	0.06508094	8.66E-07
CACACACAT	C	0.21	0.3272326	0.0650604	8.56E-07
A	C	0.25	0.2970056	0.06144261	2.14E-06
G	A	0.23	-0.2877113	0.06313487	7.49E-06
G	A	0.04	-0.6971063	0.1408083	1.24E-06
G	GGGCTTTGGT	0.33	0.2608429	0.05713264	7.21E-06
T	TTTTA	0.47	0.2170337	0.0478439	8.21E-06
C	A	0.02	0.7118257	0.1572277	8.54E-06
C	CT	0.12	-0.3839231	0.08233971	4.68E-06
T	C	0.16	0.3379939	0.06658206	6.86E-07
T	C	0.15	0.3216892	0.07158753	9.89E-06
C	T	0.15	0.3340539	0.0704086	3.23E-06
A	G	0.16	0.3256764	0.06945832	4.16E-06
C	T	0.16	0.3130232	0.0687571	7.64E-06
G	A	0.15	0.3325128	0.07163664	5.14E-06
A	C	0.15	0.3189174	0.07049755	8.67E-06
T	C	0.15	0.3236347	0.07168608	9.03E-06
C	T	0.15	0.3236347	0.07168608	9.03E-06
T	A	0.15	0.3236347	0.07168608	9.03E-06

T	C	0.15	0.3403984	0.0714836	2.99E-06
A	C	0.15	0.3328439	0.07039678	3.48E-06
C	T	0.15	0.3441247	0.07031414	1.62E-06
G	A	0.34	-0.2484383	0.05515936	9.46E-06
A	G	0.07	-0.4844189	0.1076517	9.63E-06
C	CA	0.06	-0.5556069	0.1128337	1.41E-06
T	A	0.05	-0.636836	0.1209529	2.75E-07
C	G	0.05	-0.5651105	0.1170078	2.19E-06
G	A	0.05	-0.6204684	0.120272	4.61E-07
A	G	0.05	-0.6204684	0.120272	4.61E-07
A	G	0.05	-0.5651105	0.1170078	2.19E-06
G	A	0.05	-0.5651105	0.1170078	2.19E-06
A	G	0.05	-0.6175022	0.121021	6.05E-07
G	A	0.05	-0.6175022	0.121021	6.05E-07
G	T	0.05	-0.6367576	0.1217546	3.26E-07
C	CT	0.05	-0.5791005	0.1183728	1.64E-06
A	C	0.05	-0.5791005	0.1183728	1.64E-06
T	A	0.05	-0.6827325	0.1286671	2.24E-07
G	A	0.05	-0.5791005	0.1183728	1.64E-06
C	T	0.05	-0.5791005	0.1183728	1.64E-06
A	T	0.04	-0.6185654	0.1329714	4.91E-06
A	C	0.05	-0.5791005	0.1183728	1.64E-06
A	G	0.05	-0.5791005	0.1183728	1.64E-06
C	T	0.05	-0.584172	0.1230663	3.20E-06
T	C	0.05	-0.5791005	0.1183728	1.64E-06
A	AAAT	0.05	-0.5791005	0.1183728	1.64E-06
C	A	0.05	-0.6367576	0.1217546	3.26E-07
G	C	0.05	-0.5791005	0.1183728	1.64E-06
G	C	0.05	-0.6367576	0.1217546	3.26E-07
C	CG	0.05	-0.5791005	0.1183728	1.64E-06
G	T	0.05	-0.6246816	0.1227106	6.41E-07
A	G	0.05	-0.5791005	0.1183728	1.64E-06
A	G	0.05	-0.6076377	0.1237305	1.50E-06
C	T	0.05	-0.628742	0.1208489	3.73E-07
C	T	0.05	-0.5725049	0.1175529	1.81E-06
T	TG	0.05	-0.5725049	0.1175529	1.81E-06
C	T	0.05	-0.5725049	0.1175529	1.81E-06
T	TG	0.05	-0.5725049	0.1175529	1.81E-06
G	A	0.05	-0.628742	0.1208489	3.73E-07
A	C	0.05	-0.5725049	0.1175529	1.81E-06
A	ACACT	0.05	-0.5429156	0.1190489	7.38E-06
A	G	0.05	-0.5429156	0.1190489	7.38E-06
A	G	0.05	-0.5987516	0.1225058	1.67E-06
G	A	0.05	-0.5987516	0.1225058	1.67E-06
T	C	0.05	-0.5429156	0.1190489	7.38E-06
C	T	0.05	-0.5429156	0.1190489	7.38E-06
C	T	0.05	-0.6151215	0.1233897	1.06E-06
T	C	0.05	-0.5315556	0.1179441	9.34E-06
C	G	0.05	-0.5315556	0.1179441	9.34E-06
T	G	0.05	-0.5855022	0.1212983	2.21E-06

G	A	0.05	-0.5315556	0.1179441	9.34E-06
C	T	0.05	-0.5464942	0.1186169	6.00E-06
T	G	0.05	-0.6021522	0.1220325	1.34E-06
G	A	0.05	-0.6021522	0.1220325	1.34E-06
T	C	0.05	-0.5855022	0.1212983	2.21E-06
C	T	0.05	-0.5464942	0.1186169	6.00E-06
A	G	0.05	-0.5420035	0.1197739	8.62E-06
CT	C	0.05	-0.5446507	0.1174742	5.26E-06
CT	C	0.05	-0.5406483	0.1171095	5.75E-06
C	G	0.05	-0.5406483	0.1171095	5.75E-06
G	A	0.05	-0.5406483	0.1171095	5.75E-06
G	A	0.05	-0.5664814	0.1176801	2.35E-06
C	T	0.05	-0.5941853	0.1203635	1.33E-06
G	A	0.05	-0.5941853	0.1203635	1.33E-06
C	G	0.05	-0.5406483	0.1171095	5.75E-06
CCACCACCACCAT	C	0.05	-0.5771102	0.1198435	2.33E-06
TC	T	0.06	-0.5325181	0.1166349	7.21E-06
C	A	0.05	-0.6248418	0.12272	6.38E-07
TCTC	T	0.05	-0.5850468	0.1198471	1.72E-06
CGGAA	C	0.05	-0.486809	0.1079759	9.27E-06
C	T	0.05	-0.5794904	0.1196447	2.05E-06
A	G	0.06	-0.513401	0.1133023	8.39E-06
A	G	0.05	-0.5673503	0.1182189	2.52E-06
C	T	0.05	-0.6194546	0.1222757	7.21E-07
C	G	0.05	-0.5673503	0.1182189	2.52E-06
T	C	0.05	-0.5788198	0.1218301	3.14E-06
C	CTTT	0.06	-0.5396953	0.1184891	7.56E-06
ACGAGTAAAGTGCAT	A	0.05	-0.5460888	0.1199182	7.60E-06
T	A	0.05	-0.585469	0.1190242	1.45E-06
A	G	0.05	-0.585469	0.1190242	1.45E-06
GC	G	0.05	-0.585469	0.1190242	1.45E-06
G	C	0.05	-0.585469	0.1190242	1.45E-06
C	T	0.06	-0.5334178	0.1158617	6.08E-06
C	T	0.06	-0.5334178	0.1158617	6.08E-06
C	A	0.06	-0.5334178	0.1158617	6.08E-06
C	T	0.05	-0.585469	0.1190242	1.45E-06
A	C	0.06	-0.5334178	0.1158617	6.08E-06
G	C	0.06	-0.5334178	0.1158617	6.08E-06
A	C	0.05	-0.585469	0.1190242	1.45E-06
A	T	0.05	-0.585469	0.1190242	1.45E-06
T	G	0.06	-0.5361524	0.1148732	4.58E-06
C	T	0.06	-0.5334178	0.1158617	6.08E-06
T	C	0.06	-0.5334178	0.1158617	6.08E-06
C	T	0.06	-0.5334178	0.1158617	6.08E-06
G	A	0.06	-0.5334178	0.1158617	6.08E-06
A	G	0.05	-0.5795946	0.1198363	2.12E-06
T	C	0.05	-0.5795946	0.1198363	2.12E-06
A	G	0.05	-0.585469	0.1190242	1.45E-06
C	T	0.06	-0.5334178	0.1158617	6.08E-06
G	A	0.06	-0.5334178	0.1158617	6.08E-06

C	T	0.06	-0.5334178	0.1158617	6.08E-06
T	C	0.06	-0.5334178	0.1158617	6.08E-06
A	C	0.06	-0.5447758	0.1140071	2.77E-06
T	C	0.06	-0.5437428	0.114374	3.09E-06
C	CT	0.06	-0.5447758	0.1140071	2.77E-06
A	C	0.05	-0.5875246	0.1170703	9.04E-07
C	G	0.05	-0.5872245	0.1168349	8.72E-07
C	A	0.05	-0.5732836	0.1168024	1.52E-06
C	A	0.06	-0.5447758	0.1140071	2.77E-06
G	A	0.05	-0.5957882	0.1170027	6.36E-07
T	C	0.05	-0.5957882	0.1170027	6.36E-07
A	G	0.06	-0.5447758	0.1140071	2.77E-06
T	G	0.06	-0.5447758	0.1140071	2.77E-06
C	T	0.06	-0.5447758	0.1140071	2.77E-06
G	A	0.05	-0.6199285	0.1204605	4.90E-07
C	T	0.05	-0.6004972	0.1177368	6.12E-07
T	C	0.05	-0.5748066	0.1176076	1.67E-06
G	T	0.06	-0.5557895	0.1146288	2.00E-06
A	G	0.05	-0.5957882	0.1170027	6.36E-07
T	C	0.05	-0.57629	0.1167711	1.34E-06
C	A	0.06	-0.5447758	0.1140071	2.77E-06
G	A	0.06	-0.5447758	0.1140071	2.77E-06
A	AACACACC	0.05	-0.5545765	0.1176094	3.69E-06
T	C	0.05	-0.5957882	0.1170027	6.36E-07
C	G	0.06	-0.5447758	0.1140071	2.77E-06
T	C	0.05	-0.5957882	0.1170027	6.36E-07
A	G	0.06	-0.5447758	0.1140071	2.77E-06
A	G	0.05	-0.5957882	0.1170027	6.36E-07
A	G	0.05	-0.5957882	0.1170027	6.36E-07
A	G	0.06	-0.5606998	0.1157856	2.06E-06
C	A	0.05	-0.5957882	0.1170027	6.36E-07
C	G	0.19	0.3203592	0.06737868	3.09E-06
G	A	0.19	0.3117943	0.06788007	6.38E-06
C	T	0.21	0.2946965	0.06219553	3.33E-06
A	G	0.06	-0.5081338	0.1048806	2.04E-06
C	G	0.06	-0.5081338	0.1048806	2.04E-06
A	G	0.07	-0.5222726	0.09626883	1.24E-07
G	T	0.07	-0.4480597	0.09539711	4.01E-06
C	T	0.08	-0.4611142	0.09486778	1.90E-06
C	T	0.08	-0.4611142	0.09486778	1.90E-06
C	T	0.07	-0.4540782	0.09543626	3.04E-06
GA	G	0.08	-0.4643077	0.09518353	1.75E-06
A	G	0.08	-0.4266031	0.09329839	7.00E-06
T	C	0.08	-0.4266031	0.09329839	7.00E-06
A	G	0.08	-0.4483375	0.09441815	3.17E-06
T	A	0.08	-0.4342335	0.09490779	6.91E-06
A	G	0.08	-0.4266031	0.09329839	7.00E-06
C	T	0.08	-0.4266031	0.09329839	7.00E-06
G	C	0.08	-0.4266031	0.09329839	7.00E-06
T	C	0.08	-0.4266031	0.09329839	7.00E-06

G	A	0.08	-0.4266031	0.09329839	7.00E-06
G	C	0.08	-0.4266031	0.09329839	7.00E-06
T	TA	0.23	-0.3084789	0.06683164	5.77E-06
G	A	0.2	-0.3084296	0.06428854	2.54E-06
G	A	0.46	-0.249286	0.05533888	9.43E-06
C	T	0.45	-0.2512188	0.05544569	8.40E-06
C	CT	0.12	-0.404767	0.07978448	6.96E-07
T	A	0.02	0.939229	0.2028568	5.42E-06
G	A	0.11	0.3706419	0.08116947	7.19E-06
A	C	0.25	0.292339	0.06341718	5.93E-06
C	CT	0.05	-0.5297207	0.1178513	9.84E-06
C	CTCCTTCCT	0.03	0.7367893	0.1614958	7.32E-06
C	T	0.01	1.200076	0.2580139	4.93E-06
A	T	0.01	1.216269	0.2478354	1.52E-06
T	TACACACACACAC	0.04	0.5452437	0.1172449	4.94E-06
C	T	0.3	0.2624983	0.05833672	9.64E-06
A	G	0.28	-0.2644972	0.05687715	4.95E-06
G	C	0.28	-0.2744519	0.05751694	2.85E-06
G	C	0.28	-0.2669419	0.05775686	5.62E-06
C	A	0.28	-0.2647137	0.05739693	5.87E-06
T	C	0.28	-0.2597507	0.05744101	8.74E-06
T	C	0.28	-0.2597507	0.05744101	8.74E-06
G	A	0.28	-0.2647137	0.05739693	5.87E-06
A	G	0.35	-0.2531508	0.05414946	4.43E-06
C	G	0.34	-0.2544115	0.05435756	4.32E-06
G	A	0.28	-0.2647137	0.05739693	5.87E-06
C	T	0.02	0.8830522	0.1924158	6.49E-06
G	A	0.42	-0.2522364	0.05295794	2.97E-06
C	T	0.03	-0.7153442	0.1541584	5.17E-06
T	TAGAG	0.42	-0.2397402	0.05274439	7.89E-06
C	T	0.02	-0.9651546	0.1805023	1.83E-07
G	GAAT	0.15	-0.3894505	0.07851036	1.19E-06
T	C	0.23	0.2891523	0.06427663	9.66E-06
CAAATAAAT	C	0.01	-1.073303	0.2385876	9.66E-06
T	C	0.09	0.4147052	0.0914767	8.29E-06
G	T	0.49	0.232505	0.05151001	9.04E-06
A	G	0.05	0.6047728	0.1235889	1.62E-06
G	C	0.05	0.6047728	0.1235889	1.62E-06
A	G	0.05	0.6047728	0.1235889	1.62E-06
T	C	0.05	0.5814717	0.1202331	2.12E-06
C	T	0.07	0.4637256	0.1030218	9.55E-06
A	G	0.07	0.4637256	0.1030218	9.55E-06
G	A	0.26	0.2925637	0.0613358	2.87E-06
G	A	0.1	0.3885685	0.08572491	8.32E-06
C	CGTGT	0.02	0.8002877	0.1726457	5.27E-06
T	A	0.13	-0.35265	0.07661299	6.09E-06
T	C	0.07	0.4953317	0.1042202	3.10E-06
T	C	0.01	1.073858	0.2376757	8.87E-06
A	G	0.01	1.073858	0.2376757	8.87E-06
C	T	0.03	-0.6631969	0.1455836	7.52E-06

T	C	0.03	-0.6895616	0.1454806	3.29E-06
C	T	0.03	-0.7166852	0.1548115	5.42E-06
C	T	0.04	-0.7164646	0.1381716	4.04E-07
G	C	0.03	0.6453035	0.1401459	6.05E-06
C	CT	0.03	0.8116104	0.152082	1.92E-07
C	CACACATAT	0.01	-1.15503	0.2449527	3.68E-06
T	G	0.03	-0.7059258	0.1471417	2.53E-06
T	C	0.06	0.5019079	0.109927	7.19E-06
G	A	0.04	0.6323857	0.1327273	2.94E-06
T	G	0.04	0.5942157	0.129902	6.92E-06
G	T	0.04	0.6109364	0.132759	6.13E-06
G	A	0.04	0.6296134	0.1336916	3.78E-06
A	AC	0.02	0.9047031	0.200235	8.87E-06
A	G	0.05	0.5961815	0.1239532	2.39E-06
C	T	0.42	-0.2470433	0.05283703	4.40E-06
C	T	0.45	0.2338558	0.05111025	6.89E-06
G	A	0.03	-0.7176678	0.1446731	1.18E-06
A	G	0.02	-0.9061171	0.1937673	4.39E-06
C	CAGAT	0.05	0.5927322	0.1275506	5.01E-06
G	C	0.35	-0.2461848	0.05357659	6.31E-06
T	C	0.35	-0.2541007	0.05376259	3.50E-06
G	C	0.02	0.9802763	0.2159952	8.11E-06
A	AT	0.02	1.057983	0.2157365	1.54E-06
T	C	0.03	0.6700433	0.1472888	7.74E-06
G	A	0.03	0.6700433	0.1472888	7.74E-06
C	A	0.36	-0.2551642	0.0536072	3.00E-06
C	T	0.34	-0.2568296	0.05583548	6.18E-06
G	GA	0.01	1.112431	0.2460378	8.74E-06
GT	G	0.14	0.3543711	0.07862064	9.30E-06
G	GA	0.35	0.2521569	0.05347865	3.68E-06
T	C	0.36	0.2448196	0.0529478	5.55E-06
AG	A	0.35	0.2538666	0.05291772	2.53E-06
G	C	0.36	0.2448196	0.0529478	5.55E-06
G	C	0.15	-0.331857	0.07298827	7.82E-06
C	A	0.16	-0.3518375	0.07167712	1.51E-06
T	C	0.15	-0.3351371	0.07325586	6.90E-06
A	T	0.15	-0.3398712	0.07383981	6.10E-06
C	T	0.15	-0.3411314	0.0740139	5.93E-06
T	A	0.15	-0.3394835	0.07349737	5.67E-06
C	A	0.15	-0.3449962	0.07417807	4.92E-06
A	T	0.15	-0.3426534	0.07348333	4.66E-06
C	T	0.15	-0.3344093	0.07401092	8.86E-06
A	C	0.15	-0.3354898	0.07334648	6.93E-06
C	T	0.15	-0.3366292	0.07449836	8.85E-06
A	G	0.15	-0.3369731	0.07330623	6.26E-06
T	G	0.15	-0.3326885	0.07399417	9.76E-06
A	G	0.15	-0.3334398	0.07402374	9.41E-06
A	C	0.15	-0.3366292	0.07449836	8.85E-06
T	C	0.15	-0.3334728	0.07336499	7.87E-06
T	C	0.15	-0.3313732	0.07371734	9.81E-06

A	G	0.15	-0.3324958	0.07271514	6.98E-06
G	C	0.15	-0.3333871	0.07373776	8.75E-06
T	C	0.16	-0.3239758	0.07175618	8.99E-06
T	C	0.15	-0.3317525	0.07339083	8.78E-06
T	C	0.15	-0.3360279	0.07432106	8.75E-06
C	G	0.15	-0.3392469	0.07511857	8.95E-06
T	C	0.15	-0.3270223	0.0723648	8.83E-06
G	T	0.03	-0.6245879	0.1386683	9.43E-06
G	C	0.03	-0.6714888	0.1465127	6.66E-06
A	G	0.06	-0.4721094	0.1013495	4.76E-06
G	C	0.04	-0.6287079	0.1368663	6.35E-06
A	G	0.03	-0.6853887	0.1493954	6.52E-06
T	C	0.08	-0.4366114	0.08424998	4.10E-07
T	G	0.07	-0.457927	0.09891656	5.42E-06
GA	G	0.03	-0.7218055	0.1547704	4.64E-06
T	C	0.06	-0.5214581	0.1038764	8.94E-07
T	C	0.09	-0.4074986	0.09014377	8.77E-06
A	G	0.03	-0.6684087	0.1480775	9.03E-06
A	G	0.03	-0.7398605	0.1477215	9.45E-07
C	T	0.04	-0.6605058	0.1389321	3.08E-06
A	G	0.04	-0.6144881	0.1342388	6.82E-06
C	G	0.03	-0.6686604	0.1480309	8.91E-06
T	C	0.03	-0.6877017	0.1477575	4.85E-06
T	A	0.03	-0.6919674	0.1451457	2.90E-06
A	T	0.03	-0.6919674	0.1451457	2.90E-06
C	G	0.04	-0.6605058	0.1389321	3.08E-06
C	CT	0.04	-0.5973876	0.119374	9.63E-07
G	A	0.04	-0.652542	0.135715	2.41E-06
G	A	0.04	-0.652542	0.135715	2.41E-06
C	T	0.04	-0.6605058	0.1389321	3.08E-06
A	G	0.04	-0.6605058	0.1389321	3.08E-06
A	G	0.04	-0.6586724	0.1367125	2.30E-06
AGGAGTTC	A	0.03	-0.6994451	0.1532015	7.20E-06
CACACACACAT	C	0.01	1.084886	0.2380529	7.46E-06
G	A	0.01	1.249548	0.2608151	2.61E-06
C	T	0.01	1.249548	0.2608151	2.61E-06
G	A	0.02	-0.90412	0.1851389	1.70E-06
G	C	0.02	-0.8100685	0.1745012	5.12E-06
A	T	0.18	0.3087348	0.0666818	5.40E-06
A	C	0.09	0.4635958	0.09589284	2.13E-06
C	T	0.01	-0.9914227	0.2205615	9.81E-06
G	A	0.03	0.701901	0.1521327	5.81E-06
C	T	0.04	0.6271974	0.1353784	5.33E-06
G	A	0.04	0.6271974	0.1353784	5.33E-06
T	G	0.4	-0.1731428	0.02889964	6.67E-09
C	T	0.38	-0.1709171	0.0286568	7.71E-09
T	C	0.39	-0.1729507	0.02894928	7.31E-09
C	G	0.43	0.2473023	0.05284831	4.41E-06
G	A	0.42	0.2392302	0.05318091	9.84E-06
C	T	0.42	0.2392302	0.05318091	9.84E-06

T	C	0.42	0.2392302	0.05318091	9.84E-06
TATA	T	0.42	0.2455535	0.05330352	6.11E-06
A	G	0.42	0.2465758	0.05325019	5.50E-06
G	A	0.42	0.2428719	0.05320684	7.36E-06
G	A	0.37	0.2597448	0.05483961	3.41E-06
C	T	0.37	0.2502696	0.05489924	7.55E-06
G	A	0.37	0.2502696	0.05489924	7.55E-06
C	CA	0.36	0.278824	0.05566677	9.69E-07
C	T	0.38	0.2548231	0.05452999	4.54E-06
A	G	0.38	0.2527172	0.05461864	5.58E-06
C	T	0.36	0.2604577	0.05440418	2.71E-06
C	A	0.36	0.2491578	0.05461539	7.44E-06
A	T	0.37	0.2550674	0.05465543	4.67E-06
G	A	0.36	0.2525037	0.05446935	5.37E-06
A	G	0.37	0.2510609	0.05424587	5.55E-06
A	C	0.46	0.2365003	0.05240114	9.22E-06
AT	A	0.35	-0.2796002	0.05865164	2.97E-06
A	G	0.22	0.3205986	0.06658709	2.39E-06
A	G	0.22	0.3140997	0.06657672	3.71E-06
G	A	0.22	0.3205986	0.06658709	2.39E-06
C	T	0.22	0.3205986	0.06658709	2.39E-06
G	T	0.22	0.3176051	0.06664502	2.99E-06
C	T	0.21	0.3237086	0.06633727	1.77E-06
C	G	0.21	0.3091197	0.06780753	7.55E-06
AAGT	A	0.22	0.3053459	0.06671698	6.98E-06
T	C	0.22	0.3030004	0.06707665	9.06E-06
T	C	0.21	0.3061189	0.06708577	7.41E-06
C	T	0.21	0.3103789	0.06745855	6.26E-06
G	A	0.21	0.3038826	0.06753858	9.79E-06
T	C	0.21	0.3032303	0.06712266	9.05E-06
G	A	0.23	0.2918557	0.06447979	8.71E-06
A	AATAGTT	0.22	0.2976556	0.06570992	8.57E-06
C	T	0.22	0.3036663	0.06676043	7.90E-06
A	G	0.04	0.6184776	0.1343314	6.18E-06
G	A	0.04	0.6184776	0.1343314	6.18E-06
CACACACACAT	C	0.07	0.466551	0.1025349	7.84E-06
A	AACACAC	0.2	0.3996435	0.07337148	1.15E-07
T	A	0.01	1.044521	0.2292767	7.65E-06
C	G	0.22	0.3137632	0.06859532	7.06E-06
C	T	0.2	0.3154368	0.06910587	7.36E-06
T	C	0.14	0.3648704	0.07996356	7.41E-06
C	G	0.22	0.3116213	0.06827196	7.37E-06
G	A	0.22	0.3250225	0.06856209	3.35E-06
TA	T	0.08	0.4513044	0.09793653	6.07E-06
G	A	0.07	0.4936293	0.1087271	8.20E-06
ATTTT	A	0.24	0.2904608	0.06134971	3.44E-06
A	C	0.2	-0.3276382	0.06940727	3.67E-06
A	G	0.2	-0.3160128	0.0694826	7.91E-06
GTTCT	G	0.2	-0.3140433	0.06763453	5.19E-06
T	C	0.2	-0.313889	0.06955597	9.24E-06

G	A	0.2	-0.315321	0.06993238	9.39E-06
G	A	0.2	-0.3181596	0.06948334	6.91E-06
G	A	0.2	-0.3200144	0.06797293	3.88E-06
CA	C	0.24	-0.2839477	0.06275997	8.78E-06
T	C	0.05	-0.5480836	0.1216772	9.58E-06
C	T	0.06	-0.5554923	0.1190147	4.66E-06
G	GGAAA	0.08	0.4694841	0.1013289	5.43E-06
C	T	0.08	0.444454	0.09761942	7.75E-06
C	T	0.01	1.142298	0.2520588	8.50E-06
T	C	0.09	-0.4347945	0.09438416	6.11E-06
T	C	0.01	-1.032158	0.227375	8.22E-06
G	T	0.05	-0.5316413	0.1158161	6.57E-06
C	T	0.42	0.2616235	0.05499599	3.11E-06
T	C	0.01	1.108395	0.2394463	5.53E-06
A	G	0.14	0.4146927	0.08039621	4.75E-07
C	T	0.14	0.4146927	0.08039621	4.75E-07
T	C	0.14	0.4347518	0.08011302	1.27E-07
G	T	0.17	0.3298419	0.07307203	9.19E-06
C	T	0.06	0.5156431	0.1140466	8.90E-06
G	C	0.06	0.5154305	0.1135094	8.17E-06
G	A	0.06	0.5154305	0.1135094	8.17E-06
G	A	0.06	0.5154305	0.1135094	8.17E-06
A	AC	0.47	0.2697695	0.05501127	1.58E-06
GTA	G	0.09	0.4208126	0.09130039	6.04E-06
T	C	0.1	0.4038755	0.08741618	5.75E-06
G	A	0.1	0.4038755	0.08741618	5.75E-06
C	G	0.1	0.4038755	0.08741618	5.75E-06
C	T	0.1	0.4038755	0.08741618	5.75E-06
A	G	0.1	0.4160653	0.08793463	3.49E-06
G	A	0.1	0.4160653	0.08793463	3.49E-06
G	A	0.1	0.3953918	0.08787632	9.79E-06
G	A	0.1	0.4038755	0.08741618	5.75E-06
A	AG	0.1	0.4038755	0.08741618	5.75E-06
A	G	0.1	0.4038755	0.08741618	5.75E-06
G	A	0.1	0.4038755	0.08741618	5.75E-06
A	G	0.1	0.4070586	0.0871911	4.64E-06
G	A	0.1	0.416213	0.08732856	2.98E-06
T	C	0.1	0.4070586	0.0871911	4.64E-06
G	A	0.38	-0.2781667	0.05722053	1.93E-06
T	C	0.38	-0.2834907	0.05708119	1.18E-06
T	C	0.37	-0.2790941	0.05726686	1.82E-06
G	GA	0.44	-0.2493435	0.05446226	6.93E-06
G	A	0.08	0.494865	0.1066638	5.28E-06
G	C	0.07	0.4881353	0.1077913	8.62E-06
C	A	0.08	0.4537153	0.1005275	9.21E-06
C	G	0.08	0.5054274	0.1061579	3.05E-06
A	C	0.08	0.5217026	0.1052106	1.23E-06
C	G	0.08	0.5217026	0.1052106	1.23E-06
A	G	0.08	0.4537153	0.1005275	9.21E-06
A	G	0.05	0.5859802	0.1269513	5.87E-06

TACACACACAC	T	0.01	1.17937	0.2520524	4.42E-06
C	A	0.03	0.7383054	0.1603917	6.21E-06
C	T	0.03	0.7144184	0.1558472	6.75E-06
G	T	0.01	1.144011	0.2534616	9.21E-06
C	T	0.15	0.3549637	0.07588952	4.46E-06
T	C	0.16	0.3461666	0.07403571	4.49E-06
C	T	0.01	-1.073	0.2275609	3.76E-06
AGG	A	0.05	0.5956137	0.1300312	6.86E-06
TTC	T	0.29	-0.2672574	0.05885092	8.15E-06
G	A	0.39	0.248112	0.05476578	8.55E-06
A	G	0.1	0.4318432	0.0891043	2.07E-06
G	A	0.1	0.4285722	0.08959126	2.76E-06
G	A	0.01	-0.5278133	0.1172106	9.47E-06
A	T	0.04	-0.2737753	0.05784715	3.40E-06
G	A	0.05	-0.2486618	0.05468793	7.81E-06
C	T	0.01	-0.4650442	0.1034337	9.77E-06
T	TACACAC	0.02	-0.3919236	0.08210624	2.82E-06
A	ACC	0.03	-0.3079042	0.06534208	3.73E-06
C	T	0.36	0.1243448	0.02709247	6.47E-06
G	T	0.06	-0.2209312	0.04876341	8.39E-06
T	G	0.05	-0.2433392	0.0541692	9.93E-06
CAGGTA	C	0.06	-0.2209312	0.04876341	8.39E-06
GAATT	G	0.04	-0.2754569	0.06039998	7.36E-06
G	T	0.02	-0.3822081	0.07916328	2.20E-06
GT	G	0.04	-0.2699996	0.0572174	3.62E-06
T	TACACACACACAC	0.17	-0.1473932	0.03216397	6.67E-06
T	C	0.06	-0.2284849	0.04877557	4.23E-06
T	C	0.05	-0.2402897	0.05281569	7.72E-06
C	CGTGT	0.01	-0.5313169	0.1150221	5.67E-06
G	A	0.02	-0.4349695	0.09207488	3.54E-06
G	A	0.02	-0.3979224	0.08797225	8.67E-06
T	C	0.02	-0.441033	0.09746631	8.61E-06
C	A	0.02	-0.4703384	0.09654065	1.79E-06
G	A	0.02	-0.4703384	0.09654065	1.79E-06
A	G	0.03	-0.3375546	0.07318201	5.84E-06
A	G	0.03	-0.3223222	0.0705208	7.04E-06
T	C	0.03	-0.3375546	0.07318201	5.84E-06
A	G	0.27	-0.1198763	0.02514045	2.89E-06
CT	C	0.03	-0.3595183	0.07062695	6.39E-07
C	G	0.03	-0.379015	0.0729363	3.83E-07
G	A	0.03	-0.3656162	0.07228516	7.46E-07
C	T	0.03	-0.3656162	0.07228516	7.46E-07
A	G	0.03	-0.3656162	0.07228516	7.46E-07
A	G	0.03	-0.3595183	0.07062695	6.39E-07
T	C	0.03	-0.3467669	0.07149707	1.98E-06
A	G	0.02	-0.3676909	0.07936198	5.33E-06
TACAC	T	0.01	-0.5117426	0.09995657	5.55E-07
G	A	0.12	-0.1620871	0.03598237	9.41E-06
TA	T	0.02	-0.3967698	0.08751906	8.29E-06
T	C	0.04	-0.269614	0.05779749	4.62E-06

T	AGAAAGGCAAGAAAC	0.05	-0.2894306	0.05408766	1.79E-07
G	T	0.06	-0.2317588	0.05016157	5.64E-06
G	A	0.05	-0.2916952	0.05730046	6.38E-07
G	C	0.04	-0.3043293	0.05885548	4.33E-07
T	C	0.02	-0.4370193	0.09720677	9.78E-06
G	A	0.02	-0.4370193	0.09720677	9.78E-06
T	A	0.02	-0.4370193	0.09720677	9.78E-06
G	A	0.01	-0.4636275	0.1010704	6.54E-06
A	G	0.12	-0.1692125	0.03285001	4.77E-07
C	T	0.03	-0.320772	0.06899429	4.96E-06
T	G	0.02	-0.4226153	0.09180345	6.08E-06
T	C	0.02	-0.4226153	0.09180345	6.08E-06
T	C	0.02	-0.4226153	0.09180345	6.08E-06
T	C	0.02	-0.4226153	0.09180345	6.08E-06
C	T	0.02	-0.4226153	0.09180345	6.08E-06
C	T	0.02	-0.4226153	0.09180345	6.08E-06
C	T	0.3	0.116451	0.02435535	2.72E-06
A	G	0.02	-0.3928807	0.08697454	8.90E-06
GA	G	0.01	-0.5322842	0.1133789	4.04E-06
C	T	0.03	-0.3149103	0.06857721	6.40E-06
T	TGCGC	0.08	-0.2427457	0.04466815	1.18E-07
G	C	0.15	-0.1494475	0.03257525	6.52E-06
T	G	0.18	-0.1483151	0.03117044	3.03E-06
T	C	0.01	-0.4928431	0.1078846	7.11E-06
T	C	0.01	-0.5276744	0.1139586	5.39E-06
G	A	0.01	-0.5352766	0.1183057	8.62E-06
C	T	0.01	-0.4828196	0.09940492	1.92E-06
CA	C	0.12	-0.1686263	0.03544243	3.03E-06
G	A	0.22	-0.1467805	0.0326385	9.72E-06
G	C	0.42	-0.1193787	0.02645852	9.11E-06
C	T	0.12	0.1877215	0.04071516	5.89E-06
C	A	0.49	0.1272868	0.02615999	1.85E-06
C	T	0.5	-0.1258254	0.02595077	2.00E-06
T	A	0.49	0.1216353	0.0259967	4.34E-06
A	G	0.5	0.1259667	0.02588287	1.84E-06
AATG	A	0.49	-0.1180333	0.02612783	8.89E-06
C	T	0.2	0.1507905	0.03309931	7.52E-06
A	G	0.32	0.1302649	0.02898166	9.83E-06
T	A	0.32	0.1318406	0.02918408	8.89E-06
C	A	0.32	0.1333306	0.02912533	6.82E-06
C	A	0.42	0.1254426	0.02768944	8.40E-06
A	T	0.35	0.1412221	0.02823437	9.75E-07
C	T	0.42	0.1254426	0.02768944	8.40E-06
G	A	0.04	-0.3408148	0.07538886	8.77E-06
G	A	0.03	-0.3487854	0.07647287	7.35E-06
A	G	0.04	-0.3411746	0.07220888	3.52E-06
T	C	0.47	-0.1186086	0.02632218	9.35E-06
T	TTGTTGTTGTTG	0.06	-0.2609704	0.05550261	3.91E-06
G	T	0.12	0.1812679	0.04035428	9.95E-06
GA	G	0.24	0.1227009	0.02720952	9.21E-06

GTAAA	G	0.04	0.3064016	0.06761357	8.36E-06
G	A	0.32	-0.128144	0.02822651	8.06E-06
G	A	0.32	-0.128144	0.02822651	8.06E-06
C	T	0.33	-0.1327454	0.02816976	3.73E-06
A	T	0.33	-0.1299262	0.02828406	6.35E-06
G	A	0.33	-0.1299262	0.02828406	6.35E-06
G	A	0.33	-0.1305985	0.0282368	5.52E-06
A	C	0.33	-0.1316212	0.02816925	4.46E-06
C	T	0.33	-0.1316212	0.02816925	4.46E-06
C	T	0.33	-0.1310397	0.02814517	4.81E-06
C	T	0.34	-0.1426272	0.02742849	3.76E-07
AACAC	A	0.03	-0.3579638	0.07822506	6.87E-06
GT	G	0.13	0.1749255	0.03882442	9.37E-06
A	G	0.13	0.1740743	0.03874548	9.91E-06
T	C	0.13	0.1735676	0.03844826	9.02E-06
G	T	0.13	0.1744274	0.03836972	7.85E-06
G	A	0.13	0.1744274	0.03836972	7.85E-06
G	A	0.13	0.1744274	0.03836972	7.85E-06
C	G	0.13	0.1744274	0.03836972	7.85E-06
A	G	0.13	0.1744274	0.03836972	7.85E-06
G	A	0.13	0.1744274	0.03836972	7.85E-06
C	T	0.13	0.1744274	0.03836972	7.85E-06
A	G	0.13	0.1744274	0.03836972	7.85E-06
G	A	0.13	0.1744274	0.03836972	7.85E-06
A	G	0.13	0.1744274	0.03836972	7.85E-06
T	C	0.13	0.1744274	0.03836972	7.85E-06
C	T	0.13	0.1744274	0.03836972	7.85E-06
G	A	0.07	0.2434858	0.05385596	8.75E-06
C	A	0.05	0.2653605	0.05809249	7.12E-06
C	A	0.06	0.266901	0.05799446	6.12E-06
G	A	0.05	0.2725126	0.05860317	4.94E-06
A	G	0.06	0.2715168	0.05752843	3.61E-06
AAATAAT	A	0.08	0.2247215	0.04936368	7.63E-06
GA	G	0.35	-0.1239412	0.02675523	5.34E-06
A	T	0.02	-0.386321	0.08594809	9.82E-06
G	A	0.02	-0.386321	0.08594809	9.82E-06
A	G	0.02	-0.386321	0.08594809	9.82E-06
A	T	0.02	-0.3888555	0.08579049	8.32E-06
A	T	0.1	-0.2359346	0.04608814	5.56E-07
C	T	0.1	-0.2359346	0.04608814	5.56E-07
C	T	0.1	-0.2359346	0.04608814	5.56E-07
C	T	0.1	-0.2359346	0.04608814	5.56E-07
C	T	0.1	-0.2359346	0.04608814	5.56E-07
A	C	0.24	0.1343679	0.02987745	9.72E-06
C	T	0.03	-0.3564677	0.07820426	7.43E-06
A	G	0.03	-0.3564677	0.07820426	7.43E-06
G	A	0.09	0.2113444	0.04651472	7.93E-06
A	G	0.25	-0.1386508	0.03035301	7.12E-06
G	A	0.36	0.1254852	0.02711771	5.46E-06
G	A	0.36	0.1254852	0.02711771	5.46E-06

C	T	0.36	0.1254852	0.02711771	5.46E-06
A	T	0.36	0.124141	0.02706947	6.57E-06
A	C	0.36	0.1264842	0.02708388	4.51E-06
C	T	0.36	0.124141	0.02706947	6.57E-06
C	T	0.36	0.1249055	0.02701149	5.55E-06
T	A	0.36	0.1285868	0.02703756	3.06E-06
C	G	0.36	0.1285868	0.02703756	3.06E-06
T	A	0.36	0.124141	0.02706947	6.57E-06
C	A	0.36	0.124141	0.02706947	6.57E-06
T	C	0.46	-0.1340785	0.02721279	1.39E-06
C	T	0.45	-0.1293211	0.02727131	3.26E-06
A	G	0.46	-0.1294154	0.0272454	3.14E-06
G	A	0.46	-0.123156	0.02709624	7.87E-06
G	GTACA	0.46	-0.1227405	0.02714531	8.73E-06
T	C	0.46	-0.1294154	0.0272454	3.14E-06
ACAG	A	0.35	0.123493	0.02680406	5.98E-06
C	G	0.4	0.1241646	0.0276036	9.68E-06
T	G	0.4	0.1254426	0.02757536	7.74E-06
G	A	0.4	0.1239225	0.02747584	9.18E-06
G	C	0.4	0.125158	0.02762194	8.38E-06
G	A	0.4	0.1242549	0.02763359	9.75E-06
T	G	0.38	0.1277785	0.02760067	5.41E-06
C	T	0.39	0.1255612	0.02776033	8.68E-06
A	G	0.39	0.1254203	0.02762329	8.04E-06
A	G	0.37	0.1297381	0.0271521	2.76E-06
A	G	0.39	0.1267934	0.02762007	6.44E-06
C	T	0.39	0.1263992	0.02765625	7.04E-06
T	C	0.39	0.1241722	0.02759379	9.60E-06
G	A	0.39	0.1247339	0.02759037	8.76E-06
G	C	0.38	0.1230252	0.02738038	9.89E-06
G	A	0.36	0.1264821	0.02728713	5.28E-06
T	C	0.38	0.1243627	0.02763565	9.60E-06
A	G	0.39	0.1270004	0.02772961	6.75E-06
C	T	0.39	0.1287375	0.02750771	4.32E-06
G	C	0.36	0.137215	0.02695573	6.39E-07
C	T	0.48	-0.1205077	0.0265851	8.31E-06
G	A	0.48	-0.1180194	0.02625898	9.84E-06
G	C	0.49	-0.1235166	0.02611702	3.45E-06
G	A	0.29	0.1291413	0.02849301	8.33E-06
C	T	0.03	-0.3627632	0.07803039	4.96E-06
TTTTG	T	0.02	-0.4211957	0.09114853	5.62E-06
A	G	0.08	-0.2460297	0.04777801	4.81E-07
A	G	0.34	-0.1478023	0.02825273	3.23E-07
C	A	0.3	-0.1451982	0.02924527	1.16E-06
G	C	0.3	-0.1434966	0.02923817	1.52E-06
A	G	0.34	-0.1522386	0.02820856	1.42E-07
A	T	0.3	-0.1399677	0.02934141	2.86E-06
C	A	0.3	-0.1399677	0.02934141	2.86E-06
G	C	0.3	-0.1437039	0.02923263	1.46E-06
G	T	0.3	-0.1465173	0.02921461	9.15E-07

C	A	0.29	-0.1376266	0.02940118	4.30E-06
G	A	0.3	-0.1454331	0.0292181	1.09E-06
T	C	0.3	-0.1451982	0.02924527	1.16E-06
C	T	0.34	-0.1522386	0.02820856	1.42E-07
A	T	0.3	-0.1451225	0.02923612	1.17E-06
A	ACCT	0.32	-0.1391788	0.028621	1.87E-06
C	T	0.3	-0.1399677	0.02934141	2.86E-06
A	C	0.3	-0.1451982	0.02924527	1.16E-06
T	C	0.3	-0.1438971	0.02923072	1.41E-06
T	C	0.3	-0.1451982	0.02924527	1.16E-06
C	A	0.3	-0.1451982	0.02924527	1.16E-06
A	G	0.3	-0.1434331	0.02924771	1.54E-06
T	C	0.3	-0.1451982	0.02924527	1.16E-06
C	T	0.34	-0.1522386	0.02820856	1.42E-07
T	A	0.3	-0.1451982	0.02924527	1.16E-06
T	C	0.3	-0.1451982	0.02924527	1.16E-06
A	G	0.3	-0.1451982	0.02924527	1.16E-06
A	G	0.3	-0.1451982	0.02924527	1.16E-06
G	A	0.3	-0.1424562	0.02925845	1.82E-06
C	T	0.3	-0.1451982	0.02924527	1.16E-06
T	C	0.3	-0.1450328	0.02923369	1.18E-06
T	A	0.3	-0.1422675	0.02924568	1.86E-06
G	GT	0.3	-0.145088	0.02922967	1.17E-06
T	G	0.3	-0.1467904	0.02921043	8.72E-07
T	A	0.3	-0.148512	0.02918804	6.46E-07
A	G	0.29	-0.1479388	0.02905211	6.34E-07
T	G	0.3	-0.1451982	0.02924527	1.16E-06
T	A	0.3	-0.1451982	0.02924527	1.16E-06
T	G	0.3	-0.1471343	0.02918111	8.05E-07
C	T	0.3	-0.1451982	0.02924527	1.16E-06
A	G	0.3	-0.1451982	0.02924527	1.16E-06
C	CCCTTCCTTCCTT	0.07	0.2512097	0.05229065	2.45E-06
G	T	0.5	-0.1224612	0.02661282	6.13E-06
T	C	0.5	-0.1315758	0.0264869	1.15E-06
G	A	0.5	0.1254112	0.02659014	3.66E-06
C	G	0.5	-0.1289716	0.02649302	1.82E-06
G	A	0.5	-0.1262874	0.026398	2.69E-06
T	C	0.47	-0.1305669	0.02558339	6.00E-07
T	A	0.44	-0.1199876	0.02538825	3.50E-06
G	A	0.5	-0.1285392	0.02638759	1.80E-06
A	G	0.5	-0.1238278	0.02642926	4.22E-06
T	C	0.48	-0.1209305	0.02651442	7.34E-06
A	ACT	0.49	-0.1308194	0.02660136	1.45E-06
G	A	0.49	-0.1235169	0.02659045	5.05E-06
A	G	0.48	-0.1259415	0.02642429	2.92E-06
G	A	0.5	0.1238576	0.0261575	3.36E-06
G	A	0.5	0.120196	0.02627819	6.93E-06
G	T	0.5	0.1177466	0.02609402	9.09E-06
C	T	0.03	-0.3778216	0.08253357	6.82E-06
GA	G	0.28	-0.1413452	0.03049201	5.27E-06

C	T	0.45	-0.1199097	0.02608511	6.26E-06
T	C	0.43	0.1316856	0.02646204	1.10E-06
T	A	0.34	-0.1220949	0.02713487	9.62E-06
C	T	0.34	-0.1261376	0.02695452	4.32E-06
A	G	0.34	-0.1294139	0.02697634	2.53E-06
A	G	0.34	-0.1268944	0.02701998	4.01E-06
G	A	0.34	-0.1315274	0.0269057	1.66E-06
C	T	0.34	-0.1309704	0.02692453	1.86E-06
G	A	0.34	-0.1292407	0.02691649	2.48E-06
A	G	0.34	-0.1309704	0.02692453	1.86E-06
A	G	0.34	-0.1271821	0.02684584	3.33E-06
T	C	0.34	-0.1329647	0.02677858	1.16E-06
C	T	0.1	0.2068628	0.04469423	5.44E-06
CAG	C	0.1	0.2068628	0.04469423	5.44E-06
G	GC	0.1	0.2068628	0.04469423	5.44E-06
A	G	0.1	0.2068628	0.04469423	5.44E-06
G	T	0.1	0.2068628	0.04469423	5.44E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
A	G	0.1	0.2050371	0.04432447	5.50E-06
G	A	0.1	0.2050371	0.04432447	5.50E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
G	A	0.1	0.2090674	0.04436915	3.74E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
C	T	0.1	0.2050371	0.04432447	5.50E-06
C	T	0.09	0.2054691	0.04486784	6.77E-06
T	C	0.1	0.2069585	0.04366139	3.29E-06
T	C	0.1	0.2069585	0.04366139	3.29E-06
G	A	0.1	0.2019577	0.04439216	7.73E-06
C	T	0.1	0.1982705	0.04400651	9.37E-06
A	G	0.1	0.2018605	0.04385213	6.09E-06
T	G	0.12	0.1866736	0.04140299	9.24E-06
G	A	0.36	-0.1323872	0.02775579	2.87E-06
A	G	0.36	-0.1273528	0.02777655	6.60E-06
C	G	0.08	0.2225199	0.04769171	4.60E-06
A	G	0.42	-0.1124891	0.02489301	8.84E-06
G	A	0.05	0.5852958	0.1255168	4.70E-06
A	G	0.03	0.7613671	0.1664056	6.94E-06
GGTGT	G	0.3	0.2962025	0.05713708	4.11E-07
G	A	0.34	0.2520739	0.05451367	5.59E-06
A	T	0.49	-0.2525204	0.05310821	3.10E-06
T	C	0.48	-0.2500653	0.05321667	3.99E-06
C	T	0.03	0.7349395	0.1616108	7.85E-06
C	T	0.02	0.9725297	0.2086094	4.72E-06
T	C	0.02	0.9725297	0.2086094	4.72E-06
C	A	0.03	-0.7193266	0.1456537	1.33E-06
C	T	0.03	-0.6668653	0.1447467	6.03E-06
CAGAG	C	0.15	0.3479432	0.07740404	9.88E-06
C	T	0.1	0.4183021	0.09013343	5.19E-06

C	T	0.01	1.31964	0.2620554	8.39E-07
C	A	0.01	1.31964	0.2620554	8.39E-07
A	G	0.01	1.31964	0.2620554	8.39E-07
G	C	0.01	1.31964	0.2620554	8.39E-07
A	C	0.01	1.31964	0.2620554	8.39E-07
G	A	0.01	1.31964	0.2620554	8.39E-07
C	T	0.01	1.31964	0.2620554	8.39E-07
G	A	0.01	1.31964	0.2620554	8.39E-07
CGTCT	C	0.01	1.31964	0.2620554	8.39E-07
G	A	0.01	1.31964	0.2620554	8.39E-07
C	T	0.01	1.31964	0.2620554	8.39E-07
C	T	0.01	1.250429	0.2520716	1.20E-06
G	C	0.04	0.62569	0.1371128	7.32E-06
G	A	0.03	0.7008768	0.1499467	4.47E-06
C	T	0.01	1.126306	0.2489052	8.66E-06
G	C	0.13	0.3615341	0.08042075	9.86E-06
C	T	0.13	0.3615341	0.08042075	9.86E-06
C	T	0.01	1.288064	0.2616347	1.43E-06
C	T	0.12	0.3898726	0.08354494	4.62E-06
C	T	0.12	0.3819937	0.08351508	6.98E-06
C	G	0.12	0.3802974	0.08172164	4.90E-06
A	T	0.13	0.3810973	0.08196841	4.99E-06
A	G	0.13	0.3604638	0.07948962	8.30E-06
T	A	0.12	0.3998601	0.082864	2.24E-06
A	G	0.13	0.3787634	0.07968954	3.13E-06
G	A	0.12	0.4086367	0.08500825	2.44E-06
A	G	0.12	0.390647	0.08261992	3.50E-06
G	A	0.12	0.3978782	0.08134298	1.65E-06
C	G	0.14	0.3983141	0.07815076	6.27E-07
C	T	0.12	0.4050002	0.08197958	1.32E-06
C	T	0.11	0.3973182	0.086859	6.97E-06
C	G	0.07	-0.4948762	0.1096704	9.16E-06
G	A	0.07	-0.5123152	0.1106818	5.48E-06
T	G	0.05	0.5720938	0.1268058	9.19E-06
C	CGGGGA	0.25	-0.2879517	0.06360842	8.59E-06
T	C	0.3	-0.2775532	0.06088915	7.48E-06
T	C	0.29	-0.2850808	0.06138266	5.11E-06
T	C	0.17	-0.3396194	0.070877	2.62E-06
C	T	0.01	1.103133	0.2420507	7.51E-06
T	C	0.33	0.1149324	0.0249165	5.84E-06
A	C	0.45	0.1116911	0.02482697	9.65E-06
T	TC	0.15	0.1626623	0.03600494	8.88E-06
T	C	0.16	0.1515356	0.03276935	5.54E-06
T	C	0.02	0.4043739	0.0836984	2.16E-06
AACAC	A	0.02	0.386075	0.08583028	9.68E-06
A	G	0.06	0.2511404	0.05171416	1.93E-06
T	C	0.07	0.2303144	0.05055723	7.52E-06
T	C	0.07	0.2362387	0.05030873	4.02E-06
A	AACACACACAC	0.02	0.4111653	0.08713919	3.63E-06
C	G	0.41	0.1167416	0.02468348	3.45E-06

T	G	0.02	0.4729631	0.09979752	3.30E-06
C	T	0.02	0.4648623	0.09981708	4.78E-06
C	G	0.02	0.4648623	0.09981708	4.78E-06
C	T	0.01	0.4857714	0.1070249	8.10E-06
C	T	0.15	0.152368	0.03367718	8.63E-06
C	T	0.15	0.1558105	0.03371283	5.61E-06
CAGACAGAT	C	0.01	0.5058432	0.1119241	8.81E-06
G	A	0.01	0.6008959	0.122293	1.48E-06
G	A	0.21	0.138094	0.03020664	7.00E-06
G	A	0.02	0.4500314	0.09849751	7.09E-06
G	A	0.02	0.409935	0.08765888	4.39E-06
G	A	0.04	0.2897935	0.06200479	4.44E-06
C	A	0.03	0.3499432	0.07498422	4.58E-06
A	C	0.03	0.3499432	0.07498422	4.58E-06
A	T	0.03	0.3694579	0.07581168	1.78E-06
A	G	0.03	0.3774973	0.07479953	7.87E-07
C	T	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
C	G	0.03	0.3774973	0.07479953	7.87E-07
G	GA	0.03	0.3774973	0.07479953	7.87E-07
T	G	0.03	0.3774973	0.07479953	7.87E-07
G	A	0.03	0.3774973	0.07479953	7.87E-07
C	T	0.03	0.3774973	0.07479953	7.87E-07
A	C	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3964887	0.07835662	7.39E-07
A	G	0.03	0.4044787	0.07715929	3.06E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
G	A	0.03	0.3774973	0.07479953	7.87E-07
G	A	0.03	0.3774973	0.07479953	7.87E-07
C	T	0.03	0.3934366	0.07552863	3.60E-07
C	T	0.03	0.3774973	0.07479953	7.87E-07
C	G	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
C	T	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
T	C	0.03	0.3774973	0.07479953	7.87E-07
A	G	0.03	0.3774973	0.07479953	7.87E-07
A	T	0.03	0.448737	0.07911087	3.49E-08
G	A	0.03	0.4536683	0.07795975	1.62E-08
C	T	0.03	0.3774973	0.07479953	7.87E-07
A	G	0.03	0.3694579	0.07581168	1.78E-06
G	A	0.03	0.3862559	0.0766189	8.08E-07
G	A	0.02	0.4058452	0.08711801	4.75E-06
GTAT	G	0.02	0.4202808	0.09258297	8.07E-06
A	G	0.39	0.1180253	0.02512916	4.00E-06
G	A	0.39	0.1239206	0.02508132	1.30E-06
G	A	0.39	0.1223633	0.02515475	1.86E-06
G	A	0.4	0.1261119	0.02509124	8.69E-07

C	CTT	0.15	-0.1889603	0.0377405	9.52E-07
C	T	0.33	-0.1128081	0.0249427	8.69E-06
G	A	0.4	0.1098707	0.02433651	9.00E-06
C	T	0.04	0.2639511	0.0575825	6.63E-06
T	GTGTGTGTGTGTGTG	0.07	0.2442607	0.04747136	4.90E-07
T	C	0.02	0.3590131	0.07824859	6.51E-06
C	T	0.02	0.4707239	0.09991379	3.75E-06
C	T	0.24	-0.132312	0.02836204	4.62E-06
G	T	0.01	0.5613826	0.1120398	9.35E-07
A	G	0.27	0.1327089	0.02829663	4.13E-06
T	C	0.27	0.1294119	0.0282083	6.52E-06
C	T	0.27	0.1327089	0.02829663	4.13E-06
T	C	0.27	0.1327089	0.02829663	4.13E-06
G	T	0.27	0.1310902	0.02840792	5.79E-06
G	A	0.33	-0.1208063	0.02594881	4.82E-06
T	C	0.01	0.5501181	0.1154087	2.91E-06
T	C	0.01	0.5501181	0.1154087	2.91E-06
A	AATTT	0.01	0.5587651	0.1187489	3.85E-06
A	G	0.11	0.1826071	0.03868086	3.59E-06
C	T	0.06	0.2448134	0.05220079	4.13E-06
C	T	0.38	0.116469	0.02523959	5.79E-06
TCACACACACACA	T	0.11	0.197003	0.04093159	2.35E-06
AACACACACAC	A	0.06	0.2395543	0.05319718	9.47E-06
T	TCAG	0.1	0.202128	0.041943	2.29E-06
A	AAAGG	0.01	0.5512949	0.1150531	2.60E-06
G	A	0.1	0.1983272	0.04203364	3.63E-06
C	T	0.04	0.2598143	0.05678538	6.89E-06
GGT	G	0.02	0.4352127	0.09515552	6.94E-06
C	T	0.1	0.4633618	0.0964215	2.51E-06
T	TA	0.03	-0.6941623	0.1531357	8.50E-06
C	T	0.25	-0.2801883	0.06186955	8.66E-06
C	A	0.02	-0.985102	0.186959	2.80E-07
T	G	0.02	-0.9794901	0.1818677	1.57E-07
C	T	0.04	-0.721917	0.1492042	2.16E-06
C	T	0.04	-0.7357224	0.1474734	1.07E-06
C	T	0.41	-0.2653229	0.05724676	5.42E-06
GTTTGTTC	G	0.41	-0.2619548	0.05743138	7.51E-06
C	T	0.41	-0.264416	0.05733035	6.00E-06
C	T	0.4	-0.2591639	0.05724434	8.71E-06
G	A	0.41	-0.2612764	0.0574048	7.84E-06
C	T	0.41	-0.2662547	0.05723209	5.02E-06
T	G	0.4	-0.2687421	0.05705663	3.87E-06
G	T	0.41	-0.264416	0.05733035	6.00E-06
T	A	0.41	-0.2615855	0.05717403	7.06E-06
C	CT	0.41	-0.2612764	0.0574048	7.84E-06
T	C	0.41	-0.2621437	0.05723369	6.91E-06
A	T	0.41	-0.2683673	0.0573019	4.36E-06
C	T	0.41	-0.2748955	0.05676316	2.11E-06
A	G	0.41	-0.2638058	0.05713834	5.87E-06
A	G	0.41	-0.2721563	0.05723455	3.16E-06

AAT	A	0.41	-0.2675515	0.05745323	4.91E-06
G	A	0.41	-0.2699938	0.05735082	3.91E-06
A	T	0.41	-0.2638587	0.05749262	6.63E-06
G	A	0.07	0.4902466	0.1083118	8.75E-06
G	T	0.02	-0.9120699	0.1990017	6.82E-06
C	T	0.02	-0.9120699	0.1990017	6.82E-06
A	G	0.48	-0.2577617	0.0551833	4.61E-06
G	A	0.09	-0.4301174	0.09451559	7.86E-06
T	G	0.09	-0.4301174	0.09451559	7.86E-06
A	T	0.4	0.2542989	0.05527776	6.32E-06
CGTGTGT	C	0.02	-1.065621	0.224554	3.30E-06
C	G	0.03	-0.7147457	0.158373	9.27E-06
G	A	0.03	-0.7147457	0.158373	9.27E-06
G	GGGGT	0.03	-0.7697593	0.1701552	8.85E-06
C	T	0.13	-0.3784274	0.08119348	4.83E-06
T	C	0.14	-0.3665303	0.08038714	7.56E-06
G	A	0.13	-0.3763263	0.08257427	7.64E-06
A	G	0.01	-1.224203	0.2719086	9.72E-06
T	G	0.02	-0.9603435	0.2114035	8.15E-06
T	C	0.24	0.3063734	0.0652901	4.19E-06
A	G	0.24	0.3063734	0.0652901	4.19E-06
A	C	0.24	0.3035866	0.06576561	5.89E-06
TA	T	0.24	0.3144243	0.06584901	2.89E-06
TATAAAGCA	T	0.24	0.3154899	0.06602628	2.84E-06
T	C	0.24	0.3027523	0.0656605	6.03E-06
T	C	0.24	0.3027523	0.0656605	6.03E-06
C	T	0.23	0.3054401	0.06556102	4.87E-06
C	T	0.03	-0.7395136	0.1633304	8.70E-06
A	AAC	0.13	-0.4100318	0.08929085	6.55E-06
GA	G	0.03	-0.6843936	0.1467291	4.75E-06
G	C	0.15	0.3601793	0.07946736	8.52E-06
A	G	0.04	-0.6058335	0.13446	9.58E-06
G	A	0.06	-0.5140185	0.111147	5.67E-06
G	A	0.02	-0.8490116	0.1847913	6.49E-06
G	A	0.02	-0.8795472	0.1877852	4.36E-06
T	G	0.02	-0.8588867	0.1847499	5.09E-06
G	T	0.02	-0.9299501	0.1961428	3.36E-06
C	T	0.03	-0.799241	0.1761048	8.30E-06
C	T	0.03	-0.799241	0.1761048	8.30E-06
G	T	0.02	-0.8865267	0.1874196	3.53E-06
TTTTATTATTATT,	A	0.02	-0.8657089	0.189392	7.19E-06
T	G	0.02	-0.8733629	0.1842879	3.39E-06
G	T	0.02	-0.8733629	0.1842879	3.39E-06
G	A	0.02	-0.8733629	0.1842879	3.39E-06
A	G	0.02	-0.8733629	0.1842879	3.39E-06
C	T	0.02	-0.8733629	0.1842879	3.39E-06
AATCTC	A	0.02	-0.8733629	0.1842879	3.39E-06
C	T	0.03	-0.799241	0.1761048	8.30E-06
TC	T	0.02	-0.9939673	0.2204551	9.45E-06
G	A	0.01	-1.107735	0.2394932	5.66E-06

A	T	0.44	-0.2476566	0.05489388	9.34E-06
C	T	0.44	-0.2475152	0.05493671	9.59E-06
T	G	0.06	-0.540011	0.1185653	7.73E-06
T	TA	0.29	-0.2727552	0.05983601	7.60E-06
G	C	0.3	-0.2698543	0.05914332	7.46E-06
G	A	0.01	-1.151634	0.2452491	4.13E-06
G	A	0.21	-0.3061549	0.06773163	8.99E-06
T	G	0.23	0.3272406	0.06798939	2.42E-06
A	G	0.24	0.3142481	0.06667518	3.82E-06
T	G	0.23	0.3037369	0.06697649	8.43E-06
C	T	0.23	0.3084835	0.06702633	6.26E-06
A	G	0.24	0.304835	0.06721954	8.43E-06
A	G	0.02	-1.02046	0.2261078	9.27E-06
G	C	0.04	-0.6551534	0.1401221	4.52E-06
G	A	0.48	-0.2576322	0.05546538	5.18E-06
TG	T	0.48	-0.257662	0.05522849	4.73E-06
T	G	0.48	-0.2549322	0.0551431	5.71E-06
T	C	0.48	-0.260667	0.05518935	3.65E-06
A	T	0.48	-0.2550161	0.05498731	5.35E-06
T	C	0.48	-0.2550238	0.05496356	5.30E-06
C	T	0.48	-0.2566769	0.05531115	5.28E-06
A	G	0.48	-0.2566769	0.05531115	5.28E-06
G	A	0.48	-0.2566769	0.05531115	5.28E-06
A	G	0.48	-0.2646933	0.05505628	2.48E-06
T	G	0.02	-1.003239	0.2151603	4.79E-06
A	C	0.41	0.2514853	0.05551937	8.62E-06
A	C	0.03	-0.7571453	0.1628426	5.08E-06
G	A	0.03	-0.7524117	0.1589143	3.46E-06
G	A	0.04	-0.6768257	0.1454338	4.98E-06
G	A	0.04	-0.6768257	0.1454338	4.98E-06
G	A	0.28	-0.1340814	0.02955921	8.20E-06
G	A	0.29	-0.1410226	0.02937683	2.49E-06
T	C	0.29	-0.1428675	0.02939904	1.90E-06
C	T	0.29	-0.1422357	0.02938175	2.07E-06
C	T	0.29	-0.1410769	0.02939369	2.50E-06
C	T	0.29	-0.1412371	0.02942598	2.50E-06
G	A	0.29	-0.1427953	0.02920238	1.65E-06
AG	A	0.29	-0.1475662	0.02953465	1.00E-06
C	T	0.29	-0.1453547	0.02941685	1.30E-06
G	T	0.31	-0.1297687	0.02851945	7.70E-06
GCCTC	G	0.31	-0.1344339	0.02837637	3.33E-06
G	A	0.31	-0.1342558	0.02840642	3.50E-06
C	A	0.32	0.1227187	0.02722361	9.28E-06
A	AAT	0.01	-0.5438156	0.1186168	6.61E-06
ATTAC	A	0.32	0.1291073	0.02816255	6.62E-06
T	A	0.05	-0.2608312	0.05571182	4.28E-06
T	A	0.06	-0.2462342	0.05466488	9.42E-06
G	T	0.06	-0.2462342	0.05466488	9.42E-06
G	GT	0.04	-0.2816472	0.06205763	8.11E-06
C	T	0.06	-0.258708	0.05528109	4.32E-06

C	CT	0.32	-0.1274608	0.0272011	4.20E-06
T	TA	0.14	0.1830923	0.03771393	1.94E-06
G	A	0.14	0.1886677	0.0375388	8.69E-07
A	G	0.1	0.2070856	0.04452138	4.91E-06
A	T	0.09	0.2079247	0.04575619	7.91E-06
C	T	0.09	0.2079247	0.04575619	7.91E-06
CT	C	0.25	-0.1324914	0.02936912	9.14E-06
T	C	0.28	-0.1332689	0.02918294	7.16E-06
T	C	0.28	-0.1328754	0.02917326	7.55E-06
G	A	0.28	-0.1328754	0.02917326	7.55E-06
T	A	0.28	-0.1328754	0.02917326	7.55E-06
G	A	0.25	-0.1384576	0.03051769	8.16E-06
T	A	0.19	-0.1553664	0.0339308	6.78E-06
C	T	0.2	-0.1568807	0.03371979	4.88E-06
G	A	0.15	-0.1689416	0.03675319	6.27E-06
A	G	0.05	-0.2511066	0.05356634	4.17E-06
C	T	0.19	-0.1525017	0.03393688	9.87E-06
A	G	0.32	-0.1297394	0.0281331	5.86E-06
A	T	0.48	0.1280151	0.02692083	3.07E-06
C	CG	0.03	-0.3575713	0.07772095	6.16E-06
C	T	0.19	0.1488587	0.03298555	9.08E-06
C	T	0.18	0.1574449	0.03315424	3.16E-06
G	T	0.03	-0.3581901	0.07708348	5.01E-06
G	A	0.03	0.3666183	0.07612999	2.33E-06
A	T	0.03	0.3612563	0.07802101	5.40E-06
A	G	0.02	-0.4774287	0.09159156	3.54E-07
C	T	0.43	0.1199371	0.02543194	3.67E-06
G	T	0.42	0.1162108	0.02561175	8.15E-06
A	G	0.34	0.1334492	0.02791189	2.73E-06
T	C	0.13	-0.1849035	0.03838051	2.30E-06
C	G	0.15	-0.1666749	0.03610597	5.74E-06
T	C	0.15	-0.167572	0.03622848	5.51E-06
C	CAGAA	0.15	-0.1624029	0.03602926	9.29E-06
A	G	0.15	-0.1621001	0.03600174	9.49E-06
C	T	0.02	-0.4361302	0.09456968	5.86E-06
ATAT	A	0.18	0.1621013	0.03592183	9.09E-06
G	A	0.36	-0.1284461	0.02643631	1.91E-06
G	AAAGAAAGAAAGAA/	0.03	-0.3205539	0.07133116	9.86E-06
G	A	0.26	0.1409036	0.03061262	6.10E-06
GACACACACAC	G	0.1	-0.2238439	0.04620533	2.04E-06
C	T	0.33	-0.1156898	0.02568201	9.41E-06
T	G	0.02	-0.4113343	0.08637361	2.97E-06
GTGAATGAA	G	0.11	-0.1857959	0.03979277	4.53E-06
G	T	0.12	-0.1972479	0.03870615	6.22E-07
G	A	0.11	-0.1857959	0.03979277	4.53E-06
G	C	0.12	-0.1972479	0.03870615	6.22E-07
G	T	0.11	-0.1857959	0.03979277	4.53E-06
T	C	0.12	-0.1779585	0.03916739	7.93E-06
C	T	0.11	-0.1882335	0.03983225	3.51E-06
C	T	0.11	-0.1857959	0.03979277	4.53E-06

A	C	0.11	-0.1802708	0.03919236	6.19E-06
C	T	0.11	-0.1855331	0.04104421	8.78E-06
C	T	0.11	-0.1855331	0.04104421	8.78E-06
A	T	0.1	-0.1835798	0.04019402	7.14E-06
C	T	0.09	-0.1883557	0.04176969	9.21E-06
GCACACACACACA	G	0.06	-0.2702325	0.05191382	3.66E-07
GA	G	0.01	-0.4935529	0.1089886	8.47E-06
CCACA	C	0.09	-0.2045369	0.04314853	3.28E-06
C	A	0.03	-0.3717379	0.07442709	1.01E-06
G	T	0.04	-0.3347626	0.06467731	4.23E-07
C	T	0.04	-0.2951254	0.0629526	4.16E-06
T	TC	0.04	-0.2951254	0.0629526	4.16E-06
G	A	0.04	-0.2835651	0.06244605	8.02E-06
A	T	0.04	-0.2972364	0.064504	5.96E-06
G	A	0.02	-0.4665436	0.07807431	7.03E-09
G	C	0.05	-0.2369527	0.0511391	5.32E-06
C	T	0.02	-0.4421703	0.07829132	3.97E-08
TGCCAGGA	T	0.05	-0.2544629	0.05504359	5.58E-06
C	T	0.24	-0.1496944	0.02768828	1.36E-07
C	T	0.24	-0.1447941	0.02781772	3.67E-07
A	G	0.25	-0.1468998	0.02750565	1.88E-07
C	T	0.25	-0.1424559	0.02761798	4.61E-07
G	A	0.25	-0.1392897	0.02775396	9.00E-07
A	G	0.25	-0.1384438	0.02756814	8.86E-07
T	C	0.24	-0.1425504	0.02779219	5.30E-07
G	GACAGAA	0.29	-0.1251135	0.02589016	2.15E-06
A	G	0.39	-0.1208017	0.02421199	1.03E-06
G	T	0.34	-0.128424	0.02515223	5.93E-07
T	C	0.39	-0.1108162	0.02411193	6.29E-06
C	G	0.39	-0.1199724	0.02414467	1.14E-06
T	C	0.39	-0.1200066	0.0241452	1.13E-06
G	C	0.39	-0.1140499	0.0242347	3.84E-06
T	C	0.39	-0.1154502	0.02425527	3.01E-06
A	G	0.39	-0.1150028	0.02438175	3.66E-06
C	T	0.38	-0.1171292	0.02439803	2.49E-06
T	G	0.39	-0.1200547	0.02433771	1.35E-06
G	C	0.37	-0.1140659	0.0246284	5.37E-06
C	A	0.38	-0.1126838	0.02456356	6.53E-06
T	A	0.33	0.1219012	0.02585644	3.69E-06
A	G	0.33	0.120979	0.02579597	4.13E-06
G	T	0.37	0.1195341	0.02581997	5.41E-06
C	A	0.33	0.1207437	0.02578194	4.25E-06
A	G	0.33	0.1271213	0.02578637	1.37E-06
C	G	0.37	-0.1185895	0.02488745	2.93E-06
G	A	0.37	-0.1145475	0.02501274	6.76E-06
C	T	0.36	0.1170254	0.02498197	4.23E-06
ATG	A	0.11	-0.1853024	0.03958243	4.29E-06
AACAC	A	0.1	-0.1803116	0.038535	4.33E-06
T	G	0.14	-0.1508814	0.03315075	7.66E-06
CCT	C	0.15	-0.1500372	0.03329564	9.34E-06

G	A	0.01	-0.5251252	0.108118	1.92E-06
C	G	0.04	0.3039162	0.06332156	2.50E-06
T	TACACAC	0.02	-0.4337866	0.09359219	5.29E-06
T	G	0.02	-0.4395939	0.09356515	3.97E-06
T	C	0.01	-0.4716146	0.1048503	9.69E-06
A	G	0.02	-0.3789446	0.08384588	8.81E-06
A	C	0.02	-0.3789446	0.08384588	8.81E-06
G	A	0.02	-0.3789446	0.08384588	8.81E-06
A	G	0.02	-0.3789446	0.08384588	8.81E-06
C	T	0.02	-0.3789446	0.08384588	8.81E-06
A	T	0.02	-0.3789446	0.08384588	8.81E-06
T	G	0.02	-0.3761095	0.08358038	9.60E-06
A	G	0.02	-0.3789446	0.08384588	8.81E-06
A	T	0.02	-0.3789446	0.08384588	8.81E-06
C	G	0.02	-0.3789446	0.08384588	8.81E-06
G	A	0.02	-0.3789446	0.08384588	8.81E-06
G	A	0.01	-0.5430993	0.119827	8.33E-06
G	C	0.02	-0.4357154	0.09573898	7.67E-06
G	GAC	0.02	-0.3780096	0.08238328	6.50E-06
GT	G	0.02	-0.3995758	0.08276719	2.20E-06
C	T	0.04	-0.2737789	0.06095653	9.97E-06
TG	T	0.04	-0.2737789	0.06095653	9.97E-06
A	ATGTGTG	0.04	-0.2741443	0.06076789	9.14E-06
G	A	0.02	-0.4129196	0.09130729	8.71E-06
A	C	0.45	-0.1068647	0.02376897	9.77E-06
G	GCA	0.04	-0.2866446	0.06003577	2.81E-06
C	T	0.1	-0.1909077	0.04188386	7.44E-06
G	A	0.3	-0.117359	0.02573727	7.38E-06
A	G	0.41	-0.1133501	0.02459526	5.94E-06
G	A	0.41	-0.1118365	0.02455501	7.56E-06
A	G	0.41	-0.1133501	0.02459526	5.94E-06
C	T	0.24	-0.1485785	0.0283092	2.97E-07
G	A	0.24	-0.1485785	0.0283092	2.97E-07
G	A	0.24	-0.1485785	0.0283092	2.97E-07
T	C	0.26	-0.1399767	0.02774619	7.94E-07
G	T	0.24	-0.1485785	0.0283092	2.97E-07
A	G	0.24	-0.1485785	0.0283092	2.97E-07
T	C	0.24	-0.148466	0.02819105	2.72E-07
C	A	0.24	-0.151186	0.02826866	1.81E-07
T	C	0.24	-0.1475851	0.02819454	3.18E-07
T	G	0.24	-0.1475851	0.02819454	3.18E-07
C	T	0.24	-0.1475851	0.02819454	3.18E-07
G	A	0.23	-0.1524114	0.02841488	1.68E-07
G	T	0.24	-0.1475851	0.02819454	3.18E-07
G	T	0.24	-0.1460485	0.02821295	4.21E-07
T	A	0.24	-0.1475851	0.02819454	3.18E-07
G	A	0.24	-0.1475851	0.02819454	3.18E-07
A	G	0.24	-0.1485785	0.0283092	2.97E-07
A	G	0.24	-0.1475851	0.02819454	3.18E-07
T	C	0.24	-0.1475851	0.02819454	3.18E-07

T	C	0.24	-0.1475851	0.02819454	3.18E-07
C	T	0.24	-0.1485785	0.0283092	2.97E-07
C	G	0.24	-0.1475851	0.02819454	3.18E-07
G	A	0.24	-0.1475851	0.02819454	3.18E-07
T	C	0.24	-0.1404918	0.02832953	1.19E-06
A	G	0.23	-0.1455623	0.02833864	5.12E-07
G	A	0.24	-0.1475851	0.02819454	3.18E-07
C	T	0.23	-0.1432655	0.02849963	8.65E-07
C	A	0.23	-0.1445478	0.02833968	6.09E-07
T	C	0.24	-0.1485785	0.0283092	2.97E-07
T	A	0.23	-0.1495503	0.02829618	2.48E-07
C	G	0.24	-0.148586	0.02817102	2.61E-07
A	AATTT	0.23	-0.1469944	0.02845516	4.44E-07
GCCATTGCAAAC	G	0.23	-0.1420561	0.02860644	1.16E-06
GCTGT	G	0.24	-0.1510215	0.0281826	1.72E-07
T	TGTG	0.24	-0.1510215	0.0281826	1.72E-07
G	A	0.24	-0.1509691	0.02817213	1.72E-07
G	A	0.23	-0.150666	0.02829611	2.04E-07
T	C	0.23	-0.1535515	0.02828841	1.22E-07
A	G	0.23	-0.1522622	0.0282843	1.52E-07
ATACAAT	A	0.23	-0.1560736	0.02839296	8.59E-08
T	A	0.23	-0.1482344	0.02831409	3.16E-07
G	C	0.23	-0.150666	0.02829611	2.04E-07
C	CA	0.23	-0.1512364	0.0287877	2.89E-07
T	G	0.23	-0.1468697	0.02839371	4.30E-07
T	C	0.24	-0.1496557	0.02818164	2.19E-07
A	C	0.23	-0.150666	0.02829611	2.04E-07
C	T	0.23	-0.150666	0.02829611	2.04E-07
G	A	0.23	-0.150666	0.02829611	2.04E-07
G	A	0.21	-0.1429493	0.03010128	3.16E-06
T	C	0.21	-0.1429493	0.03010128	3.16E-06
T	C	0.21	-0.1429493	0.03010128	3.16E-06
G	A	0.21	-0.1414627	0.03013686	4.05E-06
A	C	0.23	-0.1579557	0.02826646	5.39E-08
ATGTGTG	A	0.18	-0.1582995	0.03243299	1.72E-06
C	A	0.23	-0.1512189	0.02843084	2.10E-07
T	C	0.21	-0.1385053	0.03032671	7.15E-06
A	G	0.21	-0.1385053	0.03032671	7.15E-06
A	AT	0.2	-0.1584578	0.03069687	4.52E-07
G	A	0.23	-0.1563927	0.02863694	1.03E-07
T	TA	0.23	-0.1561767	0.02864681	1.08E-07
T	C	0.23	-0.1546841	0.02863909	1.39E-07
G	C	0.23	-0.1546841	0.02863909	1.39E-07
T	C	0.2	-0.1477888	0.0306427	2.25E-06
A	G	0.2	-0.1413271	0.0304918	5.28E-06
A	C	0.23	-0.1520735	0.02861192	2.14E-07
A	G	0.23	-0.1546841	0.02863909	1.39E-07
A	G	0.2	-0.1477888	0.0306427	2.25E-06
A	G	0.23	-0.1546841	0.02863909	1.39E-07
T	G	0.23	-0.1515965	0.02865803	2.42E-07

C	A	0.2	-0.1477888	0.0306427	2.25E-06
G	C	0.02	-0.3994412	0.08803191	8.15E-06
CT	C	0.42	0.1127108	0.02504089	9.56E-06
C	G	0.42	0.112374	0.02490048	9.07E-06
C	T	0.35	0.1173645	0.02537035	5.50E-06
C	T	0.36	0.1156843	0.02528074	6.87E-06
GCA	G	0.04	-0.322029	0.06340463	6.75E-07
G	A	0.32	0.1221457	0.02690044	8.03E-06
G	C	0.01	-0.501577	0.1077232	4.80E-06
C	T	0.19	-0.1421309	0.0312885	7.96E-06
G	A	0.02	-0.4219045	0.09342457	8.95E-06
A	G	0.02	-0.4204872	0.09297304	8.69E-06
G	A	0.02	-0.4351438	0.0961711	8.62E-06
T	G	0.45	-0.1071216	0.0237793	9.40E-06
C	T	0.1	-0.1760935	0.03920328	9.95E-06
C	T	0.02	-0.4244696	0.09336088	7.83E-06
C	T	0.01	-0.568434	0.1221112	4.83E-06
AG	A	0.33	-0.1123304	0.0249018	9.15E-06
C	T	0.33	-0.1157353	0.02490699	5.01E-06
T	C	0.33	-0.119792	0.02478849	2.15E-06
A	G	0.33	-0.1310844	0.02467626	2.17E-07
A	G	0.33	-0.1129104	0.02479883	7.60E-06
A	G	0.33	-0.1144108	0.024809	5.86E-06
A	G	0.33	-0.1163511	0.02493782	4.60E-06
A	C	0.33	-0.113092	0.02486264	7.75E-06
C	T	0.33	-0.1139046	0.0250566	7.85E-06
C	T	0.33	-0.1139046	0.0250566	7.85E-06
C	T	0.37	-0.117376	0.02351209	1.02E-06
A	G	0.37	-0.114818	0.02360162	1.85E-06
A	C	0.37	-0.117725	0.02365015	1.09E-06
A	G	0.37	-0.1176681	0.02364159	1.10E-06
A	G	0.37	-0.1149718	0.02361949	1.83E-06
C	T	0.37	-0.1149718	0.02361949	1.83E-06
A	G	0.37	-0.1112509	0.0236748	3.96E-06
T	A	0.37	-0.1059001	0.02344041	8.88E-06
G	A	0.37	-0.1158514	0.02362346	1.54E-06
G	A	0.33	-0.1197173	0.02465281	1.93E-06
T	C	0.33	-0.1218128	0.02468969	1.34E-06
A	C	0.33	-0.1203205	0.02463145	1.69E-06
C	T	0.33	-0.1197173	0.02465281	1.93E-06
C	T	0.33	-0.1116934	0.02470291	8.74E-06
A	G	0.33	-0.1191264	0.02461321	2.08E-06
G	A	0.33	-0.1197173	0.02465281	1.93E-06
G	C	0.33	-0.1154769	0.02473346	4.54E-06
G	C	0.33	-0.1112143	0.02473348	9.75E-06
G	A	0.33	-0.1197173	0.02465281	1.93E-06
A	G	0.33	-0.1209978	0.02460378	1.45E-06
TG	T	0.33	-0.1157723	0.02472322	4.26E-06
T	C	0.33	-0.1197173	0.02465281	1.93E-06
C	A	0.3	-0.1139816	0.02456276	5.16E-06

T	C	0.3	-0.1169211	0.02458339	3.06E-06
T	C	0.33	-0.1154769	0.02473346	4.54E-06
A	G	0.33	-0.1197173	0.02465281	1.93E-06
T	G	0.33	-0.1117186	0.02480616	9.45E-06
C	T	0.33	-0.11408	0.02479969	6.17E-06
T	C	0.33	-0.1179672	0.02473038	2.87E-06
TC	T	0.33	-0.1136264	0.02478582	6.62E-06
G	T	0.33	-0.1197173	0.02465281	1.93E-06
A	G	0.33	-0.1197173	0.02465281	1.93E-06
G	A	0.33	-0.1239504	0.02463178	8.44E-07
G	A	0.33	-0.1225509	0.02461481	1.09E-06
C	T	0.32	-0.1155913	0.02467677	4.23E-06
A	G	0.33	-0.1154769	0.02473346	4.54E-06
T	C	0.33	-0.1197173	0.02465281	1.93E-06
T	C	0.33	-0.1177585	0.02475809	3.05E-06
G	A	0.33	-0.1115837	0.02480203	9.64E-06
A	G	0.33	-0.1197173	0.02465281	1.93E-06
A	G	0.33	-0.1197173	0.02465281	1.93E-06
T	G	0.33	-0.1184465	0.02474629	2.66E-06
G	A	0.32	-0.1161179	0.02491499	4.71E-06
A	G	0.33	-0.1197173	0.02465281	1.93E-06
T	G	0.33	-0.1197173	0.02465281	1.93E-06
A	G	0.33	-0.1178546	0.02477416	3.04E-06
A	C	0.33	-0.1135552	0.02472616	6.38E-06
T	C	0.33	-0.1154769	0.02473346	4.54E-06
T	C	0.33	-0.1154769	0.02473346	4.54E-06
GA	G	0.33	-0.1175251	0.02464542	2.89E-06
C	G	0.33	-0.1197173	0.02465281	1.93E-06
A	G	0.33	-0.1154769	0.02473346	4.54E-06
G	GTTTTGT	0.24	-0.1397368	0.02885815	2.06E-06
A	G	0.07	-0.2220283	0.04573249	1.94E-06
C	T	0.06	-0.2372316	0.04786279	1.21E-06
C	T	0.06	-0.2372316	0.04786279	1.21E-06
A	G	0.06	-0.2366468	0.04831812	1.59E-06
C	G	0.06	-0.2372316	0.04786279	1.21E-06
T	TA	0.06	-0.2431065	0.04797462	7.13E-07
G	C	0.06	-0.2372316	0.04786279	1.21E-06
T	C	0.06	-0.2512054	0.04871105	4.63E-07
T	C	0.06	-0.2372316	0.04786279	1.21E-06
G	A	0.06	-0.2372316	0.04786279	1.21E-06
G	A	0.06	-0.2372316	0.04786279	1.21E-06
T	C	0.06	-0.2275714	0.04752919	2.64E-06
C	T	0.06	-0.2305679	0.04812447	2.60E-06
A	C	0.06	-0.2372316	0.04786279	1.21E-06
C	T	0.14	-0.1577578	0.03427708	6.11E-06
G	T	0.06	-0.2372316	0.04786279	1.21E-06
C	T	0.06	-0.2372316	0.04786279	1.21E-06
G	A	0.06	-0.2372316	0.04786279	1.21E-06
ACT	A	0.06	-0.2372316	0.04786279	1.21E-06
T	A	0.06	-0.2372316	0.04786279	1.21E-06

G	A	0.35	-0.1198852	0.02552688	4.01E-06
C	T	0.3	-0.139317	0.02659457	3.11E-07
G	A	0.06	-0.2342237	0.05211771	9.85E-06
G	A	0.02	-0.3908921	0.08620601	8.26E-06
C	T	0.01	-0.5548893	0.1157885	2.59E-06
T	G	0.06	-0.2199424	0.04836947	7.81E-06
C	T	0.06	-0.2266816	0.04999934	8.28E-06
A	C	0.03	-0.3126647	0.06914349	8.72E-06
C	T	0.25	-0.1342813	0.02751737	1.73E-06
T	G	0.03	-0.3252635	0.07132249	7.36E-06
A	G	0.26	0.3045957	0.05922199	4.97E-07
A	G	0.26	0.2747889	0.05921318	5.16E-06
G	T	0.01	-1.186206	0.248961	2.95E-06
T	A	0.07	0.4693955	0.09890341	3.21E-06
T	C	0.35	-0.2563842	0.05392124	3.08E-06
A	T	0.13	0.3448933	0.07657984	9.46E-06
C	T	0.04	-0.6098572	0.135111	9.06E-06
G	A	0.04	-0.6522882	0.1343648	1.95E-06
G	A	0.08	0.4763886	0.1024609	4.96E-06
T	C	0.24	0.2869969	0.06165182	4.84E-06
A	C	0.24	0.2849919	0.06165899	5.61E-06
T	C	0.24	0.2932566	0.06187557	3.30E-06
T	A	0.26	0.2722167	0.0591272	6.08E-06
A	G	0.24	0.2834322	0.06166184	6.28E-06
C	G	0.24	0.2864631	0.06165252	5.03E-06
C	G	0.24	0.2838159	0.0616803	6.15E-06
G	A	0.23	0.2936699	0.06240801	3.85E-06
T	G	0.24	0.2841901	0.061306	5.28E-06
G	A	0.24	0.2882963	0.06109711	3.63E-06
T	C	0.25	0.2852799	0.061643	5.46E-06
A	C	0.24	0.2913751	0.06137884	3.19E-06
G	A	0.27	0.2668513	0.05778169	5.70E-06
A	G	0.27	0.2660201	0.05797302	6.51E-06
T	C	0.27	0.2671256	0.05777831	5.58E-06
T	G	0.24	0.2841901	0.061306	5.28E-06
A	G	0.24	0.2885038	0.06108311	3.56E-06
A	G	0.27	0.2671256	0.05777831	5.58E-06
TTATAAA	T	0.24	0.2970027	0.06173489	2.38E-06
A	G	0.27	0.2696959	0.05889382	6.78E-06
C	T	0.27	0.2755464	0.05853664	3.82E-06
G	T	0.27	0.2693322	0.05872169	6.57E-06
A	G	0.27	0.2799051	0.05888799	3.10E-06
T	A	0.23	0.3029959	0.06207176	1.72E-06
A	G	0.27	0.2721321	0.05838482	4.71E-06
T	C	0.27	0.2742677	0.05828156	3.85E-06
G	A	0.24	0.2969446	0.06181303	2.46E-06
T	G	0.26	0.2676908	0.05847801	6.83E-06
C	CA	0.26	0.2944453	0.05907329	1.06E-06
C	T	0.23	0.3143424	0.06192119	6.85E-07
T	C	0.27	0.273482	0.05847951	4.39E-06

T	A	0.24	0.2938726	0.0615204	2.79E-06
C	T	0.24	0.2960037	0.06152101	2.38E-06
A	G	0.27	0.2652991	0.05830963	7.73E-06
T	G	0.27	0.2740442	0.05827426	3.90E-06
A	G	0.27	0.2720043	0.05791679	4.02E-06
A	C	0.27	0.2750145	0.05808133	3.37E-06
A	G	0.27	0.274263	0.0582799	3.85E-06
T	A	0.27	0.2750145	0.05808133	3.37E-06
A	G	0.27	0.2678065	0.05808396	5.90E-06
T	C	0.27	0.2750145	0.05808133	3.37E-06
C	T	0.27	0.2808974	0.05867747	2.66E-06
A	G	0.27	0.2750145	0.05808133	3.37E-06
T	C	0.27	0.2777851	0.05850769	3.18E-06
T	C	0.27	0.2680232	0.05835728	6.39E-06
T	C	0.27	0.2727397	0.05836063	4.46E-06
T	C	0.27	0.2729012	0.05854318	4.70E-06
A	AATT	0.27	0.2658223	0.05878686	8.74E-06
T	TA	0.27	0.2780199	0.05832994	2.92E-06
C	CATTA	0.43	0.239186	0.05066354	3.59E-06
G	A	0.02	-1.019011	0.2093615	1.84E-06
T	C	0.33	0.2516637	0.05588417	9.48E-06
G	A	0.05	-0.5538012	0.1160263	2.84E-06
C	T	0.05	-0.5538012	0.1160263	2.84E-06
T	C	0.05	-0.5538012	0.1160263	2.84E-06
C	T	0.05	-0.546247	0.1138021	2.51E-06
C	T	0.05	-0.5538012	0.1160263	2.84E-06
C	CA	0.05	-0.5538012	0.1160263	2.84E-06
C	T	0.05	-0.5575912	0.1166272	2.73E-06
A	G	0.05	-0.5406534	0.1179026	6.60E-06
T	TA	0.05	-0.5538012	0.1160263	2.84E-06
G	T	0.05	-0.5538012	0.1160263	2.84E-06
G	A	0.05	-0.5445073	0.117905	5.71E-06
T	G	0.05	-0.5497724	0.117355	4.23E-06
G	A	0.05	-0.5728305	0.1177622	1.86E-06
G	A	0.05	-0.5682128	0.1164981	1.75E-06
C	T	0.05	-0.5538012	0.1160263	2.84E-06
G	A	0.05	-0.5459785	0.1167386	4.39E-06
C	T	0.05	-0.5618395	0.1166961	2.34E-06
T	G	0.05	-0.5538012	0.1160263	2.84E-06
C	T	0.05	-0.5430652	0.1192739	7.62E-06
G	T	0.01	-1.021753	0.2244524	7.65E-06
G	T	0.12	-0.400909	0.08269135	2.01E-06
T	C	0.12	-0.4007119	0.08242763	1.89E-06
T	C	0.12	-0.4007119	0.08242763	1.89E-06
C	A	0.03	0.8037141	0.1649087	1.78E-06
A	AT	0.02	-0.9934138	0.2126062	4.47E-06
CACA	C	0.01	-1.10491	0.2349691	3.91E-06
C	T	0.02	0.7847211	0.1723493	7.62E-06
C	T	0.14	-0.3471125	0.07499827	5.46E-06
C	T	0.14	-0.3390801	0.07514855	9.12E-06

C	T	0.14	-0.3705679	0.07525702	1.41E-06
CTGTG	C	0.07	-0.4596119	0.1008171	7.43E-06
A	AAGACCCACCC	0.03	-0.6693941	0.14453	5.38E-06
A	G	0.1	0.415648	0.09251966	9.94E-06
C	T	0.08	-0.4516155	0.09698329	4.80E-06
G	A	0.06	-0.521936	0.1149378	8.03E-06
G	A	0.06	-0.521936	0.1149378	8.03E-06
G	A	0.06	-0.521936	0.1149378	8.03E-06
C	A	0.06	-0.521936	0.1149378	8.03E-06
A	G	0.48	0.2370483	0.05102578	5.05E-06
A	G	0.44	-0.2345383	0.05091233	6.01E-06
A	T	0.09	-0.4197615	0.09077173	5.55E-06
T	G	0.08	-0.4735457	0.100526	3.77E-06
G	A	0.04	-0.6846168	0.1428288	2.58E-06
C	T	0.03	-0.7152542	0.1544952	5.42E-06
A	G	0.07	-0.5266033	0.1076578	1.64E-06
A	C	0.04	-0.5875716	0.1276398	6.10E-06
A	C	0.27	0.2790939	0.06038389	5.61E-06
TAGAGAGAGAG	T	0.01	-1.269816	0.2493189	6.33E-07
C	CTGTGTGTG	0.1	-0.4094934	0.08979365	7.38E-06
A	G	0.1	0.4650647	0.09119888	6.14E-07
T	C	0.1	0.4927354	0.08950721	8.28E-08
G	C	0.1	0.4927354	0.08950721	8.28E-08
C	T	0.1	0.4927354	0.08950721	8.28E-08
T	G	0.1	0.5107068	0.09006826	3.55E-08
G	T	0.1	0.4927354	0.08950721	8.28E-08
G	T	0.1	0.4927354	0.08950721	8.28E-08
T	C	0.1	0.4927354	0.08950721	8.28E-08
C	A	0.1	0.4927354	0.08950721	8.28E-08
T	A	0.1	0.4927354	0.08950721	8.28E-08
A	G	0.08	0.4792937	0.1013875	3.49E-06
G	GT	0.07	0.4936772	0.1048419	3.80E-06
T	C	0.06	0.5089797	0.1118166	7.66E-06
G	C	0.08	0.4792937	0.1013875	3.49E-06
G	A	0.07	0.4658066	0.1026335	8.12E-06
C	A	0.07	0.4698623	0.1022036	6.26E-06
A	G	0.07	0.4756059	0.1018075	4.49E-06
T	C	0.07	0.4846053	0.1037127	4.47E-06
G	A	0.07	0.4756059	0.1018075	4.49E-06
T	G	0.07	0.4846053	0.1037127	4.47E-06
A	G	0.07	0.4756059	0.1018075	4.49E-06
G	A	0.07	0.4846053	0.1037127	4.47E-06
T	C	0.07	0.4756059	0.1018075	4.49E-06
G	A	0.07	0.4756059	0.1018075	4.49E-06
G	A	0.07	0.4926875	0.1038441	3.23E-06
T	C	0.02	-0.9553488	0.2053324	4.89E-06
G	A	0.4	0.243397	0.05183198	4.03E-06
C	T	0.12	-0.3761051	0.08236809	7.19E-06
G	A	0.02	-0.937242	0.2078282	9.22E-06
G	A	0.02	-0.9649405	0.1972622	1.64E-06

A	C	0.02	-1.047652	0.2171879	2.25E-06
A	G	0.04	0.6716173	0.1451368	5.47E-06
G	A	0.04	0.6938891	0.1466571	3.43E-06
C	T	0.04	0.6716173	0.1451368	5.47E-06
A	AAAG	0.04	0.6716173	0.1451368	5.47E-06
C	T	0.04	0.6938891	0.1466571	3.43E-06
T	C	0.04	0.6938891	0.1466571	3.43E-06
G	C	0.12	-0.3784017	0.08257345	6.69E-06
A	G	0.12	-0.3784017	0.08257345	6.69E-06
A	C	0.12	-0.3784017	0.08257345	6.69E-06
G	A	0.12	-0.3822563	0.082691	5.59E-06
T	A	0.12	-0.3822563	0.082691	5.59E-06
A	T	0.12	-0.3822563	0.082691	5.59E-06
TA	T	0.12	-0.3779068	0.08290125	7.44E-06
C	T	0.12	-0.3822563	0.082691	5.59E-06
G	A	0.12	-0.3822563	0.082691	5.59E-06
T	C	0.12	-0.3822563	0.082691	5.59E-06
C	T	0.12	-0.3804966	0.08295731	6.57E-06
T	A	0.12	-0.3804966	0.08295731	6.57E-06
C	T	0.12	-0.3804966	0.08295731	6.57E-06
T	C	0.12	-0.3804966	0.08295731	6.57E-06
G	A	0.1	-0.437248	0.08651202	7.62E-07
A	G	0.12	-0.37694	0.08281768	7.67E-06
A	G	0.12	-0.3804966	0.08295731	6.57E-06
T	C	0.12	-0.3680548	0.08193274	9.95E-06
T	A	0.12	-0.37694	0.08281768	7.67E-06
A	G	0.12	-0.3769637	0.08280981	7.65E-06
C	T	0.12	-0.3804966	0.08295731	6.57E-06
C	A	0.11	-0.3800722	0.08369156	8.02E-06
G	C	0.12	-0.3804966	0.08295731	6.57E-06
T	A	0.12	-0.3839464	0.08253669	4.91E-06
T	G	0.12	-0.3857123	0.08342591	5.58E-06
T	G	0.22	0.2809778	0.06114621	6.32E-06
C	G	0.21	-0.2852373	0.06345709	9.83E-06
G	A	0.36	-0.238347	0.05207016	6.84E-06
T	C	0.02	0.9646544	0.2145228	9.76E-06
A	G	0.02	-0.804376	0.1743884	5.85E-06
A	G	0.28	-0.2824316	0.05985438	3.63E-06
C	CAAAAAAA	0.02	-0.8892357	0.1808445	1.46E-06
T	TAC	0.07	-0.5018999	0.1091503	6.24E-06
G	C	0.22	-0.2884522	0.06309922	7.03E-06
G	A	0.3	0.2648536	0.05635849	3.96E-06
GGAAAAGAAAA	G	0.02	-0.7930718	0.168008	3.60E-06
A	G	0.35	-0.2591532	0.05479077	3.45E-06
C	T	0.3	-0.2615713	0.05682917	6.11E-06
C	T	0.32	-0.2549976	0.05662888	9.50E-06
GT	G	0.05	-0.5528514	0.1195895	5.59E-06
C	T	0.02	0.8604528	0.1901699	8.69E-06
C	T	0.02	0.8604528	0.1901699	8.69E-06
T	G	0.02	0.8604528	0.1901699	8.69E-06

TACAC	T	0.05	0.4945	0.1095759	9.15E-06
TACACAC	T	0.03	0.6957502	0.1525558	7.42E-06
GCACA	G	0.04	0.5803809	0.1251635	5.29E-06
C	G	0.01	1.103942	0.2124164	3.87E-07
G	GACAC	0.01	1.105122	0.2100833	2.84E-07
T	A	0.02	0.831211	0.184751	9.72E-06
CAT	C	0.08	0.3962804	0.0879276	9.39E-06
C	T	0.01	1.128454	0.2357497	2.69E-06
T	C	0.03	0.7020656	0.1514485	5.32E-06
A	G	0.03	0.7020656	0.1514485	5.32E-06
G	A	0.01	1.057634	0.2121351	1.07E-06
C	T	0.01	1.086185	0.2380382	7.34E-06
A	G	0.01	1.136117	0.2187314	3.93E-07
C	A	0.08	0.4019393	0.08830098	7.71E-06
ATATGTATGTATG	A	0.02	0.8198982	0.1662062	1.36E-06
C	T	0.02	0.7649856	0.1626556	3.93E-06
G	A	0.01	1.182419	0.2153735	9.06E-08
A	C	0.01	1.194457	0.2257482	2.44E-07
T	C	0.01	0.9682872	0.2133281	8.16E-06
T	C	0.01	0.9629807	0.2034476	3.43E-06
C	G	0.02	0.7786255	0.1599117	1.84E-06
T	C	0.01	1.050364	0.2091932	9.02E-07
T	A	0.01	1.145967	0.2163625	2.38E-07
A	G	0.01	1.050364	0.2091932	9.02E-07
T	A	0.01	0.9375075	0.1995847	4.03E-06
C	T	0.01	1.105286	0.2311844	2.76E-06
G	A	0.09	0.384421	0.08131113	3.51E-06
T	A	0.01	0.9917105	0.2199445	9.31E-06
C	T	0.01	1.091479	0.2328412	4.21E-06
G	A	0.03	0.6301616	0.1352894	4.81E-06
GTCTCTCTC	G	0.02	0.8549269	0.1886899	8.46E-06
A	T	0.01	1.169281	0.2315923	7.90E-07
GA	G	0.01	1.085925	0.2301982	3.68E-06
T	C	0.01	1.041317	0.2212134	3.85E-06
A	AC	0.01	1.009264	0.2042458	1.31E-06
T	A	0.01	1.169281	0.2315923	7.90E-07
C	CT	0.01	1.169281	0.2315923	7.90E-07
G	C	0.01	1.076561	0.2172305	1.23E-06
G	T	0.01	1.114558	0.219026	6.53E-07
C	T	0.07	0.4322969	0.09337152	5.46E-06
G	A	0.07	0.4322969	0.09337152	5.46E-06
A	G	0.01	1.056552	0.2243533	3.82E-06
G	GCTA	0.02	0.7246942	0.1472094	1.43E-06
G	A	0.01	0.9456068	0.209652	9.25E-06
G	T	0.01	1.12743	0.2126431	2.32E-07
C	T	0.01	0.9514854	0.1985674	2.62E-06
G	T	0.02	0.9552896	0.176808	1.40E-07
T	A	0.02	0.7159593	0.156974	7.41E-06
C	G	0.02	0.9693252	0.1795442	1.43E-07
AACAG	A	0.02	0.9693252	0.1795442	1.43E-07

T	C	0.02	0.9693252	0.1795442	1.43E-07
C	T	0.02	0.9693252	0.1795442	1.43E-07
G	A	0.02	0.9693252	0.1795442	1.43E-07
G	A	0.02	0.9693252	0.1795442	1.43E-07
T	A	0.02	0.930789	0.1759547	2.46E-07
A	AGAGT	0.02	0.7588078	0.1593171	2.99E-06
C	T	0.02	0.7588078	0.1593171	2.99E-06
G	GA	0.02	0.8120547	0.1628662	1.06E-06
A	G	0.02	0.8120547	0.1628662	1.06E-06
C	T	0.02	0.8120547	0.1628662	1.06E-06
C	G	0.02	0.8120547	0.1628662	1.06E-06
G	A	0.02	0.8120547	0.1628662	1.06E-06
T	G	0.02	0.8120547	0.1628662	1.06E-06
T	C	0.02	0.8120547	0.1628662	1.06E-06
G	C	0.02	0.8120547	0.1628662	1.06E-06
G	A	0.02	0.8120547	0.1628662	1.06E-06
A	G	0.02	0.8120547	0.1628662	1.06E-06
T	C	0.02	0.8021974	0.1620663	1.26E-06
C	T	0.2	0.2844547	0.05855709	1.94E-06
T	C	0.19	0.2913123	0.05845651	1.08E-06
C	T	0.01	1.072834	0.2362287	8.07E-06
A	G	0.02	0.8698961	0.191366	7.92E-06
C	A	0.02	0.794989	0.1612688	1.39E-06
AATATAT	A	0.01	1.018742	0.2135867	2.90E-06
C	T	0.01	1.068929	0.2262334	3.56E-06
G	GA	0.02	0.9127891	0.1923879	3.26E-06
C	T	0.05	0.5318445	0.1146475	5.24E-06
TTAGA	T	0.06	0.4666379	0.09998018	4.61E-06
G	C	0.06	0.4709729	0.09964845	3.54E-06
G	A	0.06	0.4632913	0.0994992	4.85E-06
G	A	0.06	0.4632913	0.0994992	4.85E-06
G	A	0.06	0.4632913	0.0994992	4.85E-06
C	T	0.06	0.4632913	0.0994992	4.85E-06
G	A	0.06	0.4632913	0.0994992	4.85E-06
G	A	0.06	0.4632913	0.0994992	4.85E-06
G	A	0.01	1.110208	0.2214696	9.37E-07
G	A	0.01	1.101087	0.213371	4.63E-07
C	T	0.15	0.2908681	0.06474265	1.00E-05
CAACA	C	0.01	0.8593854	0.1866316	6.10E-06
T	TTATTTATTTATTTATT	0.01	0.8721189	0.1786042	1.72E-06
A	AT	0.01	1.084327	0.2376666	7.36E-06
T	A	0.01	1.084327	0.2376666	7.36E-06
T	A	0.02	0.7340158	0.1597512	6.38E-06
G	A	0.03	0.6684568	0.1417293	3.70E-06
C	T	0.03	0.6684568	0.1417293	3.70E-06
C	T	0.03	0.6810774	0.1410119	2.20E-06
C	T	0.03	0.6939897	0.1435072	2.14E-06
C	T	0.03	0.6810774	0.1410119	2.20E-06
T	C	0.03	0.6746865	0.1419639	3.14E-06
G	A	0.03	0.6939897	0.1435072	2.14E-06

G	A	0.03	0.6923807	0.1430463	2.10E-06
GA	G	0.03	0.6810774	0.1410119	2.20E-06
G	T	0.03	0.7109779	0.1434681	1.23E-06
T	TTAC	0.03	0.6393447	0.1268811	8.28E-07
C	T	0.02	0.8374484	0.1847581	8.39E-06
G	A	0.01	0.9224339	0.1989665	5.31E-06
C	T	0.01	1.054304	0.2308002	7.18E-06
T	C	0.02	0.9309159	0.1996753	4.72E-06
A	C	0.02	0.9309159	0.1996753	4.72E-06
C	T	0.01	1.191842	0.2273343	3.10E-07
T	TA	0.01	1.129875	0.2382013	3.27E-06
A	AT	0.29	-0.2454189	0.05121573	2.62E-06
C	T	0.03	0.6180006	0.134713	6.59E-06
T	C	0.01	0.8062699	0.1794419	9.97E-06
AGT	A	0.02	0.8620887	0.1817666	3.28E-06
A	T	0.02	0.9219875	0.2007615	6.45E-06
TA	T	0.03	0.6279158	0.1327213	3.46E-06
G	C	0.01	1.026645	0.2205976	4.90E-06
C	T	0.03	0.6545029	0.1435233	7.43E-06
CAG	C	0.05	0.5236243	0.1054116	1.16E-06
T	C	0.06	0.4754326	0.09966559	2.90E-06
TAG	T	0.03	0.7366821	0.1426893	4.57E-07
GACACACACACAC	G	0.09	-0.3696807	0.08213271	9.64E-06
C	T	0.28	0.2354937	0.05204791	8.70E-06
A	T	0.01	1.123515	0.2044977	8.88E-08
T	G	0.01	1.123515	0.2044977	8.88E-08
G	A	0.02	0.8478578	0.1780113	2.99E-06
T	C	0.03	0.5670066	0.1253811	8.78E-06
C	T	0.01	0.9972521	0.2066034	2.23E-06
A	T	0.01	0.9972521	0.2066034	2.23E-06
T	C	0.01	0.9972521	0.2066034	2.23E-06
C	T	0.01	0.9972521	0.2066034	2.23E-06
C	T	0.02	0.863397	0.1910599	8.91E-06
T	TAC	0.25	0.2513499	0.05370176	4.35E-06
T	C	0.04	0.5679774	0.1223037	5.12E-06
G	A	0.04	0.5600433	0.1211895	5.67E-06
G	A	0.04	0.5493565	0.1198706	6.72E-06
A	T	0.33	0.2117768	0.04703112	9.56E-06
A	G	0.01	1.184823	0.2339219	7.31E-07
C	T	0.02	0.7563801	0.1563445	2.12E-06
T	C	0.01	1.061345	0.2250448	3.70E-06
A	G	0.01	1.004808	0.2229813	9.42E-06
G	A	0.02	0.8892716	0.1892484	4.00E-06
G	A	0.03	0.6282308	0.1396229	9.70E-06
G	GA	0.15	0.30496	0.06593486	5.57E-06
C	T	0.02	0.9082492	0.1978543	6.50E-06
A	G	0.02	0.9082492	0.1978543	6.50E-06
G	C	0.01	1.19235	0.2425467	1.48E-06
T	G	0.01	0.9467119	0.2038197	5.10E-06
C	T	0.01	1.122284	0.2162601	4.02E-07

C	G	0.17	0.2738996	0.06066304	9.06E-06
C	A	0.17	0.278234	0.06099563	7.39E-06
A	G	0.01	1.147075	0.1849025	2.09E-09
AGTGT	A	0.03	0.6773217	0.1263761	1.74E-07
C	G	0.01	1.147885	0.2242005	5.62E-07
C	CT	0.16	0.2938382	0.06383114	6.14E-06
G	A	0.01	0.9862487	0.2099576	4.03E-06
T	G	0.35	0.255206	0.04926435	4.20E-07
A	G	0.35	0.2613875	0.04976831	2.96E-07
G	A	0.36	0.2376755	0.04957656	2.60E-06
T	C	0.36	0.2299089	0.04957717	5.28E-06
T	C	0.36	0.2362346	0.04957594	2.96E-06
C	T	0.36	0.2374847	0.04953968	2.60E-06
G	A	0.36	0.2336834	0.04954229	3.69E-06
G	T	0.36	0.2336724	0.04948575	3.61E-06
G	A	0.37	0.2452627	0.0490003	9.71E-07
G	C	0.37	0.2445946	0.04905807	1.07E-06
T	A	0.37	0.2401862	0.04888402	1.50E-06
G	A	0.37	0.2241828	0.04897928	6.90E-06
A	G	0.37	0.2282387	0.04907689	4.97E-06
G	A	0.36	0.25466	0.04861414	3.17E-07
A	G	0.38	0.2268936	0.04893911	5.30E-06
C	T	0.37	0.2244938	0.04908395	7.00E-06
A	C	0.38	0.2229826	0.04900471	7.77E-06
T	C	0.38	0.2380205	0.04879152	1.76E-06
C	T	0.38	0.2339492	0.0486964	2.48E-06
A	G	0.38	0.2208514	0.04879482	8.64E-06
C	CA	0.38	0.2232288	0.04867521	6.63E-06
T	C	0.38	0.2352602	0.04858486	2.08E-06
A	G	0.38	0.2375636	0.04855646	1.65E-06
G	A	0.38	0.2381892	0.04854097	1.54E-06
A	AC	0.01	0.9851613	0.2179276	8.85E-06
A	T	0.02	1.059758	0.1944401	1.11E-07
A	G	0.02	0.9484638	0.1697598	5.53E-08
G	A	0.01	1.099096	0.2257883	1.85E-06
T	TA	0.05	0.4440062	0.09882335	9.99E-06
G	A	0.01	1.209243	0.2409876	9.15E-07
TTTC	T	0.01	0.8488815	0.1879803	9.04E-06
G	A	0.01	0.9784155	0.2104442	5.00E-06
C	T	0.01	1.038398	0.2257148	6.22E-06
TAA	T	0.02	0.9162503	0.19084	2.51E-06
A	G	0.02	0.7444986	0.16108	5.65E-06
TCACCATCAC	T	0.02	0.7444986	0.16108	5.65E-06
C	A	0.02	0.7444986	0.16108	5.65E-06
T	C	0.01	0.9735018	0.2126225	6.85E-06
G	C	0.01	1.017226	0.222091	6.80E-06
C	G	0.01	1.017226	0.222091	6.80E-06
GC	G	0.02	0.6354737	0.1393693	7.45E-06
T	C	0.02	1.081271	0.2050976	2.69E-07
G	A	0.03	0.57142	0.1250462	7.13E-06

G	A	0.06	0.4504431	0.098899	7.62E-06
T	TTTCTTCTTC	0.02	0.9178176	0.1822924	8.44E-07
T	C	0.01	0.8572944	0.1892089	8.46E-06
C	T	0.01	0.8572944	0.1892089	8.46E-06
C	A	0.01	0.9761584	0.1936276	8.19E-07
C	T	0.01	0.9761584	0.1936276	8.19E-07
T	C	0.01	0.9761584	0.1936276	8.19E-07
A	T	0.01	0.9761584	0.1936276	8.19E-07
A	G	0.01	0.9761584	0.1936276	8.19E-07
C	T	0.01	0.9761584	0.1936276	8.19E-07
G	T	0.02	0.7149435	0.1590851	9.94E-06
G	A	0.02	0.883793	0.1908433	5.43E-06
T	G	0.02	0.883793	0.1908433	5.43E-06
A	G	0.01	1.054788	0.2347579	9.98E-06
CA	C	0.01	1.03785	0.2262791	6.61E-06
C	G	0.02	0.8550515	0.1830538	4.54E-06
A	AAT	0.01	1.069038	0.2194843	1.82E-06
G	C	0.04	0.5683745	0.1248166	7.65E-06
G	A	0.02	0.8442501	0.1851939	7.48E-06
T	G	0.02	0.8755445	0.1941902	9.32E-06
A	C	0.02	0.8755445	0.1941902	9.32E-06
A	G	0.02	0.8755445	0.1941902	9.32E-06
C	T	0.02	0.8755445	0.1941902	9.32E-06
G	A	0.02	0.8755445	0.1941902	9.32E-06
C	A	0.03	0.6193963	0.1356879	7.28E-06
C	T	0.02	0.7355445	0.1560048	3.72E-06
AT	A	0.01	0.9218092	0.2027285	7.88E-06
T	G	0.02	0.896422	0.1868831	2.57E-06
A	G	0.02	0.896422	0.1868831	2.57E-06
C	A	0.02	0.896422	0.1868831	2.57E-06
G	A	0.02	0.896422	0.1868831	2.57E-06
A	G	0.02	0.8587366	0.1881761	7.33E-06
A	G	0.02	0.8587366	0.1881761	7.33E-06
A	G	0.02	0.8587366	0.1881761	7.33E-06
G	A	0.02	0.8587366	0.1881761	7.33E-06
G	A	0.02	0.8836673	0.1855188	2.99E-06
T	C	0.04	0.6060515	0.1165389	3.81E-07
G	C	0.04	0.6060515	0.1165389	3.81E-07
C	T	0.04	0.6060515	0.1165389	3.81E-07
CT	C	0.04	0.6060515	0.1165389	3.81E-07
T	C	0.04	0.59661	0.1151204	4.16E-07
A	C	0.04	0.59661	0.1151204	4.16E-07
G	A	0.05	0.5592414	0.1135382	1.41E-06
G	A	0.04	0.5804335	0.1160375	9.86E-07
A	C	0.04	0.5804335	0.1160375	9.86E-07
C	T	0.04	0.5563444	0.1173052	3.28E-06
T	TA	0.01	0.9799825	0.2100308	4.64E-06
G	A	0.02	0.8689678	0.1837248	3.48E-06
C	T	0.02	0.9455531	0.1976259	2.71E-06
C	T	0.02	0.9455531	0.1976259	2.71E-06

C	T	0.01	1.010497	0.2127574	3.18E-06
G	A	0.02	0.9455531	0.1976259	2.71E-06
GT	G	0.02	0.9455531	0.1976259	2.71E-06
T	C	0.02	0.9455531	0.1976259	2.71E-06
A	G	0.02	0.9455531	0.1976259	2.71E-06
C	G	0.02	0.9455531	0.1976259	2.71E-06
G	A	0.02	0.9455531	0.1976259	2.71E-06
C	A	0.02	0.9455531	0.1976259	2.71E-06
A	G	0.01	1.006276	0.208126	2.15E-06
C	T	0.01	0.9546709	0.2096726	7.67E-06
G	T	0.02	0.8465382	0.1808176	4.33E-06
AATAGATAG	A	0.02	0.4435678	0.09724512	7.33E-06
T	TC	0.01	0.525229	0.1131565	5.13E-06
GAA	G	0.21	0.1182685	0.02614287	8.65E-06
G	C	0.26	0.1213069	0.02695163	9.56E-06
G	A	0.26	0.1244365	0.02701763	6.02E-06
C	CCTT	0.26	0.1222219	0.02703965	8.79E-06
G	A	0.05	0.2773498	0.05816094	2.89E-06
G	GT	0.03	0.338182	0.07472366	8.58E-06
T	TACACACAC	0.02	0.3994714	0.08732831	6.92E-06
G	A	0.04	0.2935218	0.06410722	6.79E-06
C	T	0.04	0.304874	0.06460869	3.62E-06
G	GTGAGCCACGGTGGC	0.02	0.3844587	0.08122439	3.39E-06
C	T	0.01	0.5247503	0.1137115	5.78E-06
T	A	0.02	0.4711184	0.09374622	8.71E-07
AACACAC	A	0.02	0.4122398	0.09007888	6.86E-06
G	T	0.02	0.4512776	0.08998881	9.17E-07
C	T	0.03	0.3797769	0.07396923	5.17E-07
G	T	0.39	-0.1098159	0.02414723	7.78E-06
T	TAATAAATA	0.03	0.3193836	0.06839718	4.52E-06
A	G	0.32	0.1200394	0.02631405	7.32E-06
C	G	0.27	0.1291935	0.02736571	3.59E-06
C	T	0.28	0.1271797	0.02739158	5.10E-06
C	A	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
C	T	0.28	0.1290286	0.02736025	3.67E-06
A	G	0.28	0.1271797	0.02739158	5.10E-06
C	T	0.28	0.1298916	0.0275875	3.80E-06
C	T	0.28	0.1323244	0.02735479	2.10E-06
T	C	0.28	0.1290286	0.02736025	3.67E-06
T	A	0.29	0.1340373	0.02734848	1.57E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
C	T	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.3	0.1378803	0.02673277	4.62E-07
A	AG	0.28	0.1266695	0.02738083	5.49E-06
G	A	0.28	0.1264013	0.02737067	5.70E-06
A	C	0.28	0.1302073	0.02733652	2.96E-06
AG	A	0.28	0.1266695	0.02738083	5.49E-06

T	C	0.32	0.1262997	0.02644655	2.80E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
C	A	0.28	0.1268536	0.02737886	5.32E-06
T	C	0.28	0.1262858	0.02735239	5.73E-06
C	CT	0.28	0.1321537	0.02749311	2.42E-06
G	A	0.28	0.1277489	0.02736587	4.55E-06
A	T	0.28	0.1290286	0.02736025	3.67E-06
C	T	0.28	0.1290286	0.02736025	3.67E-06
A	G	0.28	0.1300916	0.02734614	3.04E-06
T	C	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
A	G	0.28	0.1290286	0.02736025	3.67E-06
G	C	0.28	0.1290286	0.02736025	3.67E-06
G	T	0.28	0.128983	0.02758394	4.39E-06
C	G	0.32	0.1229981	0.02646829	5.01E-06
A	AT	0.28	0.1266695	0.02738083	5.49E-06
G	A	0.28	0.127577	0.02754606	5.37E-06
C	T	0.28	0.1290286	0.02736025	3.67E-06
A	G	0.28	0.1299699	0.02734017	3.09E-06
T	C	0.28	0.1290286	0.02736025	3.67E-06
G	A	0.28	0.1290286	0.02736025	3.67E-06
C	A	0.02	0.3822581	0.08471026	9.09E-06
C	T	0.01	0.5035506	0.1050477	2.58E-06
C	T	0.01	0.5220883	0.1137529	6.47E-06
C	T	0.04	0.2915507	0.06351857	6.46E-06
G	C	0.5	0.09967963	0.0221169	9.31E-06
T	TTTG	0.02	0.404732	0.08949275	8.70E-06
GTA	G	0.02	0.4082011	0.08521455	2.61E-06
C	CA	0.01	0.4959864	0.106082	4.40E-06
C	T	0.31	-0.1191107	0.02612738	7.41E-06
A	\CACACACACACAC	0.05	0.2970348	0.05806586	5.66E-07
AT	A	0.06	0.2420425	0.05312753	7.51E-06
AGT	A	0.19	0.1381852	0.03009292	6.40E-06
G	A	0.19	0.1380676	0.03009395	6.52E-06
A	G	0.2	0.1362884	0.02942579	5.36E-06
G	T	0.2	0.1349093	0.0294202	6.58E-06
C	T	0.19	0.1384975	0.02979704	4.98E-06
A	G	0.2	0.1377007	0.02939064	4.22E-06
G	A	0.23	0.1480804	0.02796591	2.36E-07
A	G	0.36	0.1318686	0.02434703	1.29E-07
G	A	0.35	0.1287031	0.02443497	2.71E-07
A	G	0.23	0.1503619	0.02795762	1.56E-07
G	A	0.37	0.1332941	0.02402278	6.60E-08
AT	A	0.23	0.1504463	0.02820437	1.94E-07
T	C	0.23	0.1511379	0.02791903	1.31E-07
T	C	0.02	0.4558344	0.09741533	4.33E-06
G	A	0.31	0.113986	0.02520808	8.73E-06
C	T	0.04	0.2920576	0.06124019	2.88E-06
A	AAAC	0.28	0.1413209	0.02932312	2.29E-06

A	C	0.37	0.1158964	0.02558757	8.44E-06
A	G	0.01	0.5295253	0.1168627	8.37E-06
A	T	0.22	0.1267293	0.02821742	9.98E-06
A	G	0.19	-0.1452758	0.03094723	4.05E-06
G	A	0.24	-0.1297221	0.02825385	6.42E-06
C	G	0.24	-0.1301387	0.02847742	7.06E-06
T	G	0.05	0.2974179	0.05747112	4.25E-07
T	C	0.01	0.4985045	0.109688	7.89E-06
A	G	0.03	0.3376188	0.07359022	6.52E-06
T	A	0.03	0.3340142	0.07432365	9.85E-06
T	C	0.04	0.3299703	0.0730332	8.87E-06
G	C	0.04	0.3299703	0.0730332	8.87E-06
A	G	0.04	0.3202966	0.07085616	8.78E-06
A	G	0.09	0.2174628	0.04732788	6.32E-06
G	A	0.25	-0.1340695	0.02960552	8.47E-06
.CATGACTTGGCACAG	T	0.03	0.3556914	0.07607623	4.41E-06
T	TG	0.19	-0.1537029	0.03404265	8.99E-06
C	T	0.1	-0.2064378	0.0422611	1.69E-06
T	C	0.11	-0.1871752	0.04138433	8.69E-06
C	A	0.11	-0.1919599	0.04144073	5.35E-06
G	A	0.11	-0.1923164	0.04143612	5.14E-06
G	C	0.07	0.2458181	0.04997365	1.44E-06
GACACACACAC	G	0.18	0.1698951	0.03543856	2.57E-06
C	CACACAGAG	0.04	-0.3094039	0.06792732	7.54E-06
G	A	0.01	0.491005	0.1091766	9.71E-06
A	C	0.01	0.491005	0.1091766	9.71E-06
C	T	0.01	0.491005	0.1091766	9.71E-06
A	G	0.18	0.1516521	0.03318442	7.06E-06
C	G	0.35	-0.1334083	0.02828055	3.65E-06
G	A	0.37	-0.1253931	0.02699256	5.04E-06
TTG	T	0.02	-0.432257	0.09209641	4.06E-06
A	G	0.32	0.1363083	0.02800801	1.84E-06
T	C	0.33	0.1329097	0.02722295	1.71E-06
T	C	0.32	0.1283272	0.02730183	3.94E-06
G	A	0.32	0.1249702	0.02728025	6.72E-06
T	C	0.3	0.1230847	0.02739088	9.87E-06
T	C	0.32	0.1283284	0.02732737	4.02E-06
T	C	0.33	0.1288839	0.02725432	3.46E-06
T	C	0.33	0.1290235	0.02728406	3.46E-06
A	T	0.33	0.1323332	0.02731938	2.04E-06
A	T	0.32	0.1286578	0.02723147	3.53E-06
T	C	0.33	0.1271361	0.0272844	4.73E-06
CT	C	0.29	0.1440625	0.03004054	2.55E-06
G	A	0.02	0.4541608	0.09427434	2.31E-06
C	T	0.03	0.3065672	0.06559324	4.44E-06
T	C	0.03	0.3065672	0.06559324	4.44E-06
G	A	0.03	0.3086376	0.06842683	9.17E-06
C	T	0.06	0.2230747	0.04950943	9.36E-06
C	T	0.06	0.2230747	0.04950943	9.36E-06
T	C	0.06	0.2230747	0.04950943	9.36E-06

A	G	0.06	0.2230747	0.04950943	9.36E-06
C	CTCCCTCCTTCCTTCC	0.02	0.4631311	0.08523531	1.18E-07
T	AAATAAGGTATTGTAC	0.01	0.4783438	0.1046372	7.01E-06
CT	C	0.4	0.09370416	0.02059194	7.69E-06
A	G	0.06	0.2110151	0.04687209	9.52E-06
T	C	0.06	0.2110151	0.04687209	9.52E-06
GAC	G	0.03	0.3026283	0.06668969	8.13E-06
G	A	0.17	0.1346565	0.0294809	7.13E-06
C	T	0.02	0.4049909	0.08710374	4.95E-06
A	G	0.01	0.5170115	0.1095633	3.62E-06
C	A	0.01	0.5170115	0.1095633	3.62E-06
A	C	0.16	0.1439656	0.03129225	6.16E-06
GTCTC	G	0.04	0.3359761	0.06332138	2.24E-07
C	T	0.2	0.1352055	0.02856528	3.39E-06
T	C	0.2	0.1323257	0.02871577	5.96E-06
G	A	0.2	0.1406558	0.02872706	1.60E-06
G	C	0.2	0.1303881	0.02872211	8.07E-06
C	T	0.04	0.2659063	0.05837925	7.55E-06
T	A	0.04	0.3057798	0.06083661	8.68E-07
GAA	G	0.01	0.4519285	0.09804471	5.92E-06
C	T	0.02	0.3877015	0.08518516	7.66E-06
T	G	0.02	0.4121141	0.08673343	3.12E-06
A	ATGTGTGTGTG	0.15	0.1560679	0.03348026	4.69E-06
T	C	0.02	0.4044341	0.08928733	8.43E-06
T	TAAATAAAATAAAAT/	0.08	0.1958252	0.04348732	9.47E-06
C	T	0.16	0.1498725	0.030556	1.54E-06
T	C	0.16	0.1710102	0.03090781	7.15E-08
G	A	0.16	0.172867	0.03092078	5.32E-08
G	T	0.16	0.172867	0.03092078	5.32E-08
CTGTGTGTGTG	C	0.03	0.2895288	0.06306544	6.43E-06
C	A	0.01	0.4785202	0.1000513	2.71E-06
C	T	0.22	0.1272615	0.02767871	6.24E-06
T	A	0.22	0.128938	0.0276532	4.67E-06
T	G	0.22	0.1243997	0.02743816	8.28E-06
CATTT	C	0.22	0.12615	0.02739315	6.04E-06
A	G	0.22	0.1234875	0.02742823	9.51E-06
A	T	0.22	0.1267557	0.02753546	6.08E-06
A	G	0.22	0.1253561	0.02743036	7.06E-06
T	A	0.22	0.1246585	0.0275418	8.56E-06
T	C	0.22	0.1234875	0.02742823	9.51E-06
G	A	0.22	0.1255013	0.02755426	7.55E-06
T	G	0.22	0.1254638	0.02752936	7.46E-06
A	G	0.22	0.1259172	0.0274224	6.41E-06
A	C	0.21	0.1305374	0.02853006	6.89E-06
C	T	0.21	0.1305374	0.02853006	6.89E-06
C	T	0.21	0.1305374	0.02853006	6.89E-06
CA	C	0.21	0.1293049	0.02852871	8.33E-06
A	G	0.21	0.1304609	0.02852999	6.97E-06
A	G	0.2	0.1280335	0.02849084	9.86E-06
A	T	0.2	0.1296944	0.02878119	9.34E-06

T	A	0.2	0.132464	0.0289255	6.77E-06
C	T	0.2	0.1324498	0.02893225	6.81E-06
T	G	0.19	0.1339109	0.02924849	6.80E-06
A	T	0.02	0.4055979	0.08873833	7.03E-06
G	A	0.02	0.4638086	0.08629592	1.59E-07
G	A	0.01	0.4398295	0.09788968	9.90E-06
C	T	0.02	0.4260076	0.09156537	4.88E-06
G	T	0.02	0.442615	0.087	6.48E-07
G	A	0.06	0.234762	0.04807034	1.70E-06
C	T	0.07	0.214651	0.04577689	4.14E-06
G	A	0.1	0.1737831	0.03766493	5.80E-06
C	T	0.1	0.1710537	0.03759478	7.71E-06
G	C	0.08	0.1807012	0.04013658	9.51E-06
C	G	0.1	0.185007	0.03818355	2.03E-06
T	G	0.02	0.422923	0.09274194	7.37E-06
T	C	0.01	0.5247486	0.1161906	8.94E-06
G	A	0.01	0.5247486	0.1161906	8.94E-06
T	C	0.01	0.5247486	0.1161906	8.94E-06
A	G	0.23	-0.1305363	0.02799174	4.65E-06
C	T	0.23	-0.1401569	0.02797104	9.34E-07
T	C	0.23	-0.1372559	0.02795858	1.51E-06
C	T	0.24	-0.1250596	0.02765783	8.73E-06
T	C	0.24	-0.1249477	0.02742842	7.53E-06
A	C	0.01	0.5215609	0.1136578	6.49E-06
G	GC	0.04	0.26339	0.05709897	5.83E-06
TCACACA	T	0.02	0.3838507	0.07430871	4.45E-07
T	C	0.32	0.1105393	0.02458276	9.74E-06
T	G	0.02	0.3741534	0.08203574	7.35E-06
T	G	0.02	0.3741534	0.08203574	7.35E-06
GAAC	G	0.02	0.3741534	0.08203574	7.35E-06
A	G	0.02	0.3741534	0.08203574	7.35E-06
C	T	0.02	0.3741534	0.08203574	7.35E-06
C	G	0.44	0.111938	0.02270388	1.37E-06
G	A	0.43	0.1049535	0.02322335	8.82E-06
A	T	0.42	0.1062523	0.02316012	6.52E-06
C	T	0.43	0.1053563	0.02317659	7.85E-06
G	A	0.43	0.1053563	0.02317659	7.85E-06
A	G	0.43	0.1053563	0.02317659	7.85E-06
A	C	0.43	0.1069196	0.02317151	5.80E-06
C	T	0.43	0.1053563	0.02317659	7.85E-06
C	T	0.43	0.1053563	0.02317659	7.85E-06
T	C	0.25	-0.1235462	0.02565701	2.33E-06
C	A	0.08	-0.2072667	0.04356921	3.04E-06
G	T	0.03	0.2816353	0.06265612	9.82E-06
G	A	0.33	-0.1070963	0.02318613	5.67E-06
T	C	0.32	-0.1080358	0.02393145	9.02E-06
A	G	0.02	0.3855167	0.08147729	3.42E-06
C	A	0.01	0.4729025	0.1037709	7.47E-06
C	G	0.28	-0.1151579	0.02504245	6.22E-06
A	C	0.28	-0.1178095	0.02539984	5.21E-06

A	G	0.27	-0.1195841	0.02546604	4.02E-06
T	C	0.27	-0.1221353	0.0257374	3.21E-06
A	T	0.25	-0.120466	0.02622174	6.34E-06
CG	C	0.32	-0.1102192	0.02441544	9.02E-06
A	G	0.48	-0.1026888	0.022575	7.75E-06
G	T	0.48	-0.1026232	0.0226835	8.64E-06
G	A	0.47	-0.1137108	0.02332953	1.77E-06
G	A	0.47	-0.108571	0.02326935	4.60E-06
G	A	0.45	-0.1054614	0.02307922	7.07E-06
C	T	0.47	-0.1074203	0.02338274	6.34E-06
T	G	0.47	-0.1084714	0.02340394	5.29E-06
C	CT	0.03	0.3332797	0.07227826	5.88E-06
CGTGTGT	C	0.25	0.1255912	0.02787564	9.38E-06
T	A	0.13	0.1566253	0.03426562	7.03E-06
A	AACACACAC	0.1	0.1896235	0.03904316	1.92E-06
A	G	0.14	0.161129	0.03101418	3.85E-07
A	G	0.17	0.1497763	0.02864698	3.27E-07
T	C	0.1	0.1608889	0.03569433	9.30E-06
C	T	0.13	0.1693712	0.03153685	1.62E-07
A	G	0.16	0.15872	0.0291557	1.12E-07
C	T	0.13	0.1693712	0.03153685	1.62E-07
GA	G	0.1	0.159512	0.03523973	8.55E-06
A	G	0.17	0.1551534	0.02880317	1.50E-07
T	C	0.17	0.1551534	0.02880317	1.50E-07
A	G	0.14	0.1664093	0.0312277	2.00E-07
T	C	0.17	0.1551534	0.02880317	1.50E-07
G	A	0.17	0.1551534	0.02880317	1.50E-07
A	G	0.17	0.1448021	0.02898217	1.00E-06
T	C	0.17	0.1391749	0.02881463	2.18E-06
A	G	0.17	0.1437968	0.02880679	1.02E-06
C	T	0.17	0.1478194	0.02895297	5.94E-07
G	A	0.17	0.1465504	0.02932555	9.96E-07
TTG	T	0.37	-0.1084621	0.02409748	9.56E-06
A	G	0.16	0.1495865	0.03065797	1.73E-06
CT	C	0.06	0.2158799	0.0469683	6.28E-06
A	AACAC	0.04	0.274001	0.05712956	2.54E-06
A	AACACACAC	0.01	0.500578	0.1112494	9.62E-06
C	A	0.38	0.1067581	0.02321654	6.22E-06
G	GT	0.38	0.1042656	0.02320473	9.89E-06
A	G	0.35	0.1072049	0.02353569	7.54E-06
G	A	0.02	0.4080298	0.09032977	8.91E-06
T	C	0.06	0.2406295	0.04882048	1.37E-06
A	AAGCAAGAAGTTACT	0.01	0.4624427	0.1019921	8.27E-06
C	CT	0.01	0.4580729	0.09927504	5.80E-06
TACACAC	T	0.32	-0.1168697	0.02580356	8.45E-06
T	C	0.48	-0.1046654	0.02238742	4.41E-06
A	G	0.15	0.1478323	0.03203868	5.80E-06
A	G	0.15	0.1540869	0.03175753	1.97E-06
G	C	0.15	0.1513758	0.03211469	3.71E-06
C	G	0.16	0.1513284	0.03149705	2.45E-06

C	T	0.15	0.1486076	0.03224633	5.95E-06
CAG	C	0.11	-0.2024755	0.04307741	3.94E-06
G	A	0.2	-0.1569059	0.03269033	2.50E-06
A	C	0.26	0.132475	0.0290342	7.29E-06
A	ATGTGTGTGTGTG	0.36	0.1288656	0.02829879	7.58E-06
C	T	0.29	0.1369517	0.02999541	7.19E-06
G	A	0.29	0.1352545	0.02996918	9.07E-06
G	A	0.29	0.1345193	0.02989566	9.62E-06
A	G	0.08	-0.2300078	0.05080531	8.52E-06
C	T	0.03	-0.394299	0.08354533	3.61E-06
C	T	0.06	0.2456985	0.05455183	9.44E-06
G	A	0.27	-0.1421871	0.02973394	2.72E-06
G	A	0.33	0.1251984	0.02786386	9.89E-06
C	T	0.3	0.141249	0.0284981	1.21E-06
C	T	0.32	0.1271186	0.02824909	9.60E-06
T	TA	0.32	0.1280563	0.02815211	7.75E-06
3CACTTCAGCCTGGGC	C	0.26	0.1367492	0.02939458	4.89E-06
T	TA	0.31	0.1309724	0.02831798	5.52E-06
CA	C	0.32	0.128332	0.02821967	7.79E-06
G	A	0.32	0.1291701	0.02822059	6.84E-06
C	T	0.32	0.1286583	0.02821569	7.38E-06
C	T	0.31	0.1292334	0.02801453	5.83E-06
C	T	0.32	0.1261301	0.028029	9.60E-06
C	G	0.32	0.1271317	0.02824507	9.56E-06
G	A	0.32	0.1268253	0.02806055	8.81E-06
A	C	0.05	-0.2822173	0.05920591	2.91E-06
G	T	0.36	0.116929	0.02569144	7.66E-06
G	A	0.06	-0.268944	0.0563674	2.85E-06
T	C	0.06	-0.26582	0.05777205	6.14E-06
A	G	0.06	-0.2657229	0.05626613	3.56E-06
G	A	0.06	-0.2687687	0.05824069	5.78E-06
G	A	0.06	-0.2687687	0.05824069	5.78E-06
T	C	0.06	-0.2687687	0.05824069	5.78E-06
A	G	0.06	-0.2687687	0.05824069	5.78E-06
C	T	0.06	-0.2742312	0.05659371	2.03E-06
G	A	0.06	-0.2687687	0.05824069	5.78E-06
G	A	0.06	-0.2687687	0.05824069	5.78E-06
A	C	0.06	-0.2687687	0.05824069	5.78E-06
T	C	0.06	-0.2769275	0.05849181	3.37E-06
A	G	0.06	-0.2847471	0.05750497	1.24E-06
G	A	0.05	-0.2834951	0.05908497	2.52E-06
A	G	0.05	-0.2834951	0.05908497	2.52E-06
C	G	0.06	-0.2613615	0.05626678	5.05E-06
C	T	0.05	-0.2834951	0.05908497	2.52E-06
C	T	0.05	-0.2834951	0.05908497	2.52E-06
A	G	0.05	-0.2834951	0.05908497	2.52E-06
T	C	0.05	-0.2834951	0.05908497	2.52E-06
T	C	0.05	-0.2834951	0.05908497	2.52E-06
C	T	0.04	-0.3172499	0.06982335	7.93E-06
C	T	0.04	-0.3006037	0.06494474	5.44E-06

C	T	0.04	-0.3006037	0.06494474	5.44E-06
T	C	0.04	-0.3006037	0.06494474	5.44E-06
A	G	0.04	-0.3006037	0.06494474	5.44E-06
G	A	0.05	-0.2803012	0.06170597	7.97E-06
C	T	0.04	-0.3006037	0.06494474	5.44E-06
A	G	0.04	-0.3006037	0.06494474	5.44E-06
C	T	0.04	-0.3006037	0.06494474	5.44E-06
GAC	G	0.37	-0.1300194	0.02861938	7.95E-06
GT	G	0.04	0.3199384	0.0705869	8.32E-06
G	A	0.15	0.1802468	0.03858096	4.48E-06
TG	T	0.3	0.1425886	0.02968372	2.46E-06
A	T	0.3	0.1409822	0.02965235	3.08E-06
G	GT	0.25	0.135234	0.02913867	5.14E-06
G	A	0.34	-0.1224348	0.02726267	9.99E-06
A	G	0.33	-0.1306549	0.02752696	3.19E-06
A	G	0.34	-0.1197528	0.02665089	9.88E-06
C	G	0.32	-0.1259901	0.02747669	6.59E-06
C	T	0.31	-0.1272666	0.02759791	5.87E-06
C	T	0.32	-0.1259901	0.02747669	6.59E-06
C	A	0.32	-0.1293638	0.0274186	3.63E-06
G	A	0.32	-0.1259901	0.02747669	6.59E-06
T	TGTGA	0.45	-0.1178312	0.02559334	6.07E-06
T	G	0.42	-0.1187978	0.02545294	4.57E-06
G	A	0.39	-0.1162649	0.02510892	5.39E-06
A	T	0.4	-0.1180438	0.02601175	8.12E-06
A	G	0.41	-0.1191477	0.02622384	7.93E-06
T	G	0.48	-0.1202013	0.02585357	4.95E-06
G	C	0.13	0.1876535	0.03947694	3.09E-06
C	T	0.13	0.1876535	0.03947694	3.09E-06
G	C	0.17	0.1597313	0.03512649	7.80E-06
T	TAAAC	0.23	0.1578984	0.03270612	2.20E-06
C	CA	0.07	0.2253725	0.04891053	5.96E-06
G	A	0.1	-0.2405482	0.04552593	2.49E-07
C	G	0.09	-0.2279475	0.0472333	2.22E-06
T	A	0.04	0.3161977	0.06989492	8.65E-06
G	A	0.13	0.3553898	0.07864461	9.09E-06
G	A	0.13	0.3518023	0.07780543	8.99E-06
C	T	0.13	0.3514833	0.07771617	8.95E-06
G	A	0.13	0.360176	0.07850578	6.72E-06
C	G	0.15	0.3528226	0.07480961	3.79E-06
T	C	0.19	0.3098343	0.06771869	7.10E-06
A	C	0.17	0.3286607	0.07145726	6.39E-06
T	C	0.13	0.3630133	0.07839138	5.56E-06
T	C	0.12	0.3690906	0.0812124	8.12E-06
C	T	0.12	0.4132732	0.08362483	1.35E-06
A	G	0.13	0.3597354	0.07807248	6.15E-06
C	T	0.13	0.3650014	0.07825681	4.79E-06
C	T	0.13	0.3650014	0.07825681	4.79E-06
C	T	0.13	0.36291	0.07814999	5.24E-06
T	C	0.13	0.3763383	0.07863173	2.76E-06

AAAT	A	0.13	0.3676907	0.07838238	4.25E-06
C	T	0.13	0.36291	0.07814999	5.24E-06
T	TCTGA	0.13	0.3676907	0.07838238	4.25E-06
C	T	0.13	0.36291	0.07814999	5.24E-06
A	G	0.13	0.36291	0.07814999	5.24E-06
C	G	0.13	0.36291	0.07814999	5.24E-06
GAACA	G	0.13	0.3676907	0.07838238	4.25E-06
G	A	0.15	0.3558855	0.07455137	2.92E-06
G	A	0.13	0.36291	0.07814999	5.24E-06
G	A	0.13	0.3663583	0.07822845	4.40E-06
C	T	0.13	0.36291	0.07814999	5.24E-06
T	C	0.13	0.36291	0.07814999	5.24E-06
G	A	0.13	0.36291	0.07814999	5.24E-06
G	A	0.13	0.36291	0.07814999	5.24E-06
T	C	0.15	0.3558855	0.07455137	2.92E-06
G	C	0.15	0.3558855	0.07455137	2.92E-06
A	ATACTG	0.14	0.3913975	0.07580883	4.73E-07
T	C	0.13	0.3865775	0.07974612	2.09E-06
T	A	0.13	0.3840315	0.07866849	1.78E-06
ACT	A	0.14	0.3697492	0.07651844	2.24E-06
AATTC	A	0.13	0.3819821	0.07900882	2.21E-06
A	G	0.15	0.36918	0.07488141	1.42E-06
C	G	0.15	0.36918	0.07488141	1.42E-06
C	T	0.18	0.3210226	0.0706358	8.12E-06
C	T	0.15	0.3819114	0.07563024	8.12E-07
G	T	0.15	0.3680721	0.07495668	1.56E-06
T	C	0.14	0.3518291	0.07723942	7.76E-06
C	A	0.15	0.36918	0.07488141	1.42E-06
A	G	0.18	0.3210226	0.0706358	8.12E-06
G	A	0.13	0.3774246	0.07851904	2.51E-06
C	T	0.15	0.36918	0.07488141	1.42E-06
T	C	0.15	0.36918	0.07488141	1.42E-06
A	C	0.15	0.36918	0.07488141	1.42E-06
C	T	0.18	0.3196234	0.0706669	8.93E-06
C	G	0.15	0.36918	0.07488141	1.42E-06
T	C	0.18	0.3210226	0.0706358	8.12E-06
T	C	0.15	0.36918	0.07488141	1.42E-06
A	G	0.15	0.3782205	0.07529315	9.20E-07
A	G	0.18	0.3210226	0.0706358	8.12E-06
G	A	0.15	0.36918	0.07488141	1.42E-06
A	CACACATCAAGCTAT	0.13	0.4617995	0.08117441	3.44E-08
T	C	0.18	0.3210226	0.0706358	8.12E-06
A	G	0.18	0.3305703	0.0704792	4.26E-06
G	A	0.15	0.387542	0.07512309	4.83E-07
C	T	0.15	0.3794934	0.07466105	6.94E-07
T	C	0.18	0.3305703	0.0704792	4.26E-06
T	C	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.15	0.3794934	0.07466105	6.94E-07
AT	A	0.15	0.3888361	0.07480771	4.00E-07
T	C	0.15	0.3794934	0.07466105	6.94E-07

G	A	0.15	0.3794934	0.07466105	6.94E-07
T	G	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.15	0.3794934	0.07466105	6.94E-07
C	T	0.15	0.3704974	0.07496998	1.35E-06
AACCCC	A	0.15	0.383416	0.07480833	5.67E-07
G	C	0.15	0.3794934	0.07466105	6.94E-07
T	C	0.13	0.3883899	0.07824131	1.22E-06
G	A	0.18	0.3403181	0.07045984	2.26E-06
A	G	0.15	0.3794934	0.07466105	6.94E-07
A	G	0.18	0.3305703	0.0704792	4.26E-06
TAA	T	0.15	0.383416	0.07480833	5.67E-07
G	A	0.15	0.3782614	0.07481137	7.87E-07
G	C	0.18	0.3296869	0.07055022	4.60E-06
G	A	0.15	0.3875779	0.07581992	6.04E-07
C	T	0.18	0.323179	0.07100631	7.89E-06
T	C	0.13	0.3883899	0.07824131	1.22E-06
T	C	0.15	0.4106644	0.0755836	1.26E-07
C	G	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.15	0.3794934	0.07466105	6.94E-07
T	C	0.15	0.3794934	0.07466105	6.94E-07
G	T	0.18	0.3305703	0.0704792	4.26E-06
T	A	0.15	0.3642224	0.07489478	1.94E-06
A	C	0.15	0.3794934	0.07466105	6.94E-07
C	T	0.15	0.3981928	0.07521237	2.50E-07
G	A	0.15	0.3715527	0.07476888	1.19E-06
T	C	0.18	0.3284475	0.07049915	4.90E-06
T	C	0.15	0.3794934	0.07466105	6.94E-07
T	C	0.15	0.3736663	0.07483765	1.06E-06
A	G	0.13	0.3883899	0.07824131	1.22E-06
T	G	0.15	0.3794934	0.07466105	6.94E-07
TA	T	0.15	0.3854598	0.07508722	5.45E-07
G	C	0.15	0.3726097	0.07526087	1.29E-06
C	T	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.18	0.3305703	0.0704792	4.26E-06
T	C	0.15	0.3794934	0.07466105	6.94E-07
G	A	0.13	0.3883899	0.07824131	1.22E-06
C	G	0.18	0.3356396	0.07049739	3.10E-06
G	A	0.13	0.3883899	0.07824131	1.22E-06
A	T	0.15	0.3794934	0.07466105	6.94E-07
G	T	0.15	0.3739898	0.074781	1.02E-06
C	T	0.19	0.3215591	0.07040822	7.36E-06
C	A	0.14	0.3827902	0.07807252	1.61E-06
G	A	0.15	0.3746344	0.0745361	9.07E-07
A	C	0.15	0.3746344	0.0745361	9.07E-07
T	C	0.15	0.3746344	0.0745361	9.07E-07
C	G	0.13	0.3931582	0.08196558	2.63E-06
C	T	0.12	0.3993297	0.08197091	1.87E-06
CATTT	C	0.15	0.3784919	0.07468029	7.44E-07
A	G	0.15	0.367704	0.07513129	1.68E-06

C	T	0.15	0.393135	0.07508263	3.32E-07
T	C	0.15	0.3756637	0.07523245	1.06E-06
T	C	0.19	0.3267667	0.07040726	5.31E-06
CA	C	0.13	0.4086182	0.07896429	4.47E-07
G	A	0.15	0.3727184	0.07468024	1.07E-06
A	C	0.19	0.3267667	0.07040726	5.31E-06
G	A	0.15	0.3746344	0.0745361	9.07E-07
G	A	0.14	0.3827902	0.07807252	1.61E-06
T	G	0.15	0.3746344	0.0745361	9.07E-07
C	T	0.15	0.3746344	0.0745361	9.07E-07
C	T	0.15	0.3746344	0.0745361	9.07E-07
A	C	0.14	0.3827902	0.07807252	1.61E-06
CAATATTAGAATTGCC.	C	0.12	0.4014928	0.08208745	1.71E-06
T	C	0.19	0.3267667	0.07040726	5.31E-06
A	G	0.15	0.3744657	0.07392541	7.54E-07
TA	T	0.15	0.3952366	0.07505647	2.87E-07
T	A	0.15	0.3744657	0.07392541	7.54E-07
T	A	0.15	0.3746344	0.0745361	9.07E-07
G	T	0.15	0.3635203	0.07504689	2.12E-06
G	C	0.19	0.331716	0.07037428	3.84E-06
G	A	0.19	0.3267667	0.07040726	5.31E-06
C	T	0.14	0.3743989	0.07823839	2.77E-06
T	C	0.15	0.3744657	0.07392541	7.54E-07
T	C	0.18	0.3291402	0.070214	4.31E-06
A	G	0.15	0.3725021	0.07403914	8.87E-07
G	A	0.14	0.3752141	0.07818806	2.61E-06
G	A	0.15	0.3746344	0.0745361	9.07E-07
A	C	0.15	0.3755845	0.07457782	8.66E-07
A	G	0.15	0.3735144	0.07460775	9.96E-07
G	A	0.14	0.3827902	0.07807252	1.61E-06
A	G	0.18	0.3418624	0.07081618	2.29E-06
C	T	0.15	0.3744657	0.07392541	7.54E-07
T	A	0.14	0.382085	0.07733781	1.36E-06
C	T	0.14	0.3875919	0.07816221	1.25E-06
A	G	0.18	0.3339844	0.06996434	2.92E-06
A	C	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.19	0.327656	0.06993072	4.35E-06
A	G	0.15	0.3717555	0.07400586	9.20E-07
A	G	0.18	0.3285931	0.07061118	5.02E-06
T	C	0.15	0.3967204	0.07487948	2.45E-07
A	C	0.15	0.3814168	0.07441406	5.66E-07
G	A	0.15	0.382021	0.07469546	5.97E-07
AG	A	0.13	0.4057757	0.08081147	9.29E-07
A	T	0.19	0.3267667	0.07040726	5.31E-06
G	A	0.15	0.3876856	0.07514565	4.82E-07
A	G	0.15	0.3642547	0.07500584	2.00E-06
G	T	0.14	0.3818345	0.07595792	9.04E-07
CTGTCT	C	0.15	0.3784919	0.07468029	7.44E-07
A	G	0.19	0.3267667	0.07040726	5.31E-06
G	A	0.15	0.3746344	0.0745361	9.07E-07

G	A	0.15	0.3746344	0.0745361	9.07E-07
C	T	0.13	0.3833618	0.07866098	1.85E-06
G	A	0.17	0.3257812	0.07228283	9.58E-06
A	G	0.17	0.3279546	0.0723021	8.44E-06
T	G	0.14	0.382085	0.07733781	1.36E-06
T	G	0.15	0.3746344	0.0745361	9.07E-07
G	C	0.15	0.368631	0.07398744	1.12E-06
C	T	0.19	0.3393764	0.06919797	1.60E-06
G	T	0.15	0.3746344	0.0745361	9.07E-07
G	A	0.15	0.3585776	0.07490568	2.75E-06
A	G	0.15	0.3746344	0.0745361	9.07E-07
C	T	0.15	0.3620577	0.0755969	2.72E-06
A	G	0.18	0.339847	0.07107672	2.82E-06
C	A	0.13	0.3783582	0.07933653	2.99E-06
C	G	0.18	0.3200768	0.07052608	8.35E-06
T	C	0.15	0.3762696	0.07389667	6.65E-07
G	A	0.19	0.3308188	0.06986059	3.48E-06
C	T	0.15	0.3945257	0.07486938	2.82E-07
A	G	0.15	0.3801567	0.07386328	5.11E-07
T	G	0.16	0.3813686	0.07316587	3.73E-07
T	C	0.19	0.3308188	0.06986059	3.48E-06
C	T	0.19	0.3403309	0.0699175	1.90E-06
A	G	0.19	0.3308188	0.06986059	3.48E-06
G	A	0.14	0.3857947	0.07726044	1.06E-06
T	A	0.13	0.3748664	0.078263	2.72E-06
G	C	0.13	0.3888563	0.07821833	1.17E-06
A	G	0.15	0.3674269	0.07455447	1.44E-06
T	C	0.14	0.3799872	0.07695866	1.38E-06
T	TGAGGTCA	0.14	0.4136497	0.07643074	1.40E-07
T	C	0.15	0.3807654	0.07384258	4.88E-07
G	A	0.14	0.4128277	0.07772636	2.30E-07
G	A	0.19	0.3308188	0.06986059	3.48E-06
C	T	0.15	0.3694577	0.0739488	1.05E-06
A	G	0.19	0.3229805	0.06990947	5.83E-06
G	A	0.16	0.3775341	0.07380285	5.94E-07
C	CA	0.13	0.4193812	0.08001947	3.24E-07
T	C	0.14	0.382085	0.07733781	1.36E-06
C	CA	0.14	0.391895	0.07596434	4.82E-07
A	G	0.14	0.382085	0.07733781	1.36E-06
G	A	0.15	0.3744657	0.07392541	7.54E-07
G	A	0.15	0.3645098	0.0740581	1.48E-06
G	A	0.15	0.3662689	0.07434887	1.45E-06
T	C	0.15	0.370856	0.07417955	1.03E-06
T	A	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.19	0.327656	0.06993072	4.35E-06
G	A	0.14	0.382085	0.07733781	1.36E-06
G	A	0.14	0.382085	0.07733781	1.36E-06
T	C	0.14	0.382085	0.07733781	1.36E-06
G	A	0.14	0.3955865	0.07790478	7.11E-07
C	G	0.19	0.327656	0.06993072	4.35E-06

A	C	0.19	0.3216097	0.06997597	6.48E-06
G	A	0.13	0.3887278	0.07990549	1.93E-06
C	T	0.14	0.4159874	0.07522513	7.75E-08
T	C	0.15	0.3926279	0.07445352	2.77E-07
A	G	0.14	0.4023012	0.07796847	4.80E-07
TAATAAA	T	0.15	0.3965372	0.07459322	2.25E-07
G	T	0.19	0.317747	0.07027377	8.99E-06
G	A	0.19	0.327656	0.06993072	4.35E-06
T	C	0.15	0.3671132	0.07399769	1.23E-06
C	CA	0.13	0.4640577	0.08458226	9.64E-08
T	C	0.15	0.3797839	0.07391296	5.33E-07
C	G	0.19	0.327656	0.06993072	4.35E-06
A	G	0.15	0.3679068	0.07393486	1.15E-06
C	T	0.19	0.327656	0.06993072	4.35E-06
A	G	0.14	0.3843495	0.07689521	1.03E-06
T	A	0.14	0.3843495	0.07689521	1.03E-06
T	C	0.14	0.382085	0.07733781	1.36E-06
A	T	0.19	0.327656	0.06993072	4.35E-06
G	T	0.19	0.327656	0.06993072	4.35E-06
A	G	0.15	0.377969	0.07403774	6.24E-07
A	C	0.15	0.347339	0.07520248	5.86E-06
A	G	0.15	0.3726274	0.07411929	9.02E-07
A	T	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.15	0.3744657	0.07392541	7.54E-07
G	A	0.19	0.327656	0.06993072	4.35E-06
T	G	0.14	0.3571823	0.07775975	6.56E-06
T	C	0.15	0.379089	0.07442138	6.59E-07
C	T	0.19	0.327656	0.06993072	4.35E-06
T	A	0.15	0.3744657	0.07392541	7.54E-07
T	C	0.15	0.3583597	0.07384882	2.04E-06
A	C	0.16	0.3627258	0.07308681	1.22E-06
A	G	0.15	0.3459767	0.07374618	4.24E-06
A	G	0.16	0.3645259	0.07313584	1.11E-06
C	T	0.16	0.3602192	0.07315026	1.46E-06
A	G	0.15	0.3737906	0.07411008	8.35E-07
G	A	0.15	0.3744657	0.07392541	7.54E-07
T	A	0.15	0.3744657	0.07392541	7.54E-07
T	A	0.19	0.3374035	0.07021208	2.53E-06
A	G	0.14	0.3955535	0.07779981	6.89E-07
C	T	0.14	0.3955535	0.07779981	6.89E-07
T	C	0.18	0.3350584	0.07034909	3.07E-06
G	T	0.19	0.3274204	0.06998891	4.50E-06
C	T	0.15	0.3744657	0.07392541	7.54E-07
C	T	0.19	0.327656	0.06993072	4.35E-06
G	C	0.14	0.382085	0.07733781	1.36E-06
A	G	0.14	0.3974914	0.07735024	5.31E-07
G	T	0.14	0.3602148	0.07726836	4.84E-06
A	G	0.15	0.3712829	0.07405059	9.62E-07
A	G	0.19	0.327656	0.06993072	4.35E-06
TC	T	0.14	0.3752858	0.0829444	8.87E-06

A	G	0.15	0.3702444	0.07453739	1.20E-06
C	T	0.15	0.3811625	0.07393596	4.91E-07
G	A	0.14	0.382085	0.07733781	1.36E-06
C	A	0.15	0.3744657	0.07392541	7.54E-07
C	T	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.15	0.3751587	0.07399455	7.37E-07
C	G	0.14	0.382085	0.07733781	1.36E-06
C	T	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.15	0.3744657	0.07392541	7.54E-07
G	A	0.15	0.3744657	0.07392541	7.54E-07
C	T	0.15	0.3744657	0.07392541	7.54E-07
G	A	0.15	0.3744657	0.07392541	7.54E-07
A	C	0.14	0.382085	0.07733781	1.36E-06
G	A	0.19	0.327656	0.06993072	4.35E-06
C	T	0.15	0.3744657	0.07392541	7.54E-07
G	T	0.18	0.3401772	0.07011431	2.05E-06
A	G	0.19	0.3322321	0.06995745	3.27E-06
T	C	0.19	0.3239207	0.06987321	5.43E-06
G	A	0.15	0.3642346	0.07438386	1.66E-06
A	G	0.15	0.3655091	0.07446817	1.58E-06
T	C	0.18	0.3222583	0.07050555	7.25E-06
GATAA	G	0.14	0.3867833	0.07754948	1.09E-06
T	C	0.15	0.3744657	0.07392541	7.54E-07
A	G	0.14	0.3810078	0.07638243	1.09E-06
T	C	0.15	0.3744657	0.07392541	7.54E-07
G	A	0.15	0.3744657	0.07392541	7.54E-07
T	C	0.16	0.3670446	0.07391756	1.21E-06
C	T	0.14	0.3730778	0.07686775	2.03E-06
T	C	0.15	0.3744657	0.07392541	7.54E-07
T	C	0.18	0.3253931	0.07104048	6.94E-06
A	G	0.14	0.382085	0.07733781	1.36E-06
C	T	0.14	0.382085	0.07733781	1.36E-06
A	G	0.15	0.3744657	0.07392541	7.54E-07
C	G	0.16	0.3613132	0.07375866	1.65E-06
G	A	0.15	0.3744657	0.07392541	7.54E-07
C	T	0.19	0.3254049	0.06996474	5.08E-06
A	G	0.16	0.3641085	0.07345025	1.25E-06
G	C	0.16	0.3641085	0.07345025	1.25E-06
A	G	0.14	0.3704511	0.07676978	2.31E-06
A	G	0.14	0.3704511	0.07676978	2.31E-06
A	G	0.14	0.3704511	0.07676978	2.31E-06
G	A	0.14	0.3604518	0.07578399	3.16E-06
G	A	0.14	0.382085	0.07733781	1.36E-06
C	T	0.14	0.382085	0.07733781	1.36E-06
T	TCCTGGC	0.13	0.3775566	0.07806189	2.19E-06
C	T	0.13	0.3785015	0.07842342	2.30E-06
T	C	0.13	0.3903962	0.07813873	1.05E-06
G	A	0.13	0.3906964	0.07891494	1.29E-06
CCAAA	C	0.13	0.4096271	0.07886806	4.08E-07
CAG	C	0.13	0.3952888	0.07836081	8.32E-07

A	G	0.13	0.3903962	0.07813873	1.05E-06
C	T	0.13	0.3903962	0.07813873	1.05E-06
C	T	0.13	0.3903962	0.07813873	1.05E-06
C	T	0.14	0.3979633	0.07795126	6.24E-07
T	G	0.13	0.3903962	0.07813873	1.05E-06
G	A	0.14	0.393897	0.0773514	6.63E-07
A	G	0.13	0.3942237	0.07814187	8.30E-07
T	A	0.14	0.3438704	0.07624649	9.45E-06
C	G	0.22	0.3040536	0.0668674	8.04E-06
TA	T	0.22	0.3240593	0.0669915	2.19E-06
C	T	0.22	0.3084964	0.06715213	6.54E-06
G	A	0.22	0.3004371	0.06679285	9.96E-06
G	GA	0.22	0.3263502	0.06732434	2.09E-06
G	A	0.23	0.2774612	0.06093077	7.81E-06
A	G	0.22	0.3049343	0.06671066	7.24E-06
A	T	0.22	0.3067301	0.06672419	6.45E-06
C	T	0.22	0.3067301	0.06672419	6.45E-06
T	C	0.22	0.3067301	0.06672419	6.45E-06
G	A	0.22	0.3043721	0.06673043	7.56E-06
C	A	0.22	0.3067301	0.06672419	6.45E-06
C	T	0.21	0.3103307	0.06754924	6.54E-06
C	T	0.22	0.3067301	0.06672419	6.45E-06
A	ACAGGG	0.22	0.2973097	0.06575394	8.99E-06
G	A	0.22	0.3067301	0.06672419	6.45E-06
T	C	0.22	0.3000074	0.06605698	8.23E-06
C	T	0.22	0.3027111	0.06642333	7.69E-06
A	C	0.22	0.3027111	0.06642333	7.69E-06
C	T	0.22	0.3050343	0.06641579	6.57E-06
G	A	0.22	0.3093568	0.06663374	5.27E-06
C	T	0.22	0.3050343	0.06641579	6.57E-06
T	C	0.22	0.3117937	0.06674396	4.63E-06
A	C	0.22	0.3050343	0.06641579	6.57E-06
G	A	0.22	0.3050343	0.06641579	6.57E-06
G	C	0.22	0.3040921	0.06681734	7.90E-06
G	A	0.22	0.3050343	0.06641579	6.57E-06
A	C	0.22	0.3050343	0.06641579	6.57E-06
C	G	0.22	0.3050343	0.06641579	6.57E-06
T	G	0.22	0.3050343	0.06641579	6.57E-06
G	A	0.22	0.3112068	0.06635249	4.26E-06
T	G	0.22	0.3112068	0.06635249	4.26E-06
C	G	0.22	0.3112068	0.06635249	4.26E-06
A	G	0.22	0.3066617	0.06604276	5.25E-06
T	G	0.22	0.3066617	0.06604276	5.25E-06
C	T	0.22	0.3112068	0.06635249	4.26E-06
C	A	0.22	0.3066617	0.06604276	5.25E-06
C	A	0.25	0.2893162	0.06302414	6.64E-06
C	T	0.25	0.2893162	0.06302414	6.64E-06
A	C	0.26	0.285717	0.06273995	7.80E-06
T	C	0.02	0.7670805	0.168592	7.94E-06
A	G	0.04	0.6371763	0.1373466	5.35E-06

T	A	0.03	0.8364851	0.1731332	2.25E-06
A	G	0.03	0.8364851	0.1731332	2.25E-06
C	T	0.03	0.8083691	0.1682268	2.53E-06
C	T	0.08	0.4710354	0.103068	7.26E-06
T	C	0.4	-0.2483503	0.0544194	7.48E-06
G	A	0.07	0.5993661	0.1106926	1.38E-07
C	T	0.08	0.4925995	0.1015753	2.07E-06
T	C	0.09	0.4453486	0.09510491	4.41E-06
G	T	0.07	0.5976218	0.1121038	2.09E-07
T	TA	0.08	0.4667862	0.103151	8.84E-06
C	T	0.07	0.6206697	0.1125194	8.30E-08
G	A	0.07	0.5836238	0.1108589	2.89E-07
C	T	0.07	0.5383269	0.1083167	1.18E-06
G	T	0.29	0.2753454	0.05972644	6.09E-06
C	CTCAAA	0.08	-0.4862309	0.1066212	7.58E-06
A	G	0.08	-0.487592	0.1062686	6.71E-06
A	G	0.08	-0.486437	0.1065979	7.49E-06
A	G	0.08	-0.4828059	0.1062456	8.14E-06
A	G	0.08	-0.4828059	0.1062456	8.14E-06
G	C	0.11	-0.4132739	0.09039065	7.20E-06
T	TATC	0.08	-0.4828059	0.1062456	8.14E-06
T	A	0.08	-0.480033	0.1066481	9.83E-06
C	T	0.08	-0.4853193	0.1067274	8.03E-06
A	G	0.08	-0.4828059	0.1062456	8.14E-06
A	G	0.08	-0.4828059	0.1062456	8.14E-06
T	C	0.08	-0.4829784	0.1063125	8.18E-06
A	G	0.46	-0.2526504	0.05553413	7.96E-06
TAA	T	0.02	1.016252	0.2037187	1.08E-06
G	A	0.19	-0.3397232	0.07025792	2.21E-06
T	G	0.19	-0.3246086	0.07009954	5.56E-06
G	A	0.19	-0.3169216	0.07005019	8.89E-06
C	A	0.38	0.2478679	0.05456699	8.20E-06
G	T	0.04	0.6308856	0.1399021	9.47E-06
C	T	0.04	0.6308856	0.1399021	9.47E-06
T	G	0.06	0.5221472	0.1159169	9.68E-06
C	A	0.06	0.5337672	0.1165059	6.91E-06
C	T	0.25	-0.3115983	0.06350723	1.59E-06
G	C	0.05	0.5593457	0.1211667	5.92E-06
C	T	0.03	-0.7866221	0.1737424	8.76E-06
T	C	0.03	-0.7866221	0.1737424	8.76E-06
G	C	0.03	-0.8069039	0.1762725	7.03E-06
A	C	0.23	0.3140174	0.06654217	3.74E-06
A	G	0.23	0.3221371	0.06653269	2.14E-06
C	T	0.14	-0.35102	0.07775544	9.27E-06
C	T	0.16	0.3413103	0.07583302	9.84E-06
T	TTTCCTTCCTCC	0.02	0.9263202	0.1905604	1.96E-06
C	G	0.02	0.8322941	0.1817352	6.96E-06
G	A	0.02	-0.8301825	0.1741104	3.00E-06
T	C	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07

C	T	0.02	-0.9416557	0.1802914	3.54E-07
T	A	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
G	T	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.8946649	0.1693659	2.65E-07
A	G	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
G	C	0.02	-0.9416557	0.1802914	3.54E-07
G	T	0.02	-0.9416557	0.1802914	3.54E-07
C	T	0.02	-0.9416557	0.1802914	3.54E-07
G	T	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
C	T	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
C	T	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
T	A	0.02	-0.9416557	0.1802914	3.54E-07
T	A	0.02	-0.9416557	0.1802914	3.54E-07
C	G	0.02	-0.9416557	0.1802914	3.54E-07
C	T	0.02	-0.9416557	0.1802914	3.54E-07
A	G	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.8290973	0.1698529	1.79E-06
G	A	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.9416557	0.1802914	3.54E-07
A	G	0.02	-0.9416557	0.1802914	3.54E-07
G	A	0.02	-0.8391546	0.168984	1.20E-06
A	C	0.02	-0.9426955	0.1773633	2.26E-07
T	C	0.03	-0.8331877	0.1661699	9.61E-07
C	T	0.02	-0.9426955	0.1773633	2.26E-07
T	C	0.02	-0.9051731	0.179287	8.16E-07
C	T	0.02	-0.9426955	0.1773633	2.26E-07
C	T	0.02	-0.8889981	0.1727104	5.10E-07
A	G	0.02	-0.8516076	0.1745994	1.82E-06
C	T	0.03	-0.863875	0.1663595	4.10E-07
A	G	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
C	T	0.03	-0.863875	0.1663595	4.10E-07
G	A	0.03	-0.863875	0.1663595	4.10E-07
T	C	0.03	-0.863875	0.1663595	4.10E-07
T	C	0.03	-0.8537973	0.1680209	6.98E-07
T	C	0.02	-0.9155415	0.1748497	3.32E-07
A	T	0.03	-0.863875	0.1663595	4.10E-07
T	A	0.03	-0.836864	0.1688347	1.26E-06

AT	A	0.03	-0.863875	0.1663595	4.10E-07
G	A	0.02	-0.8027792	0.1719599	4.70E-06
T	C	0.02	-0.8889981	0.1727104	5.10E-07
G	A	0.03	-0.863875	0.1663595	4.10E-07
G	A	0.02	-0.9119657	0.1704837	1.91E-07
T	C	0.02	-0.9426955	0.1773633	2.26E-07
A	C	0.02	-0.9119657	0.1704837	1.91E-07
G	C	0.02	-0.9119657	0.1704837	1.91E-07
T	G	0.02	-0.9426955	0.1773633	2.26E-07
A	C	0.02	-0.9426955	0.1773633	2.26E-07
A	G	0.02	-0.9426955	0.1773633	2.26E-07
CAT	C	0.02	-0.9426955	0.1773633	2.26E-07
G	A	0.02	-0.8889981	0.1727104	5.10E-07
G	A	0.02	-0.9426955	0.1773633	2.26E-07
A	G	0.02	-0.9119657	0.1704837	1.91E-07
T	C	0.02	-0.9426955	0.1773633	2.26E-07
A	G	0.02	-0.9426955	0.1773633	2.26E-07
A	AAAAT	0.07	-0.5692898	0.1106805	5.19E-07
A	G	0.02	-0.9426955	0.1773633	2.26E-07
G	A	0.02	-0.9426955	0.1773633	2.26E-07
T	G	0.02	-0.9426955	0.1773633	2.26E-07
C	T	0.02	-0.9426955	0.1773633	2.26E-07
T	TA	0.02	-0.8835466	0.1844069	2.70E-06
C	T	0.02	-1.19787	0.2023338	1.03E-08
G	A	0.02	-0.8336362	0.1728839	2.35E-06
C	G	0.02	-0.8768092	0.1749388	9.70E-07
G	A	0.02	-0.8336362	0.1728839	2.35E-06
T	C	0.02	-0.8279385	0.1746671	3.40E-06
T	C	0.02	-0.8336362	0.1728839	2.35E-06
G	A	0.02	-0.8336362	0.1728839	2.35E-06
AT	A	0.02	-0.8336362	0.1728839	2.35E-06
A	G	0.02	-0.8336362	0.1728839	2.35E-06
T	G	0.02	-0.8690146	0.1722015	8.24E-07
T	C	0.02	-0.827317	0.1702432	1.97E-06
A	C	0.02	-0.827317	0.1702432	1.97E-06
GTAATT	G	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
T	C	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
A	G	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.8690146	0.1722015	8.24E-07
G	A	0.02	-0.827317	0.1702432	1.97E-06
T	C	0.02	-0.827317	0.1702432	1.97E-06
C	G	0.02	-0.827317	0.1702432	1.97E-06
T	C	0.02	-0.827317	0.1702432	1.97E-06
T	G	0.02	-0.827317	0.1702432	1.97E-06
A	G	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.03	-0.7302137	0.1533186	3.07E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
G	C	0.02	-0.827317	0.1702432	1.97E-06

G	A	0.02	-0.827317	0.1702432	1.97E-06
G	C	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
G	T	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
G	C	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
C	A	0.02	-0.827317	0.1702432	1.97E-06
T	A	0.03	-0.6827855	0.1416893	2.38E-06
G	T	0.03	-0.7814902	0.168323	5.27E-06
C	A	0.02	-0.827317	0.1702432	1.97E-06
T	G	0.02	-0.827317	0.1702432	1.97E-06
T	G	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.03	-0.7800274	0.1480853	2.85E-07
G	C	0.02	-0.827317	0.1702432	1.97E-06
T	C	0.02	-0.827317	0.1702432	1.97E-06
C	A	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.03	-0.815821	0.1613796	7.91E-07
T	C	0.03	-0.7571131	0.1560291	2.04E-06
A	G	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
G	C	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.03	-0.7555947	0.1647185	6.74E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
T	C	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
G	T	0.02	-0.827317	0.1702432	1.97E-06
C	G	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
T	G	0.02	-0.827317	0.1702432	1.97E-06
T	A	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.03	-0.7479417	0.1605004	4.88E-06
G	A	0.02	-0.827317	0.1702432	1.97E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
T	A	0.02	-0.827317	0.1702432	1.97E-06
A	T	0.03	-0.7691567	0.1612929	2.99E-06
C	T	0.02	-0.827317	0.1702432	1.97E-06
A	T	0.02	0.8673277	0.1840214	3.84E-06
T	AAGAGCCATGGAGCC	0.03	0.840183	0.1707281	1.48E-06
A	G	0.09	0.4379403	0.09278145	3.72E-06
T	C	0.1	0.4132815	0.09079806	7.88E-06
A	G	0.1	0.4132815	0.09079806	7.88E-06
C	T	0.1	0.4152779	0.09075201	7.08E-06
T	A	0.01	1.182117	0.2592982	7.63E-06

TTC	T	0.01	-1.16674	0.2404951	1.97E-06
CTG	C	0.11	-0.4089216	0.0896975	7.42E-06
AT	A	0.49	-0.2457813	0.05380219	7.12E-06
A	G	0.45	-0.2500084	0.05548902	9.38E-06
T	G	0.34	-0.2449346	0.05426715	9.06E-06
T	C	0.35	-0.2526209	0.05382528	4.07E-06
T	C	0.34	-0.2575546	0.0540308	2.91E-06
T	G	0.35	-0.2412224	0.05351528	9.30E-06
C	G	0.33	-0.2494214	0.05459208	7.10E-06
C	G	0.34	-0.2457449	0.05438877	8.87E-06
C	T	0.21	-0.2955717	0.06557725	9.31E-06
A	G	0.35	-0.2555574	0.05430319	3.84E-06
G	A	0.24	-0.2738898	0.06076315	9.30E-06
G	C	0.34	-0.2531443	0.05482877	5.73E-06
A	C	0.02	-0.8460619	0.187038	8.67E-06
C	G	0.02	-0.859179	0.1899259	8.66E-06
T	C	0.42	0.2615584	0.0544861	2.50E-06
G	T	0.42	0.2534813	0.05443265	4.80E-06
G	A	0.04	-0.5988175	0.1319698	8.15E-06
A	G	0.01	-1.047575	0.2285908	6.67E-06
A	G	0.02	0.8528549	0.1750514	1.79E-06
T	C	0.02	0.8528549	0.1750514	1.79E-06
C	T	0.02	0.8528549	0.1750514	1.79E-06
G	A	0.25	-0.2948195	0.06056765	1.83E-06
G	T	0.27	-0.2838892	0.05830671	1.82E-06
G	C	0.27	-0.2765375	0.05870458	3.76E-06
C	T	0.26	-0.2869145	0.05905357	1.91E-06
G	A	0.27	-0.2837363	0.05871413	2.15E-06
T	A	0.27	-0.2645788	0.05844391	8.54E-06
C	T	0.27	-0.2759505	0.05715587	2.20E-06
G	A	0.28	-0.2839096	0.05698078	1.07E-06
T	A	0.26	-0.3002047	0.05875249	5.83E-07
G	A	0.26	-0.2839744	0.058874	2.25E-06
G	A	0.26	-0.2862054	0.05890692	1.91E-06
T	C	0.26	-0.2906472	0.05902286	1.41E-06
GT	G	0.38	-0.2230692	0.0490042	7.65E-06
G	A	0.26	-0.2885897	0.05924317	1.80E-06
G	A	0.27	-0.2790111	0.05909895	3.59E-06
G	C	0.26	-0.2838373	0.0590707	2.45E-06
C	T	0.27	-0.2669575	0.05836651	6.94E-06
G	A	0.27	-0.2891891	0.05904261	1.59E-06
C	T	0.27	-0.2740129	0.05858414	4.37E-06
A	G	0.27	0.2755617	0.06120704	9.52E-06
CGT	C	0.01	1.179021	0.2524972	4.53E-06
T	C	0.01	-1.302043	0.2287981	3.18E-08
A	G	0.01	-1.292229	0.2680435	2.27E-06
A	G	0.02	-0.8350431	0.1816513	6.27E-06
G	T	0.33	-0.241936	0.05362751	9.14E-06
G	C	0.32	-0.2440061	0.05379506	8.21E-06
G	A	0.28	-0.2781397	0.06107474	7.58E-06

A	G	0.44	-0.2478977	0.05392308	6.26E-06
T	TTCTA	0.4	-0.2796489	0.0554761	8.11E-07
C	T	0.44	-0.2682905	0.05424203	1.27E-06
T	G	0.43	-0.2781845	0.05417491	5.16E-07
A	T	0.41	-0.2597407	0.05463438	3.09E-06
T	C	0.41	-0.2597407	0.05463438	3.09E-06
G	C	0.48	0.2598368	0.0533598	1.82E-06
T	C	0.41	-0.2622127	0.05506083	2.98E-06
C	T	0.41	-0.2592871	0.05502872	3.74E-06
A	G	0.42	-0.2653504	0.05410897	1.55E-06
G	A	0.49	0.2458369	0.05313304	5.49E-06
G	C	0.42	-0.2466698	0.05412214	7.46E-06
A	G	0.43	-0.2560552	0.05415772	3.48E-06
G	T	0.47	0.2677077	0.05301814	7.79E-07
A	T	0.47	0.2677077	0.05301814	7.79E-07
T	A	0.43	-0.2625937	0.05408715	1.94E-06
G	A	0.49	0.2471179	0.05306381	4.79E-06
A	G	0.43	-0.2625937	0.05408715	1.94E-06
A	G	0.41	-0.2686065	0.05440662	1.32E-06
T	C	0.41	-0.2562526	0.05466032	4.17E-06
A	G	0.36	-0.2946762	0.05825867	7.47E-07
T	C	0.41	-0.26153	0.05515449	3.27E-06
T	C	0.41	-0.2641973	0.05492411	2.39E-06
GA	G	0.41	-0.2650276	0.0549312	2.23E-06
T	G	0.44	-0.2639412	0.05339063	1.28E-06
G	A	0.35	-0.2761878	0.05875585	3.94E-06
C	A	0.38	-0.2728993	0.05730816	2.98E-06
C	T	0.31	-0.2711152	0.0585122	5.32E-06
ATAAGT	A	0.27	0.2904251	0.06046928	2.47E-06
C	A	0.27	0.2937392	0.06020728	1.74E-06
G	A	0.02	-0.8245758	0.1817056	8.13E-06
G	GT	0.23	0.3095019	0.06436305	2.40E-06
GAA	G	0.01	-1.135675	0.2388739	3.09E-06
C	T	0.01	-1.149271	0.2522788	7.53E-06
T	C	0.01	-1.149271	0.2522788	7.53E-06
T	C	0.01	-1.149271	0.2522788	7.53E-06
C	T	0.01	-1.149271	0.2522788	7.53E-06
C	T	0.02	-0.978016	0.2165067	8.91E-06
A	AGTGTGT	0.01	-1.142815	0.2498923	6.96E-06
G	A	0.11	-0.3768278	0.08079813	4.65E-06
C	G	0.11	-0.39501	0.08745249	8.93E-06
C	T	0.01	-0.9751437	0.2155737	8.67E-06
A	C	0.04	-0.6782407	0.1452277	4.52E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
G	A	0.02	-0.8095045	0.1800637	9.79E-06
C	A	0.02	-0.8095045	0.1800637	9.79E-06
G	A	0.02	-0.8095045	0.1800637	9.79E-06
T	C	0.02	-0.8132464	0.1771625	6.45E-06
A	G	0.02	-0.7966869	0.1711905	4.86E-06
G	C	0.02	-0.8095045	0.1800637	9.79E-06

T	C	0.02	-0.7966869	0.1711905	4.86E-06
G	T	0.02	-0.8095045	0.1800637	9.79E-06
C	A	0.02	-0.7966869	0.1711905	4.86E-06
A	G	0.02	-0.8095045	0.1800637	9.79E-06
T	G	0.02	-0.8058786	0.1756261	6.50E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
A	G	0.02	-0.8095045	0.1800637	9.79E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
G	A	0.02	-0.8095045	0.1800637	9.79E-06
G	A	0.02	-0.8094887	0.1729167	4.29E-06
C	T	0.02	-0.8094887	0.1729167	4.29E-06
C	T	0.02	-0.8094887	0.1729167	4.29E-06
T	C	0.02	-0.8095045	0.1800637	9.79E-06
TC	T	0.02	-0.8191771	0.1755674	4.60E-06
T	C	0.02	-0.8095045	0.1800637	9.79E-06
A	C	0.02	-0.8132464	0.1771625	6.45E-06
A	G	0.02	-0.8095045	0.1800637	9.79E-06
T	C	0.02	-0.8095045	0.1800637	9.79E-06
G	A	0.02	-0.7966869	0.1711905	4.86E-06
A	G	0.02	-0.8340105	0.1827838	7.29E-06
G	A	0.02	-0.8095045	0.1800637	9.79E-06
A	G	0.02	-0.7966869	0.1711905	4.86E-06
C	T	0.02	-0.7966869	0.1711905	4.86E-06
T	C	0.02	-0.8095045	0.1800637	9.79E-06
T	C	0.02	-0.7966869	0.1711905	4.86E-06
G	C	0.02	-0.8095045	0.1800637	9.79E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
T	C	0.02	-0.8095045	0.1800637	9.79E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
G	T	0.02	-0.8095045	0.1800637	9.79E-06
C	T	0.02	-0.8095045	0.1800637	9.79E-06
T	TGA	0.01	-1.144848	0.2386125	2.53E-06
T	G	0.43	-0.2572313	0.05662866	7.98E-06
C	CTTTCT	0.01	1.051079	0.2337728	9.77E-06
T	A	0.25	-0.2794409	0.06023409	5.19E-06
G	A	0.11	0.3916454	0.08680786	9.13E-06
G	A	0.1	0.4634319	0.09039322	5.37E-07
CT	C	0.08	0.428314	0.09502281	9.30E-06
C	T	0.02	-0.9375829	0.2079252	9.23E-06
TA	T	0.16	0.3426761	0.07541683	7.93E-06
A	G	0.29	0.2620414	0.05783192	8.39E-06
G	A	0.29	0.2609713	0.05791839	9.37E-06
T	C	0.29	0.2621753	0.05794795	8.64E-06
G	A	0.04	0.6518195	0.1366399	2.87E-06
G	A	0.39	0.2466452	0.05474223	9.38E-06
C	G	0.22	0.3092049	0.06476745	2.82E-06
G	T	0.21	0.3082118	0.06621456	4.84E-06
G	A	0.33	-0.2743017	0.05747391	2.84E-06
A	G	0.33	-0.2766863	0.05749979	2.37E-06

A	T	0.33	-0.2697388	0.05764551	4.34E-06
A	G	0.34	-0.271386	0.05786773	4.13E-06
T	C	0.34	-0.2640456	0.05774162	6.97E-06
G	A	0.07	-0.4855827	0.1020803	3.05E-06
T	C	0.41	0.2519029	0.05501297	6.79E-06
T	C	0.41	0.2470833	0.05490895	9.62E-06
G	T	0.39	0.2446838	0.05401338	8.42E-06
A	ATAGAC	0.25	0.2753079	0.06086983	8.69E-06
C	T	0.25	0.2810414	0.06008876	4.38E-06
G	A	0.24	0.2782985	0.06053297	6.25E-06
C	A	0.24	0.2764327	0.06058398	7.29E-06
G	C	0.24	0.2729695	0.06038247	8.78E-06
T	C	0.24	0.2742512	0.06035279	7.92E-06
T	C	0.24	0.2729695	0.06038247	8.78E-06
A	C	0.24	0.2736832	0.06058085	8.89E-06
T	A	0.02	-0.4206133	0.09010507	4.56E-06
A	C	0.02	-0.4290881	0.08992528	2.85E-06
A	C	0.34	0.1052526	0.02343079	9.94E-06
A	G	0.02	-0.3721032	0.08212892	8.39E-06
G	GACAC	0.14	0.1666666	0.03328592	9.51E-07
C	CT	0.03	-0.2969938	0.06220159	2.81E-06
C	T	0.03	-0.3085777	0.06679581	5.66E-06
G	T	0.01	-0.476662	0.1043124	7.07E-06
CCGTGGAAAGAGAGC	G	0.07	-0.1886947	0.0411386	6.55E-06
T	C	0.04	-0.2587298	0.05504408	3.94E-06
T	C	0.01	-0.4492279	0.09870292	7.66E-06
C	A	0.02	-0.4158476	0.09010529	5.77E-06
TA	T	0.12	-0.1563368	0.03436507	7.73E-06
G	T	0.07	-0.1963718	0.04288502	6.78E-06
A	AAC	0.02	-0.3758943	0.08325823	9.00E-06
G	T	0.02	-0.4190231	0.09019282	5.03E-06
A	T	0.02	-0.3758943	0.08325823	9.00E-06
G	T	0.02	-0.3706839	0.08049746	6.04E-06
C	A	0.02	-0.4188661	0.09014967	5.02E-06
C	A	0.01	-0.4831802	0.09393454	4.94E-07
C	T	0.01	-0.4831802	0.09393454	4.94E-07
C	CGTGT	0.02	-0.3566631	0.07698625	5.33E-06
T	C	0.03	-0.299574	0.06643232	9.21E-06
CTG	C	0.04	-0.2557041	0.05515837	5.26E-06
A	C	0.07	-0.2035532	0.04470577	7.60E-06
CTT	C	0.02	-0.3523166	0.07552068	4.61E-06
G	GA	0.32	-0.104084	0.02300231	8.61E-06
G	A	0.02	-0.3139389	0.06779678	5.39E-06
G	A	0.08	-0.2241673	0.04085996	9.06E-08
G	C	0.36	-0.102234	0.02094782	1.72E-06
C	T	0.37	-0.1042797	0.02287416	7.41E-06
G	C	0.02	-0.3756273	0.08249321	7.59E-06
C	CA	0.08	-0.174765	0.03866481	8.80E-06
TC	T	0.01	-0.5159717	0.1110404	5.01E-06
C	T	0.19	-0.1269317	0.02754538	5.96E-06

C	A	0.1	-0.1887544	0.03737932	7.76E-07
C	T	0.01	-0.5066541	0.1112595	7.58E-06
C	T	0.01	-0.4308608	0.09426064	7.03E-06
T	C	0.02	-0.3992974	0.08624942	5.41E-06
A	ACACAGACTCTCACAT	0.02	-0.3531888	0.0780201	8.53E-06
C	T	0.03	-0.2922217	0.06286685	4.98E-06
A	AAT	0.05	-0.2547698	0.05185941	1.48E-06
A	AAAC	0.03	0.7393968	0.1612029	6.59E-06
G	A	0.2	0.3056351	0.06593545	5.30E-06
C	G	0.33	0.2551589	0.05611734	7.86E-06
A	G	0.08	-0.433184	0.09579032	8.76E-06
C	T	0.04	0.6718715	0.1436741	4.41E-06
C	G	0.01	-1.163624	0.2585791	9.65E-06
A	ATGTGTGTGTG	0.05	0.5769516	0.1283561	9.87E-06
C	A	0.09	0.4301232	0.09531463	9.13E-06
C	T	0.01	1.162955	0.2575088	8.99E-06
G	A	0.22	0.2986265	0.06451637	5.47E-06
C	T	0.22	0.2932289	0.0645557	8.02E-06
C	G	0.22	0.2986265	0.06451637	5.47E-06
A	G	0.22	0.2920966	0.06420481	7.77E-06
G	A	0.22	0.2942177	0.06420905	6.72E-06
G	T	0.22	0.2953121	0.06366508	5.23E-06
TTTTA	T	0.13	-0.3932823	0.08133327	2.14E-06
A	T	0.01	-1.161486	0.2568959	8.79E-06
G	C	0.01	-1.161486	0.2568959	8.79E-06
A	G	0.01	-1.161486	0.2568959	8.79E-06
G	A	0.01	-1.161486	0.2568959	8.79E-06
G	T	0.09	0.4131053	0.0910511	8.20E-06
A	G	0.42	-0.2508385	0.05257216	2.87E-06
C	T	0.42	-0.2555361	0.05248462	1.83E-06
C	T	0.42	-0.2501362	0.05372749	4.84E-06
G	A	0.39	0.2556765	0.05566223	6.40E-06
A	G	0.42	-0.2642964	0.05352781	1.33E-06
T	C	0.42	-0.2434526	0.05385003	8.80E-06
A	AT	0.42	-0.241785	0.05341529	8.59E-06
A	C	0.43	-0.2489814	0.05341725	4.73E-06
G	T	0.42	-0.2494436	0.05298507	3.83E-06
CTTTCTTTCTTTCATT(	C	0.07	-0.456641	0.09705078	3.88E-06
C	T	0.01	-1.190179	0.2607276	7.26E-06
C	T	0.01	-1.107944	0.2278208	1.88E-06
A	G	0.02	-0.8188958	0.1763778	5.13E-06
A	T	0.01	-1.142012	0.2362906	2.16E-06
A	AT	0.04	0.6361276	0.1383827	6.30E-06
T	C	0.01	-1.054882	0.2292222	6.16E-06
C	T	0.01	-1.001353	0.2194732	7.33E-06
T	C	0.01	-1.001353	0.2194732	7.33E-06
G	C	0.03	0.6821732	0.1484669	6.36E-06
T	C	0.01	-1.155385	0.2449612	3.68E-06
A	G	0.35	0.2464266	0.05476345	9.66E-06
T	C	0.22	0.2942716	0.06512671	8.90E-06

C	T	0.22	0.2952015	0.06542535	9.16E-06
T	G	0.22	0.2937981	0.06498959	8.81E-06
G	A	0.22	0.2937981	0.06498959	8.81E-06
C	T	0.22	0.2937981	0.06498959	8.81E-06
A	C	0.22	0.2937981	0.06498959	8.81E-06
C	T	0.22	0.2937981	0.06498959	8.81E-06
G	C	0.22	0.2937981	0.06498959	8.81E-06
C	CATTT	0.21	0.3159667	0.06707414	3.78E-06
T	C	0.17	0.3248501	0.07216653	9.59E-06
A	G	0.17	0.3331841	0.07270955	6.71E-06
A	T	0.17	0.3378911	0.07255131	4.81E-06
G	A	0.08	-0.4764589	0.1024387	4.94E-06
C	T	0.01	1.233901	0.2628792	4.08E-06
A	G	0.04	-0.6820851	0.1464115	4.78E-06
C	G	0.01	-1.072127	0.235089	7.40E-06
C	G	0.03	-0.7192946	0.156449	6.25E-06
G	T	0.24	0.3012881	0.06579483	6.78E-06
A	G	0.45	-0.2534268	0.05621594	9.28E-06
T	A	0.01	-1.178882	0.2566188	6.36E-06
A	G	0.01	-1.081664	0.2302917	4.01E-06
C	T	0.02	-1.094042	0.2195229	1.06E-06
C	T	0.02	-1.126668	0.2225249	7.30E-07
C	T	0.02	-1.055006	0.2152826	1.57E-06
T	G	0.25	0.2829881	0.06177796	6.74E-06
A	T	0.25	0.2804386	0.06151514	7.42E-06
T	TGGG	0.01	-1.218922	0.2619391	4.87E-06
T	C	0.01	-1.110961	0.2322926	2.71E-06
AAC	A	0.02	0.8677112	0.1928835	9.67E-06
A	T	0.08	-0.4310051	0.09428698	7.03E-06
C	T	0.08	-0.426209	0.09403327	8.34E-06
C	T	0.08	-0.4444376	0.09448925	3.89E-06
T	CTCAGGAACTTACA	0.11	-0.3936069	0.08518424	5.64E-06
A	T	0.01	-1.214752	0.2692134	9.11E-06
C	T	0.44	-0.2514061	0.05485333	6.66E-06
T	G	0.43	-0.2557814	0.05491557	4.78E-06
G	C	0.48	0.252607	0.05410739	4.55E-06
G	T	0.47	0.2610658	0.05367304	1.86E-06
A	T	0.47	0.2610658	0.05367304	1.86E-06
T	A	0.03	0.7230311	0.1509181	2.61E-06
A	C	0.32	-0.2743061	0.05764797	3.03E-06
G	A	0.41	0.2195865	0.0482555	7.70E-06
G	A	0.1	0.3995999	0.08787804	7.81E-06
G	T	0.24	-0.292892	0.0630888	5.12E-06
T	C	0.24	-0.2933998	0.06310132	4.95E-06
T	C	0.24	-0.2964384	0.06309054	3.97E-06
A	G	0.24	-0.2933998	0.06310132	4.95E-06
T	C	0.24	-0.2933998	0.06310132	4.95E-06
T	C	0.01	1.108268	0.2302028	2.34E-06
CTG	C	0.07	0.5709959	0.1078792	2.39E-07
G	GAAGA	0.08	0.4487246	0.09695982	5.46E-06

AT	A	0.07	-0.4700745	0.1031827	7.53E-06
T	A	0.05	0.550364	0.1225358	9.98E-06
T	TACACACACAC	0.17	-0.3861577	0.07702356	9.24E-07
G	A	0.1	0.4196462	0.09152486	6.61E-06
G	T	0.26	0.2829118	0.0609876	5.20E-06
G	T	0.26	0.2787099	0.06104518	7.20E-06
T	A	0.26	0.277976	0.06084997	7.12E-06
CT	C	0.26	0.280313	0.06105551	6.43E-06
G	A	0.25	0.2858722	0.06102331	4.23E-06
C	G	0.26	0.2722289	0.06022361	8.80E-06
C	T	0.03	0.6926598	0.1529854	8.52E-06
G	A	0.33	-0.2729087	0.05823957	4.21E-06
A	G	0.33	-0.2746699	0.05827132	3.71E-06
A	T	0.33	-0.2702396	0.05839862	5.47E-06
A	G	0.34	-0.2701938	0.05863193	5.96E-06
T	C	0.34	-0.2632758	0.05849637	9.58E-06
A	G	0.07	-0.4679899	0.09909243	3.56E-06
G	A	0.02	1.036978	0.2254778	6.21E-06
T	C	0.21	0.308683	0.06588896	4.23E-06
AT	A	0.21	-0.2884669	0.06321469	7.28E-06
CAG	C	0.1	0.1842523	0.03859362	2.81E-06
T	C	0.03	0.3133629	0.06210751	7.92E-07
A	G	0.03	0.3133629	0.06210751	7.92E-07
C	T	0.03	0.3133629	0.06210751	7.92E-07
GTGTGTGTGTGTGTG	T	0.03	0.3214678	0.06254521	5.04E-07
C	A	0.03	0.2981013	0.06382299	4.50E-06
CGTGT	C	0.02	0.3813539	0.08368473	7.47E-06
G	A	0.48	0.09644392	0.02108602	6.94E-06
G	C	0.3	0.1065032	0.02308049	5.79E-06
T	G	0.35	0.09912253	0.02191758	8.70E-06
A	G	0.35	0.1011055	0.02186003	5.52E-06
T	C	0.36	0.09846006	0.02171854	8.29E-06
G	T	0.36	0.09880901	0.02176844	8.09E-06
T	A	0.35	0.1010612	0.021779	5.16E-06
A	C	0.35	0.09928926	0.02183882	7.83E-06
T	C	0.01	0.4703738	0.09578449	1.50E-06
A	G	0.01	0.5149355	0.1109233	5.11E-06
G	T	0.01	0.5183329	0.1092175	3.20E-06
T	C	0.09	0.1765214	0.03787477	4.71E-06
C	A	0.03	0.3313659	0.06677243	1.17E-06
T	G	0.28	0.1088713	0.02413784	9.17E-06
A	G	0.07	0.2040237	0.04483561	7.69E-06
CAA	C	0.02	0.4448908	0.08509304	3.28E-07
C	G	0.01	0.4965256	0.1078748	6.10E-06
G	A	0.02	0.4494046	0.0849943	2.45E-07
G	A	0.01	0.5070418	0.1100459	5.97E-06
A	ACACC	0.14	0.1599228	0.03501384	7.14E-06
AT	A	0.02	0.4109849	0.08981794	6.88E-06
G	C	0.01	0.4299593	0.09563227	9.77E-06
G	A	0.01	0.4231847	0.09399656	9.51E-06

G	C	0.01	0.539304	0.1043063	4.34E-07
A	C	0.01	0.5905186	0.107468	8.68E-08
G	GT	0.01	0.5878435	0.1066848	8.03E-08
T	C	0.01	0.5878435	0.1066848	8.03E-08
T	C	0.01	0.5878435	0.1066848	8.03E-08
G	A	0.02	0.3854985	0.08045305	2.60E-06
T	A	0.02	0.3652457	0.07918831	5.84E-06
A	G	0.02	0.3652457	0.07918831	5.84E-06
T	C	0.02	0.3652457	0.07918831	5.84E-06
T	A	0.02	0.3652457	0.07918831	5.84E-06
C	T	0.02	0.3652457	0.07918831	5.84E-06
G	T	0.02	0.3854985	0.08045305	2.60E-06
T	A	0.02	0.3854985	0.08045305	2.60E-06
T	C	0.02	0.3652457	0.07918831	5.84E-06
GT	G	0.02	0.3854985	0.08045305	2.60E-06
A	G	0.02	0.3652457	0.07918831	5.84E-06
G	A	0.02	0.3854985	0.08045305	2.60E-06
G	A	0.02	0.3854985	0.08045305	2.60E-06
C	T	0.02	0.3652457	0.07918831	5.84E-06
G	T	0.02	0.3652457	0.07918831	5.84E-06
G	C	0.02	0.3611401	0.07659768	3.69E-06
A	G	0.02	0.3854985	0.08045305	2.60E-06
G	C	0.02	0.3854985	0.08045305	2.60E-06
C	T	0.02	0.3871939	0.08059311	2.45E-06
C	T	0.02	0.3854985	0.08045305	2.60E-06
T	A	0.02	0.3652457	0.07918831	5.84E-06
A	C	0.01	0.4767279	0.09906049	2.36E-06
G	C	0.45	0.1032818	0.02187775	3.59E-06
C	T	0.32	0.1049432	0.02325166	9.06E-06
C	A	0.02	0.3656839	0.07892625	5.32E-06
G	A	0.25	0.1328163	0.02519453	2.65E-07
T	C	0.38	0.1189381	0.02231351	1.98E-07
C	T	0.38	0.1189381	0.02231351	1.98E-07
G	A	0.42	0.1080986	0.0219867	1.46E-06
G	A	0.38	0.1189381	0.02231351	1.98E-07
G	A	0.38	0.1145416	0.02240988	5.78E-07
T	C	0.38	0.1193782	0.02236554	1.91E-07
C	G	0.39	0.118111	0.02235749	2.51E-07
G	A	0.39	0.118111	0.02235749	2.51E-07
A	C	0.35	0.1147369	0.02277503	8.22E-07
AACG	A	0.43	0.1010907	0.02190391	5.77E-06
G	T	0.42	0.1015014	0.02195876	5.59E-06
T	C	0.42	0.1028562	0.02195662	4.23E-06
T	A	0.42	0.1048779	0.02202369	2.97E-06
A	C	0.42	0.1075736	0.02189757	1.48E-06
G	A	0.39	0.115401	0.0223528	4.51E-07
A	G	0.38	0.1121141	0.02237392	9.34E-07
C	T	0.38	0.1161661	0.02238333	3.95E-07
G	A	0.38	0.1140315	0.02230769	5.77E-07
CAA	C	0.38	0.1140683	0.02229795	5.66E-07

G	T	0.39	0.115401	0.0223528	4.51E-07
G	A	0.39	0.115401	0.0223528	4.51E-07
G	A	0.38	0.1118315	0.02240438	1.02E-06
A	G	0.39	0.115401	0.0223528	4.51E-07
T	C	0.42	0.1047049	0.02202599	3.09E-06
G	A	0.38	0.1132372	0.02235389	7.19E-07
T	G	0.39	0.115401	0.0223528	4.51E-07
G	T	0.38	0.1087153	0.02244974	2.05E-06
CT	C	0.38	0.114239	0.02230751	5.51E-07
G	T	0.38	0.1167448	0.02238331	3.48E-07
G	A	0.39	0.115401	0.0223528	4.51E-07
G	A	0.39	0.115401	0.0223528	4.51E-07
C	T	0.39	0.115401	0.0223528	4.51E-07
A	C	0.39	0.1110382	0.02230549	1.09E-06
G	T	0.33	0.1202259	0.02306429	3.54E-07
G	A	0.35	0.1216059	0.02296542	2.36E-07
C	T	0.35	0.1241838	0.02295852	1.34E-07
C	T	0.35	0.1231074	0.02297003	1.71E-07
A	G	0.35	0.1241838	0.02295852	1.34E-07
G	A	0.34	0.1236163	0.02304781	1.68E-07
TACAC	T	0.32	0.137335	0.02391405	2.42E-08
C	A	0.35	0.1246629	0.02294078	1.18E-07
A	T	0.35	0.1256632	0.02297874	9.91E-08
T	C	0.35	0.1241838	0.02295852	1.34E-07
A	G	0.37	0.108355	0.02209334	1.54E-06
A	G	0.36	0.1177655	0.02250874	3.22E-07
A	G	0.36	0.1197254	0.02277103	2.83E-07
A	C	0.35	0.120369	0.02294128	2.99E-07
G	A	0.36	0.1052991	0.02265208	4.97E-06
A	C	0.36	0.1203752	0.02296307	3.06E-07
T	C	0.35	0.1176528	0.02296166	5.44E-07
C	T	0.35	0.1221515	0.02304907	2.31E-07
T	A	0.36	0.1136759	0.02284825	1.11E-06
C	T	0.35	0.1185445	0.02317248	5.66E-07
A	G	0.38	0.112164	0.02283229	1.48E-06
A	T	0.35	0.1194626	0.02319442	4.78E-07
A	G	0.38	0.1082043	0.02269692	2.90E-06
C	T	0.35	0.1180759	0.02313016	5.96E-07
A	AAC	0.07	0.2139036	0.04558113	4.07E-06
G	C	0.29	0.1254906	0.02508753	9.74E-07
T	TACACAC	0.01	0.4779413	0.102348	4.52E-06
C	A	0.13	0.1510653	0.03228063	4.32E-06
T	C	0.11	0.1577543	0.03462312	7.50E-06
C	A	0.02	0.3672904	0.08146179	9.24E-06
G	C	0.02	0.3498375	0.07367902	3.17E-06
C	T	0.03	0.3427479	0.06979353	1.50E-06
T	C	0.02	0.3498375	0.07367902	3.17E-06
C	CTTCT	0.01	0.5212643	0.1106645	3.76E-06
C	T	0.03	0.2899894	0.06326604	6.64E-06
G	A	0.01	0.4256751	0.09365995	7.88E-06

C	T	0.01	0.4709896	0.09554749	1.37E-06
T	C	0.03	0.3122163	0.06773252	5.92E-06
A	T	0.23	0.1167199	0.02596793	9.82E-06
C	T	0.01	0.4538827	0.1009422	9.75E-06
ACT	A	0.12	0.1549164	0.03318836	4.56E-06
A	G	0.02	0.4060269	0.08745424	5.10E-06
G	A	0.02	0.3829004	0.08387635	7.21E-06
T	C	0.01	0.4781531	0.1031208	5.24E-06
G	A	0.01	0.4781531	0.1031208	5.24E-06
GT	G	0.03	0.3448223	0.06916269	1.05E-06
C	CTGTG	0.02	0.3720749	0.07523548	1.27E-06
G	A	0.15	0.1354825	0.02985398	8.12E-06
G	A	0.02	0.3725616	0.07782477	2.65E-06
T	C	0.02	0.3725616	0.07782477	2.65E-06
C	T	0.24	0.1241216	0.02679614	5.35E-06
C	T	0.24	0.1215942	0.02702804	9.65E-06
CA	C	0.24	0.1264043	0.02736364	5.66E-06
G	A	0.24	0.1236483	0.02702643	6.90E-06
A	T	0.24	0.1241216	0.02679614	5.35E-06
T	A	0.03	0.3313187	0.07170003	5.63E-06
A	G	0.01	0.519939	0.1107461	4.04E-06
T	C	0.01	0.519939	0.1107461	4.04E-06
A	G	0.01	0.519939	0.1107461	4.04E-06
A	G	0.01	0.519939	0.1107461	4.04E-06
A	T	0.01	0.519939	0.1107461	4.04E-06
C	T	0.01	0.519939	0.1107461	4.04E-06
G	C	0.01	0.519939	0.1107461	4.04E-06
A	G	0.02	0.3350291	0.07233071	5.36E-06
G	A	0.15	0.1341542	0.02980876	9.58E-06
GCA	G	0.29	0.1138316	0.02524087	9.20E-06
ACATTATGTTAAGTA	T	0.06	0.2074239	0.04469958	5.16E-06
C	T	0.06	0.206855	0.04381988	3.59E-06
G	A	0.44	0.1034426	0.0226706	7.28E-06
A	G	0.27	0.1076364	0.02380001	8.70E-06
A	G	0.27	0.1089133	0.02391228	7.55E-06
T	C	0.06	0.2291707	0.04775039	2.51E-06
GT	G	0.08	0.1822659	0.04051389	9.65E-06
C	G	0.02	0.4004539	0.08178497	1.60E-06
A	ATGGAA	0.01	0.4820001	0.1051968	6.69E-06
C	T	0.07	0.2045409	0.04404352	5.07E-06
T	TTCTC	0.06	0.2108525	0.0466725	8.88E-06
G	A	0.01	0.4569108	0.1013018	9.17E-06
C	CTT	0.02	0.3628845	0.0778068	4.64E-06
T	C	0.28	0.1101134	0.02369424	5.00E-06
T	A	0.01	0.4783797	0.1039311	6.10E-06
G	A	0.01	0.4783797	0.1039311	6.10E-06
G	GT	0.06	0.2173474	0.04697227	5.47E-06
T	C	0.01	0.4662136	0.1024125	7.63E-06
T	A	0.02	0.4182242	0.09236857	8.50E-06
A	G	0.02	0.4182242	0.09236857	8.50E-06

A	G	0.02	0.4182242	0.09236857	8.50E-06
C	CAAAA	0.01	0.5693416	0.1087483	3.16E-07
CAA	C	0.16	0.1495489	0.0300852	1.13E-06
TA	T	0.19	0.132844	0.02929316	8.23E-06
T	C	0.02	0.3711439	0.08081666	6.39E-06
GAC	G	0.04	0.2762138	0.06080494	7.96E-06
C	T	0.06	0.22041	0.04600996	2.61E-06
G	C	0.01	0.46962	0.1044138	9.70E-06
A	AT	0.01	0.4532819	0.09975783	7.92E-06
C	G	0.01	0.5486964	0.1022051	1.64E-07
A	G	0.02	0.3621403	0.07918014	6.94E-06
ATGTG	A	0.41	-0.1084943	0.0238299	7.61E-06
T	C	0.27	0.1133737	0.02523152	9.89E-06
C	T	0.02	0.3883244	0.08117787	2.69E-06
T	TC	0.02	0.3775208	0.08235994	6.64E-06
G	A	0.01	0.5317364	0.106282	9.69E-07
A	AG	0.01	0.4789266	0.09415258	6.50E-07
GT	G	0.07	0.198871	0.04209448	3.53E-06
G	A	0.03	0.3610962	0.07113264	6.83E-07
A	T	0.3	-0.1113711	0.02472802	9.44E-06
T	C	0.31	-0.1137349	0.02456356	5.40E-06
G	C	0.31	-0.115365	0.02453061	3.89E-06
A	AGT	0.07	0.2236454	0.04676508	2.71E-06
G	GACAC	0.03	0.3177378	0.06850856	5.21E-06
TA	T	0.02	0.4848199	0.09286611	3.40E-07
C	G	0.02	0.3453854	0.07674176	9.58E-06
C	T	0.01	0.4518761	0.1002346	9.26E-06
G	T	0.02	0.441114	0.09142879	2.23E-06
A	ATGTGTGTGTG	0.02	0.3537861	0.07782518	7.85E-06
C	T	0.01	0.5073245	0.1088831	4.74E-06
A	G	0.44	-0.0993904	0.02203322	9.15E-06
T	C	0.06	0.2140294	0.04745018	9.17E-06
T	C	0.06	0.2140294	0.04745018	9.17E-06
G	A	0.06	0.2140294	0.04745018	9.17E-06
G	A	0.06	0.2140294	0.04745018	9.17E-06
G	A	0.06	0.2140294	0.04745018	9.17E-06
C	T	0.06	0.2140294	0.04745018	9.17E-06
T	TTCCTTCCTTCCTTCCT	0.04	0.28179	0.06154356	6.79E-06
C	T	0.01	0.4984524	0.1091638	7.18E-06
A	G	0.01	0.4696783	0.1028984	7.23E-06
T	C	0.17	0.13514	0.02903297	4.84E-06
G	C	0.03	0.3176382	0.06475283	1.53E-06
T	C	0.03	0.325591	0.07021568	5.24E-06
A	T	0.01	0.4791284	0.1061067	8.97E-06
C	T	0.01	0.5227654	0.1125567	5.06E-06
T	G	0.02	0.4594386	0.09099858	7.80E-07
G	A	0.01	0.5233015	0.09966449	2.94E-07
T	C	0.02	0.3472672	0.07561788	6.39E-06
C	T	0.02	0.3472672	0.07561788	6.39E-06
G	A	0.02	0.3472672	0.07561788	6.39E-06

T	C	0.02	0.3472672	0.07561788	6.39E-06
G	A	0.05	0.2331199	0.05185369	9.78E-06
T	C	0.01	0.4710502	0.097961	2.40E-06
T	TCA	0.04	0.292398	0.0614005	2.97E-06
C	A	0.03	0.3380527	0.06922343	1.70E-06
T	C	0.03	0.3380527	0.06922343	1.70E-06
G	A	0.02	0.3745742	0.07907162	3.33E-06
GCT	G	0.01	0.4829295	0.1026478	3.86E-06
C	T	0.15	0.1414896	0.03142227	9.48E-06
T	C	0.03	0.2994927	0.06293396	3.02E-06
C	A	0.05	0.236109	0.05186108	7.62E-06
TTGTGTGTGTGTG	T	0.02	0.4580745	0.0909156	8.19E-07
A	C	0.01	0.5234808	0.1088102	2.38E-06
T	C	0.02	0.3708857	0.08197251	8.62E-06
C	T	0.02	0.395409	0.08596354	6.18E-06
G	T	0.02	0.395409	0.08596354	6.18E-06
T	A	0.02	0.3605842	0.07799582	5.57E-06
C	T	0.05	0.2298568	0.05077585	8.53E-06
G	A	0.06	0.2365196	0.04906263	2.27E-06
C	T	0.06	0.2170991	0.04753625	7.15E-06
G	C	0.03	0.3105722	0.06596769	3.80E-06
C	T	0.03	0.3340404	0.07093891	3.79E-06
G	A	0.37	0.1040776	0.02200282	3.44E-06
C	T	0.15	0.1529482	0.03191284	2.59E-06
T	TACACACACACAC	0.01	0.470113	0.100217	4.11E-06
C	T	0.44	-0.1049603	0.02255241	4.85E-06
G	A	0.44	-0.104298	0.02254684	5.50E-06
C	T	0.45	-0.110402	0.02216865	1.08E-06
C	CT	0.43	-0.1035061	0.02239748	5.62E-06
C	G	0.42	-0.1035011	0.02256914	6.57E-06
C	T	0.01	0.5303642	0.09913788	1.80E-07
G	A	0.03	0.2997392	0.06624192	8.61E-06
GTGATGGTGA	G	0.01	0.453329	0.1004083	9.00E-06
C	A	0.38	0.1040942	0.02279141	7.14E-06
T	C	0.46	0.0981821	0.02174111	8.95E-06
G	A	0.07	0.2078447	0.04602925	8.97E-06
G	A	0.02	0.3784293	0.08048783	3.91E-06
T	C	0.06	0.2302176	0.05074958	8.19E-06
G	A	0.05	0.26411	0.05434652	1.90E-06
G	A	0.03	0.3268839	0.07209539	8.27E-06
C	A	0.03	-0.325642	0.07137759	7.30E-06
C	CGTGT	0.03	-0.33767	0.07514793	9.88E-06
G	C	0.46	0.1116311	0.02449499	7.46E-06
TAC	T	0.15	-0.1785756	0.03801801	3.99E-06
C	T	0.33	0.1504478	0.02841179	2.36E-07
A	G	0.33	0.136107	0.02795418	1.82E-06
A	G	0.32	0.1540153	0.02878078	1.78E-07
CATG	C	0.32	0.1576671	0.0285244	7.35E-08
C	A	0.32	0.150557	0.0285382	2.60E-07
A	G	0.43	0.1213227	0.02586909	4.13E-06

T	C	0.33	0.1511913	0.02848486	2.22E-07
T	C	0.33	0.1650706	0.02828685	1.48E-08
C	T	0.32	0.1548091	0.02868003	1.42E-07
C	T	0.33	0.1600519	0.02790977	2.52E-08
G	C	0.36	0.1412891	0.02743474	4.79E-07
A	G	0.36	0.138413	0.02768882	9.89E-07
T	C	0.36	0.1378421	0.02750522	9.31E-07
A	G	0.36	0.134414	0.02784389	2.20E-06
C	G	0.33	0.1497795	0.02851325	2.90E-07
G	C	0.36	0.142776	0.0277293	4.82E-07
C	T	0.35	0.1396707	0.02790939	9.63E-07
G	A	0.35	0.1375954	0.02790371	1.36E-06
T	C	0.36	0.1407246	0.02776901	7.12E-07
G	T	0.36	0.1416534	0.02791563	6.90E-07
G	A	0.35	0.1355557	0.0280755	2.19E-06
CTA	C	0.32	0.1583027	0.02842881	5.97E-08
A	G	0.33	0.1597806	0.02851962	5.01E-08
C	T	0.36	0.1427223	0.02777535	5.07E-07
G	A	0.32	0.1528798	0.02881981	2.25E-07
C	T	0.03	-0.3378836	0.07466578	8.59E-06
T	C	0.03	0.347459	0.07618122	7.34E-06
A	T	0.03	0.347459	0.07618122	7.34E-06
TC	T	0.03	0.347459	0.07618122	7.34E-06
C	G	0.03	0.347459	0.07618122	7.34E-06
G	A	0.03	0.347459	0.07618122	7.34E-06
A	G	0.17	0.1637487	0.0337709	2.00E-06
A	G	0.17	0.1644476	0.03424532	2.48E-06
T	G	0.17	0.1635336	0.03396755	2.34E-06
G	A	0.17	0.1644476	0.03424532	2.48E-06
C	T	0.16	0.1615417	0.03498676	5.72E-06
C	A	0.17	0.1532348	0.03402696	9.46E-06
G	A	0.17	0.1527645	0.03392309	9.47E-06
T	C	0.12	-0.1665573	0.03516497	3.34E-06
C	T	0.46	0.1281221	0.02602216	1.41E-06
T	C	0.41	-0.1151402	0.02543132	8.51E-06
C	T	0.44	0.116094	0.02578253	9.48E-06
G	A	0.45	0.1163558	0.0258375	9.46E-06
C	CCACACACACACACA	0.04	0.3174412	0.0690678	6.28E-06
A	G	0.02	0.4121114	0.08853381	4.83E-06
C	A	0.03	0.3766444	0.0776017	1.95E-06
C	CACAA	0.03	0.3607326	0.07786523	5.34E-06
GT	G	0.15	-0.1688493	0.0348207	1.99E-06
A	C	0.48	-0.1208168	0.02593882	4.77E-06
A	G	0.48	-0.1205759	0.02593229	4.95E-06
T	G	0.48	-0.1237366	0.02592142	2.82E-06
A	C	0.48	-0.1280809	0.02584864	1.22E-06
T	G	0.48	-0.1218894	0.02599679	4.15E-06
T	TC	0.49	-0.120731	0.02569071	3.95E-06
G	C	0.48	-0.1225754	0.02552664	2.48E-06
T	C	0.49	-0.1183456	0.02547722	5.05E-06

C	G	0.48	-0.1163349	0.02572569	8.71E-06
A	AAAGTT	0.49	-0.1244994	0.02558114	1.84E-06
A	C	0.49	-0.1168638	0.02541903	6.25E-06
A	G	0.48	-0.1195287	0.02558644	4.48E-06
A	C	0.48	-0.1214125	0.02549853	2.98E-06
T	G	0.49	-0.1154794	0.0254048	7.86E-06
A	G	0.49	-0.1157826	0.02546736	7.83E-06
G	A	0.02	0.409992	0.0893525	6.50E-06
CGT	C	0.17	0.1646468	0.03662214	9.78E-06
G	A	0.24	0.1351597	0.0299395	9.01E-06
TA	T	0.02	0.4120554	0.08648445	2.94E-06
TG	T	0.21	0.136542	0.03018629	8.67E-06
C	T	0.05	0.5856871	0.1218351	2.46E-06
T	C	0.01	1.156441	0.2248676	5.08E-07
T	G	0.09	0.467533	0.09573985	1.73E-06
G	C	0.09	0.467533	0.09573985	1.73E-06
C	A	0.22	0.2936154	0.06326064	5.22E-06
G	A	0.22	0.2932884	0.06340176	5.59E-06
A	C	0.06	0.49729	0.1102151	9.24E-06
TAC	T	0.04	0.6884689	0.1462409	3.87E-06
TTG	T	0.08	0.5018896	0.1034382	2.00E-06
T	C	0.42	0.2483408	0.05429104	7.03E-06
G	A	0.29	-0.2685324	0.05941261	8.93E-06
A	G	0.02	0.8508431	0.1819625	4.47E-06
A	T	0.02	0.8946073	0.1851526	2.20E-06
G	A	0.02	0.8946073	0.1851526	2.20E-06
G	A	0.02	0.8946073	0.1851526	2.20E-06
AC	A	0.02	0.8946073	0.1851526	2.20E-06
G	A	0.02	0.8946073	0.1851526	2.20E-06
T	C	0.02	0.8946073	0.1851526	2.20E-06
C	T	0.02	0.8946073	0.1851526	2.20E-06
G	T	0.02	0.8946073	0.1851526	2.20E-06
T	G	0.02	0.8946073	0.1851526	2.20E-06
G	A	0.02	0.8946073	0.1851526	2.20E-06
T	TCCTTCCTTCCTTCCTT	0.02	0.848584	0.1880278	9.19E-06
G	A	0.03	0.8455068	0.1535136	8.39E-08
C	G	0.03	0.8029997	0.1638498	1.60E-06
A	G	0.03	0.7491436	0.1665196	9.78E-06
A	G	0.03	0.7755002	0.1556338	1.09E-06
T	A	0.03	0.7755002	0.1556338	1.09E-06
C	T	0.03	0.7755002	0.1556338	1.09E-06
AAAC	A	0.03	0.7924543	0.1535518	4.66E-07
G	A	0.03	0.7623288	0.1527295	1.05E-06
GA	G	0.01	1.325807	0.2427038	1.05E-07
T	TC	0.38	0.2521812	0.0551366	7.04E-06
T	A	0.38	-0.2569376	0.05559449	5.69E-06
G	A	0.01	1.184794	0.2559605	5.52E-06
T	G	0.01	1.184794	0.2559605	5.52E-06
A	AT	0.12	0.3772107	0.08384127	9.77E-06
AAAAAT	A	0.13	-0.3534622	0.07771952	7.89E-06

T	C	0.25	0.263977	0.05813307	8.14E-06
TCTC	T	0.34	0.2770547	0.0571563	2.05E-06
GT	G	0.45	0.2539742	0.05190443	1.66E-06
A	G	0.12	-0.3447802	0.07585843	7.99E-06
G	A	0.16	0.3385793	0.07016875	2.27E-06
C	A	0.04	0.672743	0.1425133	3.65E-06
C	CGTGTGTGTGT	0.03	0.7086468	0.1487945	3.02E-06
C	T	0.04	0.688337	0.1516463	8.20E-06
G	A	0.05	-0.5405928	0.1191137	8.23E-06
G	A	0.07	-0.4902074	0.1040769	3.83E-06
G	GT	0.39	-0.2478556	0.05424264	7.18E-06
A	G	0.4	-0.2530672	0.05418833	4.58E-06
C	T	0.01	1.171814	0.2595201	9.10E-06
A	ATATCACCTCT	0.02	1.007766	0.2129597	3.47E-06
G	A	0.02	0.9807393	0.2063664	3.16E-06
G	A	0.07	-0.4653366	0.1002809	5.24E-06
A	G	0.05	0.5594767	0.1238429	9.01E-06
C	G	0.32	0.2873844	0.05841322	1.46E-06
G	A	0.31	0.2850593	0.0583917	1.75E-06
T	C	0.31	0.2850593	0.0583917	1.75E-06
C	T	0.31	0.2900395	0.05853541	1.24E-06
T	C	0.31	0.282169	0.05862369	2.40E-06
G	A	0.31	0.2760364	0.05864437	3.88E-06
C	T	0.04	0.6598453	0.1445044	7.28E-06
A	G	0.36	-0.2642469	0.05773295	6.94E-06
A	G	0.01	1.121952	0.2479728	8.75E-06
A	T	0.01	1.344883	0.2737695	1.51E-06
A	G	0.01	1.20148	0.2484161	2.15E-06
C	T	0.01	1.228255	0.2574659	2.91E-06
C	A	0.01	1.330739	0.2476326	1.64E-07
T	C	0.04	0.7008383	0.1454039	2.32E-06
C	A	0.05	0.6294209	0.1250972	8.65E-07
G	A	0.04	0.6751394	0.1496707	9.28E-06
C	T	0.04	0.6751394	0.1496707	9.28E-06
C	T	0.01	1.246947	0.2718342	6.64E-06
G	A	0.02	1.151377	0.2081285	7.41E-08
T	G	0.03	0.7947095	0.1709672	5.06E-06
TAAAAATAA	T	0.02	0.8057882	0.1776122	8.29E-06
C	A	0.02	0.9194609	0.2020005	7.76E-06
G	A	0.09	0.4821713	0.09751002	1.30E-06
T	A	0.1	0.4175755	0.09185803	7.96E-06
A	AG	0.15	0.3638881	0.07956374	7.05E-06
C	T	0.1	0.4244821	0.09275524	6.96E-06
G	T	0.01	1.150372	0.2254295	6.15E-07
T	C	0.03	0.7772525	0.1692596	6.49E-06
T	A	0.23	0.3330873	0.06355059	3.15E-07
G	C	0.23	0.3166382	0.06339053	1.03E-06
C	G	0.23	0.3330873	0.06355059	3.15E-07
C	T	0.22	0.3251384	0.06380665	6.37E-07
C	CAT	0.36	-0.2629655	0.05798083	8.34E-06

G	C	0.22	0.2951275	0.06551701	9.54E-06
G	A	0.22	0.3179692	0.06535852	1.89E-06
G	C	0.22	0.2953218	0.06519284	8.54E-06
G	A	0.22	0.3109292	0.06580006	3.57E-06
G	C	0.22	0.3109292	0.06580006	3.57E-06
A	C	0.22	0.2951275	0.06551701	9.54E-06
G	A	0.22	0.3109292	0.06580006	3.57E-06
C	T	0.22	0.3109292	0.06580006	3.57E-06
A	T	0.22	0.324184	0.06541954	1.24E-06
CA	C	0.23	0.3073655	0.06421435	2.71E-06
T	G	0.09	0.188209	0.03967372	3.23E-06
C	T	0.02	0.38007	0.08123035	4.34E-06
C	T	0.02	0.4116346	0.08666814	3.15E-06
A	T	0.02	0.4084345	0.08183329	1.03E-06
C	T	0.01	0.477782	0.1023802	4.58E-06
T	C	0.01	0.477782	0.1023802	4.58E-06
T	C	0.01	0.477782	0.1023802	4.58E-06
C	CATCT	0.02	0.4385946	0.09428529	4.90E-06
G	GA	0.13	0.1306515	0.02900829	9.44E-06
G	A	0.01	0.5410204	0.1130726	2.68E-06
C	T	0.02	0.3772011	0.07926786	3.02E-06
C	T	0.21	0.1353547	0.02764909	1.61E-06
C	T	0.4	0.1093621	0.02361527	5.38E-06
A	C	0.05	0.337082	0.05259058	6.45E-10
T	TA	0.04	0.39322	0.05891122	1.42E-10
C	T	0.04	0.3864696	0.05613369	4.16E-11
C	T	0.03	0.3893482	0.07073261	8.26E-08
A	G	0.04	0.4042922	0.05598661	5.57E-12
C	T	0.04	0.4260639	0.05915585	6.24E-12
T	C	0.01	0.512438	0.1033883	1.21E-06
A	G	0.02	0.3779105	0.07148241	2.46E-07
G	C	0.04	0.4130132	0.05636755	2.92E-12
T	TG	0.04	0.4130132	0.05636755	2.92E-12
AAT	A	0.04	0.4260639	0.05915585	6.24E-12
A	AAAAT	0.03	0.3356507	0.06718035	1.00E-06
G	A	0.02	0.3783563	0.07177941	2.65E-07
AAATT	A	0.04	0.4149758	0.0586908	1.38E-11
C	T	0.06	0.2407346	0.0493733	1.76E-06
A	G	0.06	0.2407346	0.0493733	1.76E-06
T	C	0.01	0.5323937	0.09998135	2.03E-07
CCATCACCACCAA	C	0.01	0.544585	0.106877	6.24E-07
C	A	0.01	0.4665816	0.1030214	8.46E-06
C	A	0.01	0.4823445	0.09997992	2.23E-06
C	T	0.07	-0.2062121	0.04460341	5.57E-06
G	T	0.09	-0.1837539	0.04055554	8.38E-06
G	A	0.09	-0.1814952	0.03991188	7.80E-06
T	A	0.09	-0.1816865	0.0394855	6.14E-06
C	A	0.09	-0.1775549	0.03888302	7.17E-06
T	G	0.09	-0.1837539	0.04055554	8.38E-06
T	G	0.09	-0.1837539	0.04055554	8.38E-06

T	A	0.09	-0.1837539	0.04055554	8.38E-06
G	C	0.09	-0.184497	0.04051087	7.56E-06
T	C	0.09	-0.184497	0.04051087	7.56E-06
G	A	0.09	-0.1808999	0.03883169	4.75E-06
A	G	0.09	-0.184497	0.04051087	7.56E-06
A	C	0.09	-0.1804689	0.0394914	7.06E-06
T	C	0.09	-0.184497	0.04051087	7.56E-06
T	C	0.09	-0.1822399	0.03987135	7.03E-06
T	C	0.08	-0.1919969	0.04081499	3.87E-06
G	A	0.08	-0.1919969	0.04081499	3.87E-06
C	T	0.08	-0.1901866	0.04095683	5.08E-06
A	G	0.09	-0.1942848	0.04065456	2.75E-06
T	C	0.08	-0.1903365	0.04106114	5.27E-06
TTATG	T	0.08	-0.1918037	0.04092604	4.19E-06
C	T	0.08	-0.1897469	0.04104413	5.57E-06
T	C	0.08	-0.1924646	0.04079598	3.64E-06
A	G	0.08	-0.1924646	0.04079598	3.64E-06
T	C	0.08	-0.1924646	0.04079598	3.64E-06
A	C	0.08	-0.1924646	0.04079598	3.64E-06
T	C	0.08	-0.1897496	0.04102438	5.52E-06
T	G	0.08	-0.1901666	0.04095946	5.10E-06
G	A	0.02	0.3872111	0.08321527	4.87E-06
A	G	0.02	0.4255591	0.08843093	2.36E-06
T	C	0.4	-0.1024104	0.02263446	8.62E-06
TA	T	0.03	0.3191685	0.07091708	9.58E-06
A	G	0.02	0.3788565	0.07835748	2.13E-06
A	C	0.26	0.1231989	0.02616923	3.81E-06
TTG	T	0.38	0.1288389	0.02414748	1.93E-07
A	G	0.34	0.1090773	0.02369861	6.10E-06
A	G	0.33	0.107579	0.02383679	9.06E-06
G	A	0.04	0.3537021	0.06175788	2.62E-08
T	C	0.01	0.4789165	0.1062106	9.23E-06
G	T	0.01	0.4412647	0.09794215	9.38E-06
G	A	0.06	0.231464	0.05022115	5.94E-06
G	A	0.01	0.5015181	0.1088159	5.94E-06
G	C	0.01	0.5015181	0.1088159	5.94E-06
G	A	0.01	0.519464	0.1085784	2.69E-06
G	GAA	0.04	0.247823	0.05455061	7.95E-06
G	T	0.02	0.4087674	0.08826427	5.37E-06
G	A	0.01	0.4496429	0.0989708	7.94E-06
G	A	0.04	0.2833226	0.06066674	4.51E-06
C	T	0.04	0.2833226	0.06066674	4.51E-06
G	A	0.02	0.377874	0.08230615	6.43E-06
G	GAT	0.02	0.530283	0.09263168	2.66E-08
T	G	0.01	0.4930448	0.1086913	8.19E-06
A	G	0.27	-0.1129792	0.02490938	8.21E-06
C	A	0.02	0.4018915	0.08898556	8.94E-06
AAG	A	0.03	0.314023	0.06237879	8.36E-07
GT	G	0.01	0.4591086	0.09278527	1.26E-06
G	A	0.02	0.4103422	0.08816582	4.85E-06

G	A	0.01	0.4342336	0.09590695	8.50E-06
C	T	0.01	0.5199153	0.1115299	4.69E-06
A	AAG	0.49	-0.102293	0.02209311	5.40E-06
T	C	0.02	0.3417832	0.07558239	8.72E-06
C	T	0.22	0.1212912	0.02696542	9.68E-06
C	T	0.24	0.1147135	0.02539049	8.87E-06
C	A	0.24	0.1223236	0.02676289	7.04E-06
C	T	0.02	0.3553934	0.07630033	4.77E-06
C	T	0.17	0.1363411	0.03006281	8.23E-06
G	T	0.21	0.1257836	0.02785076	8.94E-06
T	C	0.21	0.1257836	0.02785076	8.94E-06
T	C	0.01	0.5438557	0.1156177	3.87E-06
G	GT	0.01	0.5516304	0.1122262	1.46E-06
T	G	0.01	0.5506755	0.1122284	1.52E-06
GGCAGCAGAA	G	0.01	0.5414446	0.1158191	4.42E-06
C	G	0.01	0.5438557	0.1156177	3.87E-06
A	G	0.01	0.5438557	0.1156177	3.87E-06
TTCCTTCC	T	0.02	0.4008138	0.08379153	2.70E-06
C	T	0.04	0.3270582	0.06334366	4.50E-07
T	C	0.02	0.3723316	0.07858454	3.32E-06
G	C	0.02	0.3723316	0.07858454	3.32E-06
A	G	0.02	0.3723316	0.07858454	3.32E-06
G	A	0.02	0.4359952	0.09477488	6.17E-06
T	C	0.04	0.2635207	0.05865718	9.92E-06
T	C	0.1	0.1647632	0.03628335	8.02E-06
A	G	0.04	0.2730783	0.05990178	7.41E-06
TCACACACA	T	0.02	0.4076559	0.08980635	8.08E-06
G	A	0.33	-0.1162355	0.02503355	5.09E-06
A	G	0.02	0.3812659	0.0826522	5.83E-06
G	A	0.07	0.1965078	0.04372106	9.83E-06
G	A	0.04	-0.2822702	0.05740884	1.45E-06
G	GT	0.25	-0.1201946	0.02661212	8.93E-06
CT	C	0.02	-0.3775708	0.07899724	2.75E-06
G	C	0.18	-0.1378089	0.03004475	6.55E-06
G	A	0.18	-0.1364309	0.03003875	7.99E-06
G	C	0.18	-0.1364309	0.03003875	7.99E-06
C	G	0.18	-0.1364309	0.03003875	7.99E-06
G	T	0.18	-0.142578	0.03009946	3.34E-06
C	CA	0.19	-0.1462686	0.02882428	6.90E-07
A	G	0.16	-0.151706	0.03053079	1.14E-06
G	A	0.16	-0.1484405	0.03034476	1.63E-06
G	T	0.15	-0.161008	0.03095742	3.74E-07
C	T	0.15	-0.161008	0.03095742	3.74E-07
A	G	0.17	-0.1454839	0.03001844	2.02E-06
C	T	0.21	-0.1310061	0.02810031	4.68E-06
GCA	G	0.03	-0.3324347	0.0722611	6.16E-06
A	AT	0.01	-0.5734961	0.1117879	5.28E-07
G	T	0.03	-0.3460293	0.07518914	6.12E-06
T	C	0.24	0.1250179	0.02770672	9.10E-06
C	T	0.01	-0.4776341	0.1008206	3.33E-06

T	TACACACACAC	0.01	-0.4365439	0.09491335	6.19E-06
A	T	0.05	-0.242578	0.05115002	3.25E-06
A	G	0.05	-0.2488857	0.05144387	2.10E-06
A	C	0.05	-0.2440238	0.04999894	1.72E-06
G	A	0.05	-0.2287365	0.05065299	8.96E-06
G	A	0.05	-0.2346198	0.0515292	7.60E-06
T	TA	0.02	-0.3479839	0.07736736	9.69E-06
G	C	0.02	-0.3300218	0.07204928	6.73E-06
C	T	0.04	-0.2998749	0.05799725	4.34E-07
T	TACACACACACAC	0.06	-0.2061992	0.04386185	3.92E-06
T	C	0.01	-0.5043761	0.09961717	7.28E-07
G	A	0.19	-0.1277854	0.02809378	7.76E-06
G	GA	0.2	-0.1240441	0.02746702	8.95E-06
G	C	0.21	-0.1285979	0.0260077	1.28E-06
G	A	0.01	-0.5834792	0.1109018	2.79E-07
T	C	0.01	-0.4788364	0.09936777	2.29E-06
T	G	0.01	-0.6035558	0.1052463	2.52E-08
CA	C	0.01	-0.6396275	0.1105564	1.93E-08
C	A	0.01	-0.5900317	0.1092364	1.39E-07
T	A	0.02	-0.4141983	0.08667545	2.76E-06
T	C	0.02	-0.4141983	0.08667545	2.76E-06
G	C	0.02	-0.4141983	0.08667545	2.76E-06
G	T	0.02	-0.4141983	0.08667545	2.76E-06
C	T	0.04	-0.2907244	0.06316875	6.11E-06
T	TCTCTCTCA	0.03	-0.329547	0.06891382	2.71E-06
T	A	0.02	-0.3583624	0.07891303	8.01E-06
A	G	0.02	-0.3583624	0.07891303	8.01E-06
A	T	0.02	-0.3583624	0.07891303	8.01E-06
C	T	0.02	-0.3583624	0.07891303	8.01E-06
A	G	0.25	-0.1213577	0.0249842	1.92E-06
G	A	0.26	-0.1231451	0.02490096	1.27E-06
G	A	0.23	-0.1247148	0.02734312	7.34E-06
C	T	0.03	-0.3039982	0.06504622	4.44E-06
A	AT	0.02	-0.360099	0.07883097	7.12E-06
G	A	0.02	-0.3676977	0.08142667	8.96E-06
C	T	0.04	-0.266718	0.0587344	8.02E-06
T	C	0.01	-0.515223	0.1111957	5.32E-06
G	A	0.02	-0.4257924	0.09215035	5.63E-06
G	A	0.38	0.106069	0.02360503	9.88E-06
T	C	0.37	0.1056	0.0234779	9.69E-06
G	A	0.01	-0.5481404	0.1052899	3.65E-07
G	T	0.03	-0.3188243	0.06943322	6.40E-06
CCACACA	C	0.05	-0.2606938	0.05337472	1.69E-06
G	T	0.03	-0.2950338	0.06148439	2.52E-06
T	C	0.38	-0.1084845	0.02389058	8.02E-06
C	G	0.29	-0.1202959	0.0252142	2.86E-06
A	G	0.43	0.1115737	0.02269852	1.46E-06
A	G	0.37	-0.1141937	0.02401495	3.07E-06
GCACACA	G	0.01	-0.5384638	0.1132846	3.10E-06
C	T	0.01	-0.5257732	0.1167595	9.47E-06

T	A	0.34	-0.108387	0.02372078	7.08E-06
T	C	0.33	-0.1092787	0.02375457	6.17E-06
C	A	0.22	-0.124284	0.02754437	9.10E-06
C	T	0.22	-0.1242868	0.02731846	7.72E-06
C	A	0.02	-0.4359745	0.09325297	4.41E-06
T	G	0.02	-0.4359745	0.09325297	4.41E-06
C	A	0.01	-0.5573303	0.1075527	4.11E-07
G	A	0.02	-0.4124026	0.08757139	3.78E-06
G	C	0.01	-0.4862816	0.1045731	4.94E-06
C	G	0.01	-0.5560514	0.1042989	1.97E-07
G	C	0.01	-0.4894397	0.1002673	1.72E-06
T	C	0.01	-0.5106761	0.10938	4.54E-06
T	G	0.02	-0.3665776	0.07564258	2.02E-06
TCTTTCTTTCTTTCTTT	T	0.01	-0.5413492	0.1162791	4.82E-06
A	G	0.04	-0.2666529	0.05831114	6.96E-06
T	C	0.01	-0.4590413	0.09455459	1.94E-06
A	ATGTG	0.04	-0.2609209	0.05784751	9.17E-06
A	C	0.05	-0.2513928	0.05515198	7.43E-06
T	C	0.01	-0.4360306	0.09616812	8.27E-06
G	C	0.23	-0.1322774	0.02759049	2.57E-06
G	A	0.33	-0.1186975	0.02357473	8.33E-07
G	T	0.22	-0.1260317	0.02769299	7.67E-06
C	G	0.23	-0.1322774	0.02759049	2.57E-06
C	G	0.23	-0.1322774	0.02759049	2.57E-06
T	G	0.01	-0.4703669	0.1034982	7.89E-06
G	A	0.03	-0.3265563	0.06912677	3.54E-06
T	C	0.05	-0.2369499	0.05256147	9.27E-06
T	C	0.05	-0.2373411	0.05267732	9.37E-06
T	C	0.02	-0.3341257	0.07433502	9.82E-06
C	T	0.04	-0.2560878	0.05628422	7.71E-06
G	A	0.04	-0.2701271	0.05653557	2.77E-06
C	G	0.03	-0.3038279	0.06451559	3.78E-06
T	C	0.03	-0.3252814	0.07029419	5.46E-06
C	CAA	0.5	0.1140341	0.02296755	1.16E-06
A	ATGTAAG	0.03	-0.3493331	0.07105593	1.46E-06
C	T	0.06	-0.2327889	0.04758891	1.64E-06
C	T	0.06	-0.2079207	0.04576883	7.95E-06
G	A	0.06	-0.2079207	0.04576883	7.95E-06
C	CT	0.07	-0.2056841	0.04520701	7.71E-06
G	A	0.06	-0.2079207	0.04576883	7.95E-06
T	C	0.06	-0.2079207	0.04576883	7.95E-06
A	G	0.06	-0.2079207	0.04576883	7.95E-06
G	A	0.06	-0.214626	0.04592583	4.45E-06
G	A	0.06	-0.2079207	0.04576883	7.95E-06
T	G	0.06	-0.2229566	0.04576881	1.80E-06
A	C	0.06	-0.2176233	0.04565516	2.91E-06
A	G	0.07	-0.2125146	0.0436749	1.84E-06
C	T	0.06	-0.2079207	0.04576883	7.95E-06
C	G	0.07	-0.2046821	0.04450003	6.19E-06
G	A	0.09	-0.1993154	0.03985563	9.79E-07

C	T	0.09	-0.1993154	0.03985563	9.79E-07
C	T	0.06	-0.2079207	0.04576883	7.95E-06
G	A	0.09	-0.2055261	0.03844558	1.83E-07
T	C	0.08	-0.189302	0.041378	6.90E-06
T	C	0.06	-0.2079207	0.04576883	7.95E-06
T	C	0.08	-0.1925432	0.04117243	4.38E-06
T	TTGTGTGTGTGTG	0.01	-0.4579757	0.09889559	5.38E-06
C	T	0.01	-0.5077883	0.1050944	2.16E-06
A	G	0.01	-0.5829132	0.1141783	5.95E-07
G	C	0.01	-0.5917676	0.1128763	3.05E-07
T	G	0.06	-0.226838	0.04593278	1.31E-06
G	T	0.02	-0.3677376	0.07858485	4.33E-06
C	CA	0.02	-0.3210228	0.06648645	2.19E-06
C	T	0.02	-0.4191587	0.08633122	1.94E-06
C	G	0.04	-0.2825115	0.06138258	6.11E-06
C	G	0.04	-0.2825115	0.06138258	6.11E-06
C	T	0.04	-0.2825115	0.06138258	6.11E-06
G	A	0.04	-0.2825115	0.06138258	6.11E-06
G	C	0.04	-0.2825115	0.06138258	6.11E-06
A	T	0.04	-0.2728824	0.06068779	9.75E-06
A	G	0.41	-0.1061261	0.02309415	6.30E-06
A	G	0.39	-0.1272314	0.02226639	2.81E-08
G	A	0.41	-0.1084783	0.02270744	2.78E-06
C	T	0.3	-0.1154977	0.0238704	2.09E-06
C	T	0.39	0.09896759	0.021942	9.17E-06
A	C	0.39	0.09855541	0.02187299	9.36E-06
C	T	0.39	0.09959273	0.02194503	8.12E-06
C	G	0.4	0.09972471	0.0219198	7.72E-06
G	T	0.4	0.09941076	0.02191355	8.18E-06
A	G	0.38	0.1009065	0.0220316	6.75E-06
A	G	0.4	0.1013793	0.02202138	6.08E-06
T	C	0.4	0.1002834	0.02203212	7.65E-06
T	A	0.4	0.1037401	0.0219814	3.61E-06
A	G	0.4	0.1022356	0.02199023	4.96E-06
C	T	0.38	0.0989682	0.02189264	8.77E-06
G	T	0.4	0.1000237	0.02207817	8.40E-06
T	C	0.4	0.1014185	0.02205481	6.22E-06
A	T	0.4	0.100138	0.02202174	7.80E-06
GGGCGTGAGCCACTC	A	0.04	-0.2833473	0.06168343	6.36E-06
ATACTCCAACCTTG	A	0.04	-0.2634014	0.05710859	5.85E-06
C	T	0.04	-0.2777566	0.05669802	1.58E-06
G	A	0.04	-0.2720138	0.05650238	2.34E-06
A	G	0.02	-0.3600409	0.07797888	5.72E-06
T	C	0.46	0.1086148	0.02314955	4.09E-06
G	C	0.01	-0.5241975	0.1140415	6.27E-06
T	TCACACA	0.04	-0.2799801	0.05799719	2.20E-06
C	T	0.02	-0.4050179	0.08467842	2.70E-06
C	A	0.02	-0.3786096	0.08310858	7.52E-06
G	A	0.02	-0.3786096	0.08310858	7.52E-06
G	A	0.2	-0.1268795	0.02784217	7.47E-06

AAC	A	0.02	-0.4059653	0.07838734	4.17E-07
G	A	0.43	0.1021138	0.02267054	9.42E-06
C	G	0.01	-0.4550402	0.101223	9.80E-06
T	TA	0.1	-0.1655483	0.03533018	4.21E-06
G	GT	0.01	-0.5046132	0.1085823	5.00E-06
A	G	0.01	-0.5046132	0.1085823	5.00E-06
C	T	0.02	-0.3892896	0.07942269	1.56E-06
A	G	0.02	-0.3565409	0.07637719	4.55E-06
G	A	0.2	-0.1417508	0.03146269	9.38E-06
G	T	0.2	-0.1438888	0.03143493	6.83E-06
G	C	0.02	0.421419	0.09219716	7.03E-06
G	A	0.02	0.421419	0.09219716	7.03E-06
A	G	0.04	-0.2881751	0.06399921	9.48E-06
G	GTGAA	0.17	-0.1547862	0.03364216	6.15E-06
C	A	0.03	-0.3413674	0.07472077	7.10E-06
A	G	0.03	-0.3256786	0.07116941	6.87E-06
T	C	0.15	-0.1607944	0.03482298	5.71E-06
G	A	0.3	0.1243641	0.02662661	4.50E-06
G	A	0.3	0.1212047	0.02664926	7.77E-06
C	T	0.22	0.1525385	0.02961769	4.79E-07
A	C	0.22	0.1528115	0.02989137	5.75E-07
CA	C	0.31	0.1222066	0.02643171	5.56E-06
T	C	0.34	0.1181444	0.02572584	6.39E-06
A	C	0.34	0.1246162	0.02555288	1.75E-06
C	A	0.19	0.1414668	0.03134099	9.04E-06
C	T	0.31	-0.1274776	0.02703187	3.67E-06
C	T	0.31	-0.1276979	0.02694695	3.31E-06
A	G	0.32	-0.1231663	0.02608133	3.56E-06
T	C	0.3	-0.1399171	0.02714236	4.68E-07
T	C	0.3	-0.1367012	0.02709982	7.96E-07
C	T	0.32	-0.1282455	0.0255617	9.07E-07
T	G	0.3	-0.1334651	0.02705645	1.35E-06
C	T	0.3	-0.1299768	0.02700881	2.36E-06
A	G	0.32	-0.1347483	0.02624165	5.16E-07
A	AG	0.31	-0.1317509	0.02694354	1.65E-06
C	T	0.3	-0.1366453	0.02709866	8.03E-07
C	T	0.3	-0.131487	0.0269946	1.80E-06
A	T	0.3	-0.130426	0.02701617	2.20E-06
T	C	0.3	-0.1353849	0.02711703	1.02E-06
G	A	0.33	-0.1280057	0.02625382	1.76E-06
T	A	0.3	-0.1313747	0.02699271	1.83E-06
G	A	0.3	-0.1362049	0.02696852	7.73E-07
G	C	0.3	-0.1299277	0.02701088	2.39E-06
T	G	0.3	-0.1344569	0.02703397	1.11E-06
C	T	0.3	-0.1365562	0.02709725	8.15E-07
A	G	0.31	-0.1344383	0.02690939	1.00E-06
C	T	0.3	-0.1377391	0.02707786	6.50E-07
G	A	0.3	-0.1334803	0.02705616	1.35E-06
G	T	0.31	-0.1278718	0.02694715	3.21E-06
GT	G	0.3	-0.1327828	0.02715858	1.65E-06

G	T	0.29	-0.149646	0.02711637	7.69E-08
T	C	0.3	-0.1466767	0.02716766	1.41E-07
T	G	0.29	-0.1528175	0.02737351	5.54E-08
T	A	0.3	-0.1478539	0.02714752	1.11E-07
T	G	0.3	-0.1429226	0.02711805	2.66E-07
T	A	0.31	-0.141912	0.02685615	2.49E-07
G	A	0.31	-0.1368714	0.02698478	6.97E-07
T	A	0.3	-0.1465183	0.02710177	1.36E-07
A	G	0.4	-0.1391654	0.02569978	1.30E-07
A	G	0.3	-0.1427964	0.02705293	2.56E-07
C	T	0.35	-0.1223749	0.02547326	2.45E-06
A	G	0.34	-0.1204484	0.02559852	3.85E-06
A	G	0.3	-0.1451063	0.02711818	1.79E-07
A	G	0.3	-0.1451063	0.02711818	1.79E-07
C	T	0.35	-0.1182165	0.02531924	4.53E-06
G	C	0.36	-0.11862	0.02473351	2.55E-06
T	A	0.32	-0.126062	0.02644128	2.90E-06
T	C	0.35	-0.1174142	0.02537984	5.49E-06
A	G	0.35	-0.1220848	0.02533061	2.28E-06
G	A	0.38	-0.1198518	0.02560683	4.31E-06
G	T	0.03	-0.3566597	0.0772159	5.67E-06
T	A	0.05	-0.2786222	0.05999736	5.08E-06
A	G	0.05	-0.2786222	0.05999736	5.08E-06
C	T	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2730312	0.06041217	8.82E-06
T	C	0.05	-0.2786222	0.05999736	5.08E-06
G	T	0.05	-0.2786222	0.05999736	5.08E-06
G	T	0.05	-0.2786222	0.05999736	5.08E-06
T	G	0.05	-0.2786222	0.05999736	5.08E-06
T	A	0.05	-0.2786222	0.05999736	5.08E-06
A	T	0.05	-0.2786222	0.05999736	5.08E-06
C	T	0.05	-0.2786222	0.05999736	5.08E-06
A	T	0.05	-0.2786222	0.05999736	5.08E-06
T	C	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2786222	0.05999736	5.08E-06
A	T	0.05	-0.2786222	0.05999736	5.08E-06
G	A	0.05	-0.2786222	0.05999736	5.08E-06
A	T	0.05	-0.2786222	0.05999736	5.08E-06
A	T	0.05	-0.2786222	0.05999736	5.08E-06
T	A	0.05	-0.2786222	0.05999736	5.08E-06
A	G	0.05	-0.2786222	0.05999736	5.08E-06
C	A	0.05	-0.2786222	0.05999736	5.08E-06
G	T	0.05	-0.2786222	0.05999736	5.08E-06
C	T	0.06	-0.2626808	0.05407128	1.91E-06
G	A	0.06	-0.2626808	0.05407128	1.91E-06
A	G	0.05	-0.2692207	0.0579297	5.00E-06
T	C	0.05	-0.269762	0.05971743	8.90E-06

C	T	0.05	-0.269762	0.05971743	8.90E-06
A	G	0.05	-0.269762	0.05971743	8.90E-06
AATTAT	A	0.05	-0.269762	0.05971743	8.90E-06
T	A	0.05	-0.269762	0.05971743	8.90E-06
A	C	0.05	-0.269762	0.05971743	8.90E-06
GA	G	0.05	-0.269762	0.05971743	8.90E-06
T	G	0.06	-0.2366204	0.0516567	6.73E-06
C	CATCT	0.02	-0.4117704	0.09079536	8.23E-06
G	T	0.06	-0.2649019	0.0557593	3.13E-06
G	A	0.06	0.2612077	0.05621674	5.02E-06
T	G	0.16	-0.1810543	0.03506756	4.50E-07
T	G	0.15	-0.1754727	0.03546895	1.26E-06
A	G	0.17	-0.1626645	0.0344726	3.62E-06
TCTGAGGAGCAG	T	0.02	-0.4630717	0.1029088	9.61E-06
A	G	0.12	-0.1782403	0.03956189	9.38E-06
C	T	0.01	-0.5002933	0.1099697	7.73E-06
G	T	0.02	-0.4776717	0.09696308	1.39E-06
T	TAAGCCA	0.45	0.1172774	0.02529712	5.26E-06
A	G	0.08	-0.2232101	0.04626511	2.23E-06
A	G	0.03	-0.3594996	0.07818105	6.22E-06
T	C	0.03	0.6514107	0.1447372	9.58E-06
C	A	0.03	0.7248151	0.1543638	4.03E-06
A	G	0.05	-0.5268058	0.1137017	5.33E-06
T	C	0.05	-0.5268058	0.1137017	5.33E-06
T	C	0.05	-0.5460456	0.1146208	2.95E-06
C	G	0.05	-0.5310361	0.1142235	4.96E-06
T	C	0.05	-0.5411591	0.1153219	4.08E-06
T	C	0.05	-0.5314754	0.1129258	3.83E-06
T	C	0.05	-0.5268058	0.1137017	5.33E-06
T	C	0.05	-0.5268058	0.1137017	5.33E-06
T	G	0.05	-0.5217385	0.1143788	7.33E-06
G	C	0.05	-0.5411591	0.1153219	4.08E-06
G	A	0.05	-0.5268058	0.1137017	5.33E-06
T	C	0.05	-0.5460456	0.1146208	2.95E-06
C	A	0.05	-0.5295968	0.1150215	6.06E-06
G	A	0.05	-0.5217385	0.1143788	7.33E-06
A	C	0.05	-0.5460456	0.1146208	2.95E-06
T	C	0.05	-0.5460456	0.1146208	2.95E-06
A	G	0.05	-0.5460456	0.1146208	2.95E-06
G	C	0.05	-0.5268058	0.1137017	5.33E-06
AAC	A	0.05	-0.5460456	0.1146208	2.95E-06
C	T	0.05	-0.5460456	0.1146208	2.95E-06
A	G	0.05	-0.5422633	0.1157055	4.19E-06
T	C	0.06	-0.5345851	0.1125103	3.13E-06
A	AT	0.05	-0.5268058	0.1137017	5.33E-06
C	T	0.05	-0.5268058	0.1137017	5.33E-06
G	A	0.05	-0.5268058	0.1137017	5.33E-06
G	A	0.05	-0.5268058	0.1137017	5.33E-06
AT	A	0.05	-0.5217385	0.1143788	7.33E-06
A	G	0.05	-0.5268058	0.1137017	5.33E-06

A	T	0.05	-0.5268058	0.1137017	5.33E-06
T	C	0.05	-0.5268058	0.1137017	5.33E-06
C	T	0.05	-0.5268058	0.1137017	5.33E-06
T	TA	0.05	-0.521654	0.1143651	7.34E-06
T	C	0.05	-0.5268058	0.1137017	5.33E-06
ATATGTG	A	0.05	-0.5877939	0.1257506	4.43E-06
C	A	0.05	-0.5268058	0.1137017	5.33E-06
CTTTTGGATGAAGGCT	T	0.02	-0.9730148	0.2150709	8.64E-06
C	G	0.22	0.2881566	0.06267042	6.24E-06
C	A	0.28	0.2648316	0.05876267	9.33E-06
AC	A	0.02	0.9927904	0.2043339	1.91E-06
C	T	0.02	-0.9680047	0.213626	8.38E-06
A	ATGTGTGTG	0.02	-1.075293	0.2014852	1.92E-07
C	CACAA	0.18	0.3138622	0.06757524	5.07E-06
C	T	0.21	0.3026391	0.06300767	2.47E-06
T	C	0.21	0.2952767	0.06361712	5.14E-06
GA	G	0.11	-0.3972347	0.0818269	1.95E-06
A	G	0.08	-0.4288853	0.09356192	6.64E-06
C	T	0.09	-0.4812339	0.09102925	2.46E-07
A	C	0.09	-0.4619462	0.09014505	5.43E-07
G	T	0.09	-0.4871593	0.09311612	3.23E-07
T	C	0.11	-0.3704559	0.08098558	6.93E-06
AACACACAC	A	0.01	-1.189157	0.2570539	5.50E-06
A	G	0.22	-0.2917344	0.06482515	9.60E-06
G	A	0.18	0.3202358	0.06950381	5.98E-06
C	T	0.02	0.9913282	0.2105482	3.80E-06
A	ACCTTCCTTCCTT	0.08	-0.4443376	0.09646051	6.01E-06
A	G	0.01	-1.10001	0.2382321	5.72E-06
A	T	0.04	-0.7069877	0.1463549	2.17E-06
T	A	0.19	0.3079959	0.06710127	6.46E-06
G	T	0.19	0.3079959	0.06710127	6.46E-06
A	G	0.04	-0.6451578	0.1426125	8.66E-06
A	C	0.03	-0.7011073	0.1538637	7.49E-06
A	G	0.01	-1.113757	0.2478888	9.91E-06
T	C	0.15	0.4200964	0.07659243	9.15E-08
C	CGTGTGT	0.17	0.3640509	0.0737983	1.35E-06
A	G	0.14	0.4312386	0.07906449	1.07E-07
A	G	0.13	0.4182454	0.08042955	3.76E-07
C	T	0.01	-1.054061	0.2333459	8.91E-06
ATC	A	0.06	0.5222433	0.1135971	6.26E-06
TAC	T	0.03	0.6617937	0.1461188	8.46E-06
T	C	0.05	-0.5525809	0.1217106	8.06E-06
C	T	0.05	-0.5525809	0.1217106	8.06E-06
C	CA	0.05	-0.6087475	0.1246883	1.71E-06
A	T	0.05	-0.5525809	0.1217106	8.06E-06
A	G	0.04	-0.583069	0.1240989	3.98E-06
C	T	0.05	-0.5525809	0.1217106	8.06E-06
T	C	0.05	-0.5525809	0.1217106	8.06E-06
C	G	0.04	-0.6158972	0.1292157	2.92E-06
T	C	0.05	-0.5578003	0.1233106	8.67E-06

T	C	0.05	-0.5578003	0.1233106	8.67E-06
G	A	0.05	-0.5662936	0.1156502	1.60E-06
G	A	0.05	-0.5637465	0.1149858	1.56E-06
G	A	0.17	-0.3422066	0.06949763	1.41E-06
G	A	0.16	-0.3467006	0.07087108	1.64E-06
AT	A	0.07	-0.4707076	0.1046735	9.74E-06
T	G	0.06	-0.4923839	0.1061432	5.20E-06
T	C	0.06	-0.5051684	0.1120884	9.33E-06
T	G	0.06	-0.5051684	0.1120884	9.33E-06
G	A	0.06	-0.5126153	0.1126519	7.70E-06
G	A	0.06	-0.5051684	0.1120884	9.33E-06
T	G	0.06	-0.5051684	0.1120884	9.33E-06
A	AG	0.06	-0.5051684	0.1120884	9.33E-06
A	G	0.06	-0.5051684	0.1120884	9.33E-06
G	GT	0.06	-0.5051684	0.1120884	9.33E-06
A	AT	0.06	-0.5051684	0.1120884	9.33E-06
A	T	0.06	-0.5051684	0.1120884	9.33E-06
A	T	0.06	-0.5051684	0.1120884	9.33E-06
C	A	0.06	-0.5051684	0.1120884	9.33E-06
A	G	0.08	-0.4290586	0.09483836	8.65E-06
A	G	0.01	1.053593	0.2331923	8.88E-06
C	T	0.01	1.053593	0.2331923	8.88E-06
G	A	0.01	-1.155184	0.2278963	7.09E-07
G	GTT	0.11	-0.3404264	0.07494922	7.99E-06
A	G	0.05	0.6206923	0.1256494	1.31E-06
A	T	0.02	0.9739665	0.200314	1.88E-06
A	G	0.02	0.8915731	0.1967879	8.40E-06
C	T	0.37	0.2495416	0.05530691	9.12E-06
T	C	0.05	0.5608699	0.1160623	2.16E-06
CA	C	0.05	0.6072921	0.1204133	8.01E-07
G	C	0.05	0.5239754	0.1159286	8.81E-06
G	A	0.05	-0.5750908	0.1237858	5.04E-06
C	T	0.07	-0.4828224	0.1035349	4.66E-06
T	C	0.38	0.2500244	0.05497939	7.80E-06
A	G	0.38	0.2500244	0.05497939	7.80E-06
C	T	0.4	0.2481949	0.05457299	7.79E-06
G	A	0.4	0.2456477	0.05455957	9.51E-06
C	G	0.38	0.2500244	0.05497939	7.80E-06
C	T	0.38	0.2500395	0.05503118	7.94E-06
C	T	0.38	0.2500244	0.05497939	7.80E-06
TTA	T	0.39	0.2506722	0.05502881	7.54E-06
G	A	0.01	-1.185346	0.2468478	2.48E-06
A	G	0.01	-1.244869	0.2638251	3.63E-06
A	G	0.03	-0.7309753	0.1591306	6.36E-06
G	GT	0.01	-1.332484	0.2643625	8.13E-07
G	A	0.01	-1.332484	0.2643625	8.13E-07
T	C	0.01	-1.332484	0.2643625	8.13E-07
T	G	0.01	-1.051169	0.2300398	7.08E-06
A	G	0.01	-1.114543	0.236062	3.58E-06
A	G	0.21	0.2938077	0.06404755	6.54E-06

C	T	0.2	0.299584	0.06652279	9.47E-06
C	G	0.19	0.3075908	0.06827041	9.38E-06
C	T	0.19	0.3301039	0.06810368	2.01E-06
A	C	0.19	0.3375595	0.06810901	1.21E-06
C	G	0.19	0.3138265	0.06814715	6.04E-06
C	T	0.01	1.035401	0.2281207	8.10E-06
T	C	0.12	0.3929993	0.08216255	2.70E-06
C	T	0.03	-0.7477053	0.1613752	5.33E-06
C	A	0.02	-0.7908119	0.1592057	1.15E-06
G	A	0.01	-1.141198	0.2462108	5.29E-06
T	C	0.01	1.283489	0.2850146	9.76E-06
G	A	0.05	0.4916553	0.106912	6.42E-06
T	C	0.06	0.5057328	0.1118636	9.04E-06
A	G	0.33	-0.2721385	0.05972059	7.72E-06
T	CTTTCTTTCTTTCTTTC	0.05	0.59686	0.1295888	6.23E-06
T	G	0.03	0.7420829	0.1600077	5.40E-06
A	G	0.35	-0.2652143	0.05866471	9.04E-06
A	T	0.43	-0.2541268	0.05448623	4.81E-06
A	G	0.46	-0.2414176	0.05351056	9.41E-06
C	T	0.46	-0.2474435	0.05363426	6.02E-06
G	C	0.46	-0.2502271	0.05350007	4.53E-06
A	G	0.46	-0.2457917	0.05354226	6.66E-06
C	T	0.46	-0.2457917	0.05354226	6.66E-06
T	C	0.46	-0.2443478	0.0535667	7.57E-06
C	T	0.45	-0.2488909	0.05334794	4.78E-06
A	G	0.46	-0.2465289	0.0535474	6.28E-06
G	A	0.46	-0.2443478	0.0535667	7.57E-06
T	C	0.46	-0.2471184	0.05343153	5.72E-06
G	C	0.45	-0.246104	0.05356922	6.55E-06
A	G	0.45	-0.2467751	0.05346387	5.96E-06
C	T	0.5	0.239017	0.0531352	9.97E-06
A	G	0.46	-0.2421132	0.05350884	8.89E-06
A	G	0.46	-0.2421132	0.05350884	8.89E-06
A	AAAGTT	0.49	0.2398812	0.05313807	9.30E-06
C	A	0.45	0.2551735	0.05621613	8.35E-06
GAGAGCCCTGGAA	G	0.22	-0.3549196	0.06818723	3.88E-07
T	C	0.22	-0.3276877	0.06804652	2.42E-06
T	C	0.22	-0.3208115	0.06808853	3.88E-06
A	C	0.22	-0.3312625	0.06847302	2.19E-06
T	A	0.22	-0.3312625	0.06847302	2.19E-06
A	C	0.22	-0.3175308	0.06816618	4.93E-06
G	A	0.28	-0.2815217	0.06038365	4.84E-06
A	G	0.27	-0.3085809	0.0602511	5.79E-07
C	G	0.27	-0.3085809	0.0602511	5.79E-07
A	G	0.21	-0.3044347	0.06727378	8.87E-06
A	G	0.02	0.8938585	0.1985218	9.79E-06
G	T	0.1	0.4292857	0.09443469	8.11E-06
A	C	0.17	0.3503382	0.0768628	7.69E-06
C	T	0.08	0.488225	0.1044624	4.60E-06
G	A	0.08	0.488225	0.1044624	4.60E-06

T	C	0.08	0.488225	0.1044624	4.60E-06
C	A	0.08	0.488225	0.1044624	4.60E-06
T	C	0.08	0.488225	0.1044624	4.60E-06
C	T	0.08	0.46711	0.1022191	7.30E-06
T	C	0.08	0.4809279	0.1008779	3.02E-06
G	A	0.08	0.488225	0.1044624	4.60E-06
C	T	0.08	0.488225	0.1044624	4.60E-06
C	T	0.08	0.488225	0.1044624	4.60E-06
A	C	0.08	0.488225	0.1044624	4.60E-06
A	C	0.08	0.488225	0.1044624	4.60E-06
A	T	0.08	0.488225	0.1044624	4.60E-06
T	C	0.08	0.488225	0.1044624	4.60E-06
G	A	0.08	0.4770318	0.1040486	6.83E-06
T	C	0.08	0.5119867	0.09999055	5.83E-07
C	G	0.08	0.4768416	0.1019331	4.52E-06
C	T	0.08	0.4770318	0.1040486	6.83E-06
A	C	0.08	0.4736409	0.1019189	5.18E-06
T	C	0.08	0.4810894	0.1036051	5.27E-06
T	C	0.07	0.4836215	0.1050192	6.25E-06
C	T	0.39	-0.2839126	0.05722803	1.24E-06
C	CA	0.44	-0.2545899	0.05392345	3.72E-06
G	A	0.2	-0.3233318	0.06843075	3.66E-06
TG	T	0.02	-0.9592574	0.2106488	7.83E-06
C	T	0.02	0.9908249	0.2108321	4.10E-06
C	CTGTG	0.1	0.4436143	0.09742783	7.85E-06
T	A	0.02	1.037765	0.2197643	3.70E-06
G	C	0.02	0.8359625	0.1805348	5.58E-06
T	C	0.05	0.6409223	0.1375536	4.91E-06
T	A	0.02	0.9272016	0.1874061	1.32E-06
G	T	0.15	-0.3632724	0.07909632	6.59E-06
G	C	0.04	0.6350524	0.1387678	7.09E-06
G	A	0.03	0.7476733	0.1605879	4.98E-06
A	G	0.13	0.3714799	0.08069867	6.29E-06
T	C	0.16	0.3439973	0.07534888	7.44E-06
T	C	0.16	0.3433014	0.07584234	8.82E-06
A	G	0.16	0.3542644	0.07547162	4.20E-06
G	A	0.13	0.3754618	0.08032665	4.59E-06
T	C	0.15	0.3449487	0.07457808	5.71E-06
G	A	0.14	0.3846987	0.08133242	3.58E-06
G	A	0.02	1.06495	0.2272826	4.36E-06
A	ACT	0.07	0.5285775	0.117255	9.56E-06
T	C	0.31	0.2733773	0.05760868	3.33E-06
G	A	0.16	-0.3566938	0.07629955	4.58E-06
TA	T	0.2	0.3122159	0.06908839	9.11E-06
CTGTGTGTGTGTG	C	0.05	0.6573953	0.1304922	8.63E-07
G	GATC	0.41	0.2568083	0.05707401	9.92E-06
A	G	0.41	0.2579089	0.05680212	8.30E-06
C	T	0.02	1.066442	0.2348449	8.28E-06
C	T	0.01	1.125023	0.242183	5.22E-06
C	T	0.21	-0.1210576	0.02691481	9.69E-06

T	C	0.37	-0.1116326	0.02323644	2.45E-06
AT	A	0.19	-0.1224723	0.02658799	6.01E-06
G	A	0.02	-0.3792197	0.08189714	5.39E-06
G	GA	0.03	-0.3664052	0.07162997	5.67E-07
C	T	0.02	-0.3792197	0.08189714	5.39E-06
G	GA	0.03	-0.3285344	0.07187553	7.03E-06
AATATGATATAATATC	A	0.01	-0.4957364	0.1011524	1.57E-06
CT	C	0.02	-0.4320639	0.08597878	8.72E-07
C	A	0.02	-0.4054318	0.08859017	6.86E-06
C	T	0.48	0.101174	0.02240969	9.00E-06
A	G	0.45	-0.1034469	0.02230459	5.21E-06
G	A	0.01	-0.5088588	0.1109604	6.57E-06
T	C	0.28	0.115524	0.02568293	9.68E-06
G	GAAGA	0.01	-0.5098151	0.1085189	3.98E-06
G	C	0.02	-0.3476314	0.07366233	3.61E-06
C	T	0.01	-0.5189729	0.1080122	2.45E-06
C	T	0.01	-0.4761425	0.09437742	7.94E-07
C	CT	0.05	-0.2452228	0.05221556	4.01E-06
T	A	0.03	-0.2887757	0.06412574	9.46E-06
ATAGATAGATACATA	G	0.03	-0.3151967	0.06664226	3.45E-06
C	T	0.06	-0.2076549	0.0456922	7.89E-06
C	T	0.04	-0.2621242	0.05815413	9.30E-06
T	C	0.04	-0.2686935	0.05789811	5.15E-06
C	T	0.04	-0.2547628	0.05603642	7.83E-06
TA	T	0.02	-0.358756	0.07566366	3.27E-06
A	AG	0.36	0.1026288	0.02280811	9.62E-06
G	A	0.13	-0.1524691	0.03227048	3.53E-06
G	C	0.14	-0.1448297	0.03156727	6.52E-06
T	C	0.08	-0.1905776	0.04091351	4.76E-06
GATAC	G	0.01	-0.457039	0.09872017	5.41E-06
AT	A	0.02	-0.3409554	0.06482339	2.81E-07
A	G	0.01	-0.5080404	0.1113928	7.35E-06
A	T	0.05	-0.2569976	0.05134103	9.57E-07
A	AAAAT	0.07	-0.2070893	0.045595	7.99E-06
C	T	0.05	-0.2577499	0.05135508	8.99E-07
G	A	0.05	-0.2384561	0.05058323	3.70E-06
A	G	0.05	-0.2444874	0.05084287	2.40E-06
T	A	0.05	-0.2386239	0.05058855	3.65E-06
GA	G	0.05	-0.2441713	0.05379431	8.09E-06
G	A	0.05	-0.2577499	0.05135508	8.99E-07
A	G	0.06	-0.2336668	0.04933279	3.34E-06
G	A	0.02	-0.3659937	0.07501556	1.74E-06
TAGAGAGAGAG	T	0.01	-0.5209639	0.1072796	1.93E-06
AACACAC	A	0.13	-0.1674238	0.03590733	4.67E-06
C	T	0.01	-0.5086468	0.1111254	6.83E-06
G	C	0.47	-0.1007279	0.02232865	9.14E-06
A	G	0.4	-0.1099515	0.02217664	1.20E-06
T	A	0.4	-0.1115524	0.02209632	7.81E-07
C	A	0.47	0.1025171	0.02272304	9.13E-06
A	T	0.29	0.1133006	0.02379347	2.98E-06

G	A	0.19	0.1267614	0.02714785	4.53E-06
T	C	0.2	0.1330092	0.02729935	1.79E-06
C	T	0.17	0.1527204	0.02875613	2.18E-07
G	T	0.17	0.1502134	0.02882096	3.55E-07
C	T	0.17	0.1532772	0.02902349	2.53E-07
T	C	0.14	0.141484	0.03083382	6.50E-06
T	C	0.14	0.1418157	0.03100177	6.92E-06
G	A	0.14	0.140034	0.03109918	9.48E-06
G	GA	0.14	0.1430898	0.03154205	8.18E-06
T	A	0.14	0.1415733	0.03135601	8.99E-06
C	T	0.14	0.1415733	0.03135601	8.99E-06
T	C	0.14	0.1422251	0.0315776	9.44E-06
A	G	0.2	0.1331083	0.02843622	4.30E-06
G	GA	0.02	-0.314385	0.06937138	8.35E-06
AT	A	0.03	-0.3228891	0.07064211	7.03E-06
ATGATGGTGGTGCCA/	A	0.04	-0.2580246	0.05607901	6.15E-06
C	CA	0.01	-0.4264288	0.09406645	8.30E-06
C	CA	0.01	-0.5217751	0.1037365	8.54E-07
C	CTT	0.03	-0.3229039	0.07180021	9.72E-06
T	C	0.03	-0.3171099	0.069039	6.37E-06
C	G	0.03	-0.2957595	0.06477278	7.18E-06
T	A	0.04	-0.2566608	0.05697217	9.39E-06
CAT	C	0.03	-0.2868111	0.0630178	7.66E-06
GCCCT	G	0.37	-0.1142644	0.02330578	1.55E-06
G	A	0.02	-0.4042955	0.08682792	4.80E-06
A	G	0.34	0.1133098	0.02441092	5.13E-06
G	A	0.01	-0.4472386	0.09922752	9.30E-06
A	G	0.23	0.1243781	0.02750698	8.73E-06
T	C	0.28	0.1089564	0.02419722	9.48E-06
A	G	0.28	0.1097922	0.0241308	7.71E-06
T	C	0.28	0.1097922	0.0241308	7.71E-06
T	C	0.28	0.1097922	0.0241308	7.71E-06
A	C	0.27	0.1104986	0.0241546	6.91E-06
C	T	0.27	0.112833	0.02414075	4.44E-06
T	C	0.27	0.1115827	0.02421729	5.97E-06
T	A	0.27	0.1104986	0.0241546	6.91E-06
G	A	0.27	0.1104986	0.0241546	6.91E-06
G	C	0.27	0.1104986	0.0241546	6.91E-06
GTT	G	0.04	-0.2334219	0.05118055	7.35E-06
A	AGT	0.1	-0.1898371	0.03967658	2.68E-06
A	G	0.05	-0.2393019	0.05067357	3.56E-06
T	G	0.05	-0.2336667	0.04770113	1.58E-06
C	G	0.04	-0.2480774	0.05463873	8.04E-06
T	G	0.04	-0.2558554	0.05500367	4.90E-06
C	T	0.04	-0.2558554	0.05500367	4.90E-06
G	GGTGTGTGTGT	0.1	-0.1777928	0.03808005	4.54E-06
A	C	0.27	-0.1154336	0.02528612	7.21E-06
A	G	0.01	-0.4645814	0.09615097	2.16E-06
G	A	0.01	-0.4733778	0.1040857	7.78E-06
A	ACACACACACACAC	0.01	-0.4531013	0.09865626	6.38E-06

A	G	0.02	-0.3634372	0.08076279	9.60E-06
G	A	0.02	-0.3947212	0.08521414	5.35E-06
C	CA	0.01	-0.5156847	0.1074032	2.48E-06
G	A	0.01	-0.5034173	0.1114334	8.89E-06
C	T	0.17	-0.1385691	0.03059287	8.44E-06
G	A	0.17	-0.1385691	0.03059287	8.44E-06
TA	T	0.02	-0.4113905	0.08620035	2.84E-06
C	CAA	0.18	-0.1315669	0.02769085	3.12E-06
TTGTGTGTG	T	0.01	-0.4805997	0.09390981	5.60E-07
TA	T	0.05	-0.2306744	0.05052805	7.20E-06
A	AC	0.05	-0.2359768	0.05017406	3.89E-06
A	T	0.05	-0.2293647	0.04992819	6.35E-06
T	C	0.05	-0.2415816	0.0504098	2.59E-06
T	C	0.05	-0.2347897	0.05018367	4.34E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
G	C	0.05	-0.2243453	0.04967323	8.93E-06
A	G	0.05	-0.2243453	0.04967323	8.93E-06
T	C	0.05	-0.2293647	0.04992819	6.35E-06
C	A	0.05	-0.2293647	0.04992819	6.35E-06
C	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
C	T	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
A	T	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2409779	0.04900862	1.45E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
T	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
C	T	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2243453	0.04967323	8.93E-06
G	C	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
T	A	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
C	A	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
G	C	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
T	G	0.05	-0.2288456	0.04992301	6.63E-06
ATTC	A	0.05	-0.2308166	0.04991454	5.54E-06
C	T	0.05	-0.2293647	0.04992819	6.35E-06
G	GA	0.05	-0.2359768	0.05017406	3.89E-06
T	C	0.05	-0.2293647	0.04992819	6.35E-06
C	G	0.05	-0.2340592	0.0501968	4.66E-06

G	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
C	A	0.05	-0.2243453	0.04967323	8.93E-06
A	C	0.05	-0.2293647	0.04992819	6.35E-06
A	C	0.05	-0.2293647	0.04992819	6.35E-06
T	C	0.05	-0.2293647	0.04992819	6.35E-06
G	T	0.05	-0.2293647	0.04992819	6.35E-06
T	G	0.05	-0.2293647	0.04992819	6.35E-06
GGCCACAAGACTATA	T	0.05	-0.2430212	0.05040599	2.27E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
T	A	0.05	-0.2293647	0.04992819	6.35E-06
T	C	0.05	-0.2293647	0.04992819	6.35E-06
A	T	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
T	C	0.05	-0.2293647	0.04992819	6.35E-06
A	T	0.05	-0.2345587	0.05077191	5.65E-06
C	T	0.05	-0.2293647	0.04992819	6.35E-06
G	GT	0.05	-0.2359768	0.05017406	3.89E-06
G	A	0.05	-0.2354266	0.05019277	4.12E-06
A	T	0.05	-0.2293647	0.04992819	6.35E-06
G	A	0.05	-0.2293647	0.04992819	6.35E-06
A	T	0.05	-0.2293647	0.04992819	6.35E-06
C	A	0.05	-0.2293647	0.04992819	6.35E-06
A	G	0.05	-0.2293647	0.04992819	6.35E-06
C	T	0.05	-0.2293647	0.04992819	6.35E-06
CT	C	0.05	-0.2359768	0.05017406	3.89E-06
G	A	0.05	-0.2360035	0.05012221	3.79E-06
A	T	0.05	-0.2201924	0.04888256	9.41E-06
TA	T	0.05	-0.2286123	0.04818223	3.22E-06
C	T	0.05	-0.2201924	0.04888256	9.41E-06
A	G	0.05	-0.2201924	0.04888256	9.41E-06
C	A	0.05	-0.2201924	0.04888256	9.41E-06
C	T	0.05	-0.2201924	0.04888256	9.41E-06
T	A	0.05	-0.2201924	0.04888256	9.41E-06
A	G	0.05	-0.2201924	0.04888256	9.41E-06
G	A	0.05	-0.2201924	0.04888256	9.41E-06
A	G	0.05	-0.2245343	0.04912939	7.05E-06
A	G	0.02	-0.335487	0.07367529	7.59E-06
G	T	0.04	-0.2816947	0.06088786	5.49E-06
TTGTGTG	T	0.05	-0.2683826	0.05286109	6.81E-07
C	T	0.02	-0.3872249	0.08188843	3.46E-06
C	T	0.01	-0.4740107	0.1043184	7.92E-06
T	C	0.35	-0.2508626	0.0547953	6.86E-06
A	G	0.34	-0.253301	0.05539499	7.03E-06
T	C	0.23	-0.2986585	0.06455012	5.53E-06
T	C	0.02	0.8200666	0.1819506	9.38E-06
C	T	0.02	1.143992	0.2226419	5.14E-07
G	A	0.02	1.143992	0.2226419	5.14E-07
T	C	0.02	1.143992	0.2226419	5.14E-07
G	GCACA	0.03	-0.7358488	0.1507733	1.74E-06

G	T	0.01	1.358102	0.2647242	5.34E-07
C	G	0.01	1.167363	0.2460641	3.26E-06
T	C	0.03	-0.7457123	0.1639491	7.82E-06
T	C	0.28	-0.2779676	0.0595657	4.62E-06
C	A	0.23	-0.2874691	0.06191978	5.15E-06
TA	T	0.02	0.9957554	0.2211681	9.58E-06
G	A	0.01	1.052166	0.2327131	8.81E-06
A	C	0.2	-0.335991	0.06937755	2.07E-06
G	C	0.03	0.760129	0.1671355	7.84E-06
A	C	0.03	0.788312	0.1688293	4.57E-06
A	C	0.03	0.760129	0.1671355	7.84E-06
C	T	0.03	0.760129	0.1671355	7.84E-06
T	C	0.03	0.760129	0.1671355	7.84E-06
T	C	0.03	0.760129	0.1671355	7.84E-06
C	T	0.03	0.760129	0.1671355	7.84E-06
T	C	0.03	0.760129	0.1671355	7.84E-06
G	A	0.03	0.760129	0.1671355	7.84E-06
TAGTG	T	0.16	0.3545292	0.07770708	7.36E-06
G	A	0.13	0.4252386	0.08291057	5.38E-07
C	T	0.13	0.4252386	0.08291057	5.38E-07
C	T	0.25	0.2870241	0.06288643	7.30E-06
G	T	0.01	1.305479	0.2596756	8.74E-07
C	A	0.01	1.305479	0.2596756	8.74E-07
G	A	0.01	1.305479	0.2596756	8.74E-07
C	G	0.01	1.305479	0.2596756	8.74E-07
C	T	0.01	1.305479	0.2596756	8.74E-07
T	C	0.01	1.305479	0.2596756	8.74E-07
T	C	0.01	1.305479	0.2596756	8.74E-07
C	T	0.06	0.5027905	0.1036408	1.99E-06
T	G	0.06	0.4736774	0.1041508	7.84E-06
T	G	0.07	0.4904939	0.1031278	3.08E-06
CT	C	0.06	0.4796771	0.1057541	8.27E-06
T	C	0.06	0.4829755	0.1046724	5.85E-06
G	A	0.06	0.4829755	0.1046724	5.85E-06
T	C	0.06	0.4829755	0.1046724	5.85E-06
C	T	0.06	-0.5310895	0.1110985	2.76E-06
C	T	0.06	-0.5013409	0.1102643	7.88E-06
A	G	0.01	1.16126	0.2582577	9.82E-06
T	C	0.03	-0.7596739	0.1601201	3.25E-06
T	C	0.03	0.6359021	0.1415428	9.99E-06
G	A	0.03	0.7188821	0.1594083	9.27E-06
C	T	0.03	0.7188821	0.1594083	9.27E-06
CA	C	0.03	0.7188821	0.1594083	9.27E-06
T	C	0.03	0.7689802	0.1633708	3.86E-06
A	G	0.03	0.8207938	0.1713841	2.65E-06
T	G	0.03	0.7427867	0.1636217	8.13E-06
C	T	0.04	0.6295265	0.1375686	6.92E-06
T	C	0.06	0.5488323	0.1183076	5.23E-06
T	C	0.02	0.9657714	0.1885148	5.53E-07
G	A	0.29	-0.2701519	0.05938073	7.79E-06

A	T	0.32	-0.2958021	0.05818577	6.68E-07
A	T	0.32	-0.2985779	0.05792647	4.75E-07
G	A	0.17	-0.3345188	0.0680056	1.46E-06
C	A	0.01	1.081576	0.2385232	8.32E-06
GCA	G	0.02	-0.4139171	0.08810478	3.98E-06
C	T	0.11	-0.1953461	0.0412949	3.43E-06
T	G	0.05	-0.2805463	0.05939946	3.55E-06
G	C	0.32	0.1243268	0.02682572	5.29E-06
T	C	0.32	0.1252058	0.02689744	4.83E-06
T	C	0.34	0.1287197	0.02643384	1.81E-06
A	G	0.15	0.1838646	0.03542562	3.95E-07
G	A	0.13	0.1808263	0.03910041	5.53E-06
C	A	0.13	0.1783361	0.03951045	9.04E-06
G	C	0.13	0.1783361	0.03951045	9.04E-06
A	G	0.14	0.1775865	0.03936318	9.13E-06
G	T	0.13	0.1808775	0.03944245	6.58E-06
G	A	0.13	0.1783361	0.03951045	9.04E-06
C	T	0.14	0.184422	0.03929502	4.07E-06
G	A	0.13	0.1783361	0.03951045	9.04E-06
G	C	0.13	0.1783361	0.03951045	9.04E-06
A	G	0.13	0.180856	0.03978306	7.84E-06
C	T	0.13	0.1808263	0.03910041	5.53E-06
C	T	0.13	0.1783361	0.03951045	9.04E-06
C	T	0.14	0.1827369	0.03901554	4.24E-06
G	GT	0.04	0.3218986	0.06630493	1.94E-06
ATATG	A	0.28	0.1464039	0.03036945	2.27E-06
G	A	0.22	0.145402	0.03181899	7.07E-06
A	G	0.15	0.1695552	0.03748938	8.69E-06
A	G	0.02	-0.3906462	0.08565928	7.36E-06
A	G	0.5	-0.1109547	0.02445029	8.13E-06
CT	C	0.5	-0.1100488	0.02439923	9.18E-06
A	AT	0.19	0.1507489	0.03351824	9.71E-06
C	T	0.02	1.012735	0.2234967	8.37E-06
G	A	0.01	1.171109	0.2284646	5.38E-07
T	G	0.01	1.171109	0.2284646	5.38E-07
G	C	0.01	1.225992	0.2575027	2.99E-06
C	G	0.01	1.225992	0.2575027	2.99E-06
A	G	0.01	1.171109	0.2284646	5.38E-07
A	G	0.01	1.171109	0.2284646	5.38E-07
C	CTTATTATTACTTA1	0.03	0.6924428	0.1505387	6.18E-06
CTCTCTG	C	0.09	0.435669	0.09561561	7.49E-06
GAC	G	0.26	-0.3012054	0.06411623	3.98E-06
G	A	0.24	-0.3049555	0.06112126	1.03E-06
G	T	0.07	0.5148968	0.1094167	3.84E-06
A	G	0.07	-0.4767762	0.1012381	3.78E-06
T	C	0.07	-0.4605903	0.1021495	9.23E-06
G	A	0.02	0.830391	0.177848	4.53E-06
A	T	0.01	1.087891	0.2416407	9.51E-06
A	T	0.35	0.2814662	0.05502928	5.68E-07
G	A	0.32	0.2856838	0.05512008	4.09E-07

G	A	0.37	0.3023785	0.05514215	9.19E-08
A	G	0.45	0.2645019	0.05391141	1.53E-06
G	A	0.37	0.3005871	0.05531455	1.18E-07
AC	A	0.24	0.2882354	0.06392018	9.22E-06
A	G	0.24	0.2902373	0.0633592	6.73E-06
G	A	0.14	-0.3372135	0.07499035	9.74E-06
T	C	0.14	-0.3468127	0.07499627	5.54E-06
C	T	0.14	-0.3468127	0.07499627	5.54E-06
C	A	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3468127	0.07499627	5.54E-06
C	A	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3468127	0.07499627	5.54E-06
C	A	0.14	-0.3419071	0.07513073	7.68E-06
T	C	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3468127	0.07499627	5.54E-06
CT	C	0.14	-0.3468127	0.07499627	5.54E-06
C	A	0.13	-0.356428	0.07554978	3.64E-06
G	C	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3468127	0.07499627	5.54E-06
G	C	0.14	-0.3468127	0.07499627	5.54E-06
G	A	0.14	-0.3444165	0.07551756	7.35E-06
A	G	0.14	-0.3319803	0.07389758	9.92E-06
C	T	0.14	-0.3375428	0.07466614	8.77E-06
CTTTCTTTTCT	C	0.16	-0.3296514	0.07326227	9.62E-06
A	AAGAAAGAAAGAAAC	0.03	0.736178	0.1593799	5.67E-06
G	A	0.02	0.7863343	0.1724937	7.42E-06
GAGAGA	G	0.03	0.7754933	0.1595277	1.88E-06
C	T	0.02	0.8009818	0.1741772	6.21E-06
T	C	0.02	0.7863343	0.1724937	7.42E-06
C	A	0.02	0.7863343	0.1724937	7.42E-06
C	T	0.02	0.7863343	0.1724937	7.42E-06
G	T	0.02	0.7863343	0.1724937	7.42E-06
T	C	0.02	0.7863343	0.1724937	7.42E-06
A	T	0.02	0.7863343	0.1724937	7.42E-06
A	G	0.02	0.7863343	0.1724937	7.42E-06
A	G	0.02	0.7863343	0.1724937	7.42E-06
C	T	0.02	0.7863343	0.1724937	7.42E-06
A	G	0.02	0.7863343	0.1724937	7.42E-06
C	A	0.02	0.7863343	0.1724937	7.42E-06
C	T	0.02	0.7863343	0.1724937	7.42E-06
G	A	0.02	0.8131847	0.1749326	4.97E-06
T	C	0.02	0.7863343	0.1724937	7.42E-06
A	G	0.02	0.7863343	0.1724937	7.42E-06
T	G	0.37	0.245554	0.05446749	9.26E-06
C	CT	0.38	0.2524265	0.05429172	4.95E-06
C	T	0.37	0.24795	0.05451113	7.75E-06
C	T	0.07	0.464028	0.09900536	4.18E-06
A	T	0.02	-0.9834422	0.2146976	6.73E-06
TC	T	0.01	-1.105633	0.2355719	4.06E-06

T	C	0.02	1.025117	0.2130225	2.36E-06
C	T	0.02	1.025117	0.2130225	2.36E-06
T	C	0.03	-0.7762908	0.1681669	5.75E-06
AG	A	0.03	-0.7762908	0.1681669	5.75E-06
A	G	0.03	-0.7762908	0.1681669	5.75E-06
T	G	0.03	-0.7762908	0.1681669	5.75E-06
G	A	0.03	-0.7762908	0.1681669	5.75E-06
A	G	0.03	-0.7762908	0.1681669	5.75E-06
C	G	0.03	-0.7762908	0.1681669	5.75E-06
A	G	0.03	-0.7762908	0.1681669	5.75E-06
G	A	0.02	-1.024651	0.1986875	4.63E-07
C	CT	0.21	-0.3101337	0.06466323	2.54E-06
CA	C	0.02	-0.8229804	0.1788118	6.11E-06
ACTT	A	0.01	1.148011	0.2491094	5.95E-06
C	T	0.02	0.8678761	0.1793455	2.09E-06
C	T	0.11	-0.4231673	0.09032576	4.22E-06
A	AT	0.12	0.3553105	0.07875835	9.13E-06
A	G	0.07	-0.429963	0.0932978	5.95E-06
A	G	0.24	0.2585315	0.05742725	9.52E-06
T	C	0.02	0.9471493	0.2089175	8.29E-06
G	A	0.02	0.9471493	0.2089175	8.29E-06
T	C	0.02	0.9471493	0.2089175	8.29E-06
G	A	0.01	1.134452	0.2272596	1.02E-06
T	G	0.01	1.134452	0.2272596	1.02E-06
G	C	0.01	1.193591	0.2555938	4.52E-06
C	G	0.01	1.193591	0.2555938	4.52E-06
A	G	0.01	1.134452	0.2272596	1.02E-06
A	G	0.01	1.134452	0.2272596	1.02E-06
C	CTTATTTATTTACTTA1	0.03	0.708047	0.14998	3.59E-06
GAC	G	0.26	-0.2927946	0.06382828	6.54E-06
G	A	0.24	-0.2988756	0.06075288	1.44E-06
A	G	0.07	-0.4846991	0.1004406	2.22E-06
T	C	0.07	-0.4691863	0.1013487	5.42E-06
G	T	0.07	-0.4644876	0.1009727	6.17E-06
C	T	0.05	0.5393202	0.1192479	8.69E-06
A	G	0.33	0.2523145	0.05597591	9.29E-06
A	T	0.35	0.2869306	0.05466335	2.96E-07
G	A	0.32	0.2894903	0.05481833	2.53E-07
G	A	0.37	0.3085506	0.05472317	4.16E-08
A	G	0.45	0.2783485	0.05346709	3.65E-07
G	A	0.37	0.3051615	0.05490742	6.30E-08
A	G	0.24	0.2844565	0.06288449	8.66E-06
T	C	0.14	-0.3384499	0.07446681	7.88E-06
C	T	0.14	-0.3384499	0.07446681	7.88E-06
C	A	0.14	-0.3384499	0.07446681	7.88E-06
G	A	0.14	-0.3384499	0.07446681	7.88E-06
C	A	0.14	-0.3384499	0.07446681	7.88E-06
G	A	0.14	-0.3384499	0.07446681	7.88E-06
G	A	0.14	-0.3384499	0.07446681	7.88E-06
T	C	0.14	-0.3384499	0.07446681	7.88E-06

G	A	0.14	-0.3384499	0.07446681	7.88E-06
CT	C	0.14	-0.3384499	0.07446681	7.88E-06
C	A	0.13	-0.3497985	0.07504273	4.69E-06
G	C	0.14	-0.3384499	0.07446681	7.88E-06
G	A	0.14	-0.3384499	0.07446681	7.88E-06
G	C	0.14	-0.3384499	0.07446681	7.88E-06
G	A	0.14	-0.3373174	0.07505022	9.83E-06
GAGAGA	G	0.03	0.7358227	0.1587453	5.28E-06
T	TCTCA	0.02	-0.8277518	0.1840392	9.70E-06
T	G	0.37	0.2544102	0.05408032	3.87E-06
C	CT	0.38	0.2591771	0.05392778	2.43E-06
C	T	0.37	0.2521862	0.05415344	4.79E-06
A	G	0.38	0.2516871	0.05437688	5.44E-06
A	AG	0.39	0.2381996	0.05282175	9.21E-06
T	TTGTGTG	0.03	-0.6696762	0.1477016	8.27E-06
A	T	0.02	-1.003494	0.2132178	3.83E-06
TC	T	0.01	-1.152238	0.233733	1.37E-06
T	C	0.02	1.006595	0.2120555	3.19E-06
C	T	0.02	1.006595	0.2120555	3.19E-06
T	C	0.17	-0.3171962	0.06859223	5.54E-06
T	C	0.03	-0.7800019	0.1667506	4.36E-06
AG	A	0.03	-0.7800019	0.1667506	4.36E-06
A	G	0.03	-0.7800019	0.1667506	4.36E-06
T	G	0.03	-0.7800019	0.1667506	4.36E-06
G	A	0.03	-0.7800019	0.1667506	4.36E-06
A	G	0.03	-0.7800019	0.1667506	4.36E-06
C	G	0.03	-0.7800019	0.1667506	4.36E-06
A	G	0.03	-0.7800019	0.1667506	4.36E-06
G	A	0.02	-1.055091	0.1975944	1.89E-07
C	CT	0.21	-0.3066348	0.06461354	3.21E-06
CA	C	0.02	-0.8297222	0.1773498	4.35E-06
C	T	0.07	-0.4623313	0.1018534	8.08E-06
C	T	0.03	-0.7273708	0.1612985	9.21E-06
G	C	0.09	-0.4109767	0.09088861	8.73E-06
G	A	0.09	-0.4109767	0.09088861	8.73E-06
A	G	0.09	-0.4171621	0.09032374	5.69E-06
C	T	0.11	-0.4281232	0.08990699	2.98E-06
A	G	0.07	-0.4522322	0.09276836	1.77E-06
G	A	0.38	-0.2382102	0.05237544	7.82E-06
C	T	0.38	-0.2382102	0.05237544	7.82E-06
C	T	0.38	-0.2383399	0.0522772	7.45E-06
C	A	0.38	-0.2399926	0.052302	6.54E-06
C	T	0.37	-0.2592448	0.05214041	1.13E-06
G	A	0.37	-0.2412331	0.05312141	8.06E-06
C	A	0.37	-0.2416312	0.05301957	7.50E-06
G	A	0.38	-0.2386727	0.05300237	9.53E-06
G	T	0.38	-0.2386727	0.05300237	9.53E-06
A	AGAAAT	0.37	-0.2499527	0.05343079	4.38E-06
T	A	0.38	-0.2386727	0.05300237	9.53E-06
G	A	0.38	-0.2386727	0.05300237	9.53E-06

CGTGTGTGTGTGTGT	C	0.12	0.3770101	0.0838445	9.80E-06
G	A	0.07	-0.467338	0.1017978	6.47E-06
C	G	0.01	-1.091886	0.2354177	5.24E-06
G	A	0.04	-0.6301956	0.1349567	4.55E-06
A	C	0.39	0.2291911	0.04953291	5.51E-06
G	A	0.02	-0.9492762	0.2034099	4.61E-06
G	A	0.01	-1.170541	0.2490227	3.96E-06
A	G	0.04	-0.6694511	0.1366689	1.60E-06
T	G	0.13	-0.330571	0.07332151	9.30E-06
T	C	0.16	0.3227418	0.06935109	4.89E-06
C	T	0.07	-0.4871776	0.1010399	2.28E-06
G	A	0.29	-0.2552961	0.0553222	5.82E-06
C	T	0.29	-0.2543002	0.05553725	6.82E-06
G	A	0.28	-0.2522945	0.05574506	8.62E-06
A	C	0.4	-0.2458602	0.05466538	9.76E-06
A	C	0.4	-0.2436333	0.05415859	9.72E-06
A	T	0.4	-0.2469073	0.05437524	8.07E-06
C	T	0.4	-0.2505426	0.05465046	6.66E-06
C	T	0.35	-0.2552774	0.05557808	6.41E-06
G	A	0.35	-0.2568035	0.05544022	5.39E-06
A	T	0.35	-0.2552774	0.05557808	6.41E-06
T	C	0.31	-0.25719	0.05573709	5.83E-06
G	A	0.32	-0.2621052	0.05616847	4.62E-06
C	T	0.32	-0.2551014	0.05637449	8.65E-06
G	GGGGTGTGTGTGT	0.03	0.5935978	0.1306225	7.95E-06
AAAG	A	0.02	-0.7940109	0.1747683	7.99E-06
G	C	0.01	-1.006744	0.2190295	6.31E-06
A	G	0.18	0.3133011	0.06568449	2.89E-06
G	A	0.08	-0.4368393	0.09366203	4.67E-06
G	A	0.08	-0.4315392	0.0930285	5.23E-06
T	A	0.08	-0.4334903	0.09334075	5.10E-06
T	C	0.08	-0.4224691	0.09130528	5.51E-06
T	C	0.08	-0.4242775	0.09159937	5.39E-06
G	A	0.08	-0.4217008	0.09188665	6.51E-06
T	C	0.08	-0.4132136	0.09022599	6.80E-06
C	T	0.08	-0.4217008	0.09188665	6.51E-06
C	T	0.08	-0.4334903	0.09334075	5.10E-06
G	T	0.07	-0.4414321	0.09658997	7.09E-06
T	TCA	0.04	-0.5853381	0.1302474	9.91E-06
A	T	0.02	-0.9583674	0.199882	2.58E-06
C	T	0.01	-1.085506	0.2377512	7.23E-06
T	C	0.1	-0.396076	0.08668604	7.13E-06
C	T	0.03	-0.7115486	0.1535182	5.32E-06
A	G	0.26	0.2841176	0.06028204	3.74E-06
C	T	0.01	-1.094989	0.225321	1.91E-06
T	G	0.01	-1.01969	0.2202111	5.42E-06
C	G	0.01	-1.094989	0.225321	1.91E-06
C	G	0.04	0.6042705	0.1266992	2.90E-06
C	T	0.38	-0.2410606	0.05316468	8.31E-06
C	T	0.03	0.7621253	0.1626279	4.22E-06

A	G	0.13	0.3559324	0.07779764	6.94E-06
TAA	T	0.05	0.5717685	0.1209289	3.50E-06
C	T	0.05	0.6327457	0.127109	1.10E-06
T	C	0.12	0.3709622	0.07885804	3.90E-06
G	A	0.46	0.2330903	0.05140092	8.29E-06
T	G	0.39	-0.2357684	0.05245171	9.87E-06
A	G	0.4	-0.2511511	0.05167237	1.91E-06
T	TAGAG	0.41	-0.2601794	0.05121934	6.79E-07
C	T	0.43	-0.2572929	0.05022714	5.53E-07
C	T	0.37	-0.2518004	0.05246331	2.52E-06
G	T	0.37	-0.2355469	0.05240484	9.88E-06
C	CAA	0.04	0.638653	0.1398997	7.25E-06
TG	T	0.01	-1.011512	0.2192879	5.87E-06
T	C	0.13	-0.3521454	0.07352675	2.64E-06
A	T	0.13	-0.3533866	0.07354514	2.46E-06
A	AAGAAAGAAG	0.29	-0.2516186	0.05404865	4.85E-06
TATAATA	T	0.1	0.396497	0.0879943	9.41E-06
A	G	0.13	0.3360366	0.07348927	7.02E-06
C	T	0.02	-0.7831583	0.1743448	1.00E-05
G	A	0.07	-0.4858124	0.1002016	2.02E-06
T	G	0.03	-0.7819261	0.1685829	5.24E-06
G	GGCAGCACCTCCCCA	0.49	-0.2457714	0.04730022	3.87E-07
C	CATCTATCT	0.01	-1.164591	0.2561428	7.86E-06
G	A	0.05	-0.6231885	0.1282907	1.93E-06
T	TGAGAGAGAGA	0.02	-0.7486505	0.1646884	7.88E-06
T	C	0.01	-1.19821	0.2550339	3.99E-06
C	CA	0.01	-1.19821	0.2550339	3.99E-06
C	T	0.01	-1.19821	0.2550339	3.99E-06
C	A	0.02	-0.7912059	0.1758618	9.68E-06
C	G	0.02	-0.8807292	0.1948626	8.84E-06
G	GAAAGAAAGA	0.02	-1.054882	0.2120983	1.12E-06
A	G	0.01	-1.337932	0.2572907	3.79E-07
A	T	0.32	0.2549501	0.05670239	9.80E-06
C	A	0.33	0.256231	0.05645768	8.14E-06
C	T	0.47	-0.261031	0.05408409	2.23E-06
G	A	0.01	-1.203288	0.2638828	7.41E-06
TACACAC	T	0.06	0.5364534	0.1169847	6.61E-06
C	T	0.1	0.4150968	0.08751482	3.26E-06
A	G	0.17	0.3256828	0.07227182	9.38E-06
C	T	0.1	0.4273076	0.08773828	1.82E-06
GGAAGAA	G	0.09	0.4510997	0.09429664	2.71E-06
C	T	0.09	0.4573541	0.09774141	4.35E-06
A	G	0.01	-1.057274	0.2293682	5.95E-06
TGCGTGC	T	0.02	-0.8933853	0.1915905	4.68E-06
T	C	0.18	-0.3198555	0.07064768	8.55E-06
A	C	0.19	-0.3118703	0.06885333	8.47E-06
G	A	0.19	-0.3100956	0.06895836	9.77E-06
C	T	0.19	-0.3097555	0.06885609	9.70E-06
C	T	0.2	-0.3093466	0.06823603	8.33E-06
G	A	0.2	-0.3095667	0.06847698	8.80E-06

A	C	0.2	-0.3098006	0.06860384	9.00E-06
G	A	0.2	-0.3098006	0.06860384	9.00E-06
A	G	0.2	-0.3122496	0.06861493	7.72E-06
A	C	0.2	-0.3144952	0.06765118	4.99E-06
A	G	0.19	-0.3156914	0.06815145	5.37E-06
G	C	0.07	-0.5068025	0.1092817	5.25E-06
C	T	0.04	-0.5937624	0.1304961	7.74E-06
T	C	0.02	-0.8115373	0.1768691	6.53E-06
G	C	0.02	-0.9051447	0.2005758	9.12E-06
C	T	0.24	-0.3367274	0.06400736	2.82E-07
G	A	0.24	-0.3289424	0.06425628	5.60E-07
G	A	0.25	-0.2881644	0.06256671	6.05E-06
G	A	0.25	-0.3083668	0.06141648	8.96E-07
C	T	0.24	-0.3195935	0.06425211	1.12E-06
T	TA	0.25	-0.315992	0.06299858	9.18E-07
T	C	0.24	-0.3204304	0.06396927	9.48E-07
C	T	0.24	-0.316146	0.06429359	1.46E-06
C	G	0.24	-0.3195935	0.06425211	1.12E-06
C	A	0.24	-0.3275234	0.06395422	5.55E-07
G	A	0.24	-0.316146	0.06429359	1.46E-06
C	T	0.24	-0.3118521	0.06405369	1.83E-06
G	T	0.24	-0.3118521	0.06405369	1.83E-06
G	A	0.26	-0.3004815	0.06152383	1.71E-06
C	A	0.24	-0.3355621	0.06342548	2.43E-07
A	G	0.24	-0.3162299	0.06377608	1.20E-06
T	TA	0.25	-0.309716	0.06356942	1.80E-06
C	A	0.24	-0.316146	0.06429359	1.46E-06
C	T	0.24	-0.316146	0.06429359	1.46E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
C	G	0.24	-0.3085858	0.06399431	2.27E-06
T	C	0.24	-0.316146	0.06429359	1.46E-06
T	C	0.24	-0.316146	0.06429359	1.46E-06
C	A	0.24	-0.316146	0.06429359	1.46E-06
C	T	0.24	-0.316146	0.06429359	1.46E-06
T	A	0.27	-0.3034173	0.0619418	1.59E-06
C	T	0.24	-0.316146	0.06429359	1.46E-06
G	A	0.24	-0.3139091	0.0639582	1.52E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
T	C	0.24	-0.3195935	0.06425211	1.12E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
A	G	0.24	-0.316146	0.06429359	1.46E-06
T	C	0.24	-0.3052279	0.06411731	3.01E-06
A	G	0.24	-0.2926545	0.06386437	6.71E-06
T	C	0.24	-0.316146	0.06429359	1.46E-06
C	A	0.24	-0.316146	0.06429359	1.46E-06
C	T	0.24	-0.3163438	0.06375375	1.18E-06
C	T	0.24	-0.316146	0.06429359	1.46E-06
C	A	0.24	-0.3140221	0.06400405	1.54E-06

A	G	0.24	-0.3125985	0.06404774	1.73E-06
T	A	0.24	-0.316146	0.06429359	1.46E-06
G	A	0.24	-0.316146	0.06429359	1.46E-06
T	C	0.24	-0.3161837	0.06406518	1.34E-06
C	T	0.24	-0.316146	0.06429359	1.46E-06
A	T	0.24	-0.3137013	0.06368367	1.40E-06
T	C	0.24	-0.3137013	0.06368367	1.40E-06
C	T	0.24	-0.3157772	0.06396654	1.33E-06
CT	C	0.24	-0.3159947	0.06355887	1.13E-06
C	T	0.24	-0.3107223	0.06359571	1.69E-06
C	T	0.24	-0.3157772	0.06396654	1.33E-06
G	A	0.24	-0.3168348	0.06372028	1.13E-06
A	G	0.27	-0.2939034	0.06148098	2.75E-06
A	T	0.24	-0.3254064	0.06399229	6.60E-07
G	A	0.25	-0.3151425	0.06151725	5.51E-07
C	T	0.24	-0.3178581	0.06343278	9.40E-07
C	T	0.24	-0.3192252	0.06405952	1.07E-06
T	C	0.41	0.2710681	0.05577133	1.90E-06
A	G	0.02	-0.9614462	0.2121237	8.36E-06
G	A	0.04	-0.678387	0.1421367	2.85E-06
C	A	0.03	-0.8019983	0.1726442	5.07E-06
G	A	0.02	-0.9429394	0.1854885	6.65E-07
C	T	0.03	-0.8364911	0.1751506	2.81E-06
G	T	0.03	-0.8019983	0.1726442	5.07E-06
G	T	0.03	-0.8110873	0.1783373	7.81E-06
A	G	0.03	-0.8019983	0.1726442	5.07E-06
C	A	0.03	-0.8019983	0.1726442	5.07E-06
A	G	0.03	-0.8019983	0.1726442	5.07E-06
C	T	0.03	-0.7545478	0.1584342	2.98E-06
G	A	0.02	-0.8194303	0.1812439	8.79E-06
G	A	0.03	-0.8199815	0.175207	4.34E-06
C	T	0.03	-0.8199815	0.175207	4.34E-06
C	G	0.03	-0.8199815	0.175207	4.34E-06
T	C	0.03	-0.8199815	0.175207	4.34E-06
C	G	0.01	-1.31544	0.262888	9.72E-07
A	AACAC	0.03	-0.7622126	0.1685391	8.74E-06
T	C	0.21	-0.2994093	0.06609135	8.44E-06
CGT	C	0.07	-0.5305696	0.1085708	1.68E-06
G	C	0.01	-1.064	0.2251133	3.51E-06
T	G	0.41	0.2515198	0.0553018	7.81E-06
A	G	0.02	-0.8556528	0.1892469	8.78E-06
T	G	0.02	-0.8556528	0.1892469	8.78E-06
C	A	0.02	-0.8556528	0.1892469	8.78E-06
G	T	0.01	-1.166485	0.2526021	5.73E-06
G	A	0.01	-1.219853	0.2617642	4.74E-06
C	T	0.01	-1.219853	0.2617642	4.74E-06
G	C	0.01	-1.219853	0.2617642	4.74E-06
TGA	T	0.02	-0.8559236	0.1871142	6.95E-06
T	C	0.03	-0.7941716	0.1712478	5.25E-06
A	C	0.03	-0.719922	0.1555199	5.45E-06

G	GA	0.03	-0.6299997	0.13327	3.50E-06
C	T	0.01	-1.249449	0.2554148	1.64E-06
G	A	0.01	-1.150779	0.2470778	4.80E-06
T	G	0.1	-0.3925733	0.08669163	8.51E-06
C	T	0.1	-0.3925733	0.08669163	8.51E-06
A	ATTATGTTATGTTATG	0.03	-0.7061639	0.156906	9.62E-06
G	T	0.02	-0.9766187	0.2000942	1.73E-06
G	T	0.04	-0.6353968	0.1361206	4.58E-06
A	G	0.02	-0.9468381	0.2090805	8.51E-06
G	A	0.31	-0.2813225	0.05945858	3.44E-06
G	A	0.34	-0.265852	0.05770148	6.00E-06
CA	C	0.02	-0.9138067	0.2010531	7.91E-06
C	CTT	0.02	-0.9233392	0.1770309	3.51E-07
A	AT	0.02	-0.9695775	0.2144049	8.75E-06
G	T	0.01	-1.152154	0.2490829	5.54E-06
C	T	0.01	-1.152154	0.2490829	5.54E-06
C	T	0.01	-1.152154	0.2490829	5.54E-06
G	T	0.01	-1.152154	0.2490829	5.54E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
G	T	0.01	-1.04847	0.215542	1.87E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
C	CT	0.01	-1.04847	0.215542	1.87E-06
T	A	0.01	-1.04847	0.215542	1.87E-06
C	G	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
C	A	0.01	-1.04847	0.215542	1.87E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
T	A	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
TA	T	0.01	-1.04847	0.215542	1.87E-06
CA	C	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
A	C	0.01	-1.04847	0.215542	1.87E-06
A	C	0.01	-1.04847	0.215542	1.87E-06
C	G	0.01	-1.04847	0.215542	1.87E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
C	CTAAGT	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06

A	G	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
A	T	0.01	-1.04847	0.215542	1.87E-06
A	T	0.02	-0.9113608	0.1932096	3.67E-06
CAA	C	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
T	A	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
A	C	0.01	-1.04847	0.215542	1.87E-06
G	C	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
C	A	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
T	A	0.01	-1.04847	0.215542	1.87E-06
A	C	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.030996	0.2194222	3.99E-06
C	G	0.01	-1.017958	0.2209063	5.98E-06
C	CG	0.01	-1.017958	0.2209063	5.98E-06
G	T	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.092759	0.2192121	1.06E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
ACACTGGG	A	0.01	-1.04847	0.215542	1.87E-06
A	C	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
G	T	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
GT	G	0.01	-1.04847	0.215542	1.87E-06
C	A	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.04847	0.215542	1.87E-06
T	G	0.01	-1.04847	0.215542	1.87E-06
T	A	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
G	T	0.01	-1.04847	0.215542	1.87E-06
C	A	0.01	-1.04847	0.215542	1.87E-06
AG	A	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
TAAGC	T	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
G	T	0.01	-1.04847	0.215542	1.87E-06

A	T	0.01	-1.04847	0.215542	1.87E-06
A	G	0.01	-1.04847	0.215542	1.87E-06
T	C	0.01	-1.04847	0.215542	1.87E-06
C	T	0.01	-1.05408	0.2209387	2.87E-06
A	T	0.01	-1.04847	0.215542	1.87E-06
AAAT	A	0.01	-1.04847	0.215542	1.87E-06
AT	A	0.01	-1.04847	0.215542	1.87E-06
G	A	0.01	-1.04847	0.215542	1.87E-06
G	A	0.04	-0.6326381	0.1407265	9.83E-06
G	A	0.05	-0.5722289	0.1238873	5.70E-06
C	G	0.11	0.3989126	0.08843878	9.20E-06
C	A	0.33	0.2626225	0.05652877	5.06E-06
G	A	0.01	-1.559313	0.2776025	4.69E-08
A	C	0.01	-1.574607	0.2764755	3.13E-08
G	A	0.09	-0.4824057	0.09374383	4.92E-07
C	T	0.09	-0.4326027	0.09426113	6.50E-06
T	C	0.01	-1.133304	0.2469121	6.49E-06
ATC	A	0.01	-1.376626	0.2698118	6.08E-07
G	GT	0.01	-1.376626	0.2698118	6.08E-07
G	A	0.31	-0.3011353	0.05781309	3.63E-07
G	GA	0.05	-0.5797222	0.1228079	3.61E-06
G	A	0.01	-1.236129	0.2678389	5.80E-06
C	A	0.07	-0.5338578	0.1067519	9.85E-07
C	T	0.02	-0.9864643	0.1989966	1.21E-06
C	G	0.01	-1.076303	0.2266106	3.17E-06
C	T	0.01	-1.076303	0.2266106	3.17E-06
A	AC	0.11	-0.3972373	0.08566333	5.26E-06
A	G	0.12	-0.3661267	0.07651917	2.70E-06
T	TG	0.26	0.3018885	0.06288865	2.51E-06
TA	T	0.25	0.2839369	0.06294205	9.18E-06
TA	T	0.09	-0.4204665	0.09190864	6.92E-06
G	GA	0.13	-0.3718193	0.07951447	4.40E-06
C	T	0.27	-0.2710295	0.05692127	2.99E-06
C	T	0.01	-1.117461	0.2402725	4.93E-06
C	T	0.02	-0.990649	0.2201772	9.65E-06
T	TA	0.16	-0.3424539	0.07130217	2.47E-06
C	T	0.33	0.2734016	0.05765464	3.27E-06
G	A	0.37	0.2738774	0.05584278	1.55E-06
C	T	0.47	-0.2567215	0.05436361	3.57E-06
A	G	0.04	-0.6366058	0.1408732	8.85E-06
T	C	0.04	-0.6366058	0.1408732	8.85E-06
A	G	0.04	-0.6366058	0.1408732	8.85E-06
T	C	0.04	-0.6366058	0.1408732	8.85E-06
T	C	0.17	-0.2982594	0.0640216	4.76E-06
A	G	0.09	-0.4312517	0.09324969	5.55E-06
C	CA	0.05	-0.5349225	0.1183166	8.77E-06
T	C	0.09	-0.4373162	0.09275733	3.70E-06
G	A	0.07	-0.5394806	0.1055349	5.79E-07
C	G	0.07	-0.5394806	0.1055349	5.79E-07
A	C	0.21	0.2927392	0.0638212	6.56E-06

TG	T	0.04	0.6080624	0.1309474	5.10E-06
A	AAC	0.06	-0.4911398	0.1081609	8.04E-06
T	C	0.38	-0.2765539	0.05428263	6.28E-07
T	A	0.38	-0.2765539	0.05428263	6.28E-07
A	T	0.38	-0.2815677	0.05421352	3.89E-07
T	G	0.37	-0.2793038	0.05413126	4.59E-07
GCA	G	0.37	-0.2722207	0.05424884	9.06E-07
GCACA	G	0.37	-0.2821326	0.05406899	3.46E-07
TC	T	0.37	-0.2874956	0.05416296	2.22E-07
A	C	0.37	-0.2932265	0.05423424	1.36E-07
A	G	0.37	-0.2904514	0.05438148	1.89E-07
G	A	0.37	-0.2573796	0.05453411	3.62E-06
A	G	0.37	-0.2932265	0.05423424	1.36E-07
G	A	0.42	-0.2479954	0.05414597	6.76E-06
G	A	0.04	0.5752248	0.1272314	8.77E-06
T	C	0.04	0.5760506	0.1250825	6.05E-06
A	G	0.04	0.5801149	0.1264851	6.58E-06
T	C	0.04	0.5760506	0.1250825	6.05E-06
G	A	0.04	0.5801149	0.1264851	6.58E-06
A	G	0.49	-0.2488314	0.05523977	9.43E-06
T	C	0.45	0.24991	0.05425454	6.02E-06
A	AT	0.09	-0.4252379	0.09270295	6.56E-06
G	A	0.11	-0.3804977	0.0814455	4.49E-06
G	T	0.11	-0.3804977	0.0814455	4.49E-06
G	A	0.11	-0.3754742	0.08161305	6.17E-06
A	G	0.12	-0.3767966	0.08131367	5.32E-06
A	G	0.1	-0.4315336	0.08861854	1.82E-06
C	T	0.09	-0.4241764	0.08958543	3.38E-06
G	A	0.01	-1.163209	0.2586402	9.73E-06
A	C	0.1	0.4060311	0.090327	9.83E-06
C	T	0.37	0.2474782	0.05455617	8.21E-06
G	T	0.38	0.2506538	0.05452781	6.28E-06
T	C	0.42	-0.2485042	0.05367901	5.43E-06
C	T	0.43	-0.2451752	0.05365607	7.09E-06
C	G	0.16	0.3219524	0.07162796	9.85E-06
A	G	0.16	0.3219524	0.07162796	9.85E-06
C	T	0.16	0.3235219	0.07183055	9.46E-06
T	TGTGA	0.16	0.3318848	0.07162118	5.32E-06
G	A	0.16	0.32888	0.07170523	6.57E-06
C	T	0.06	-0.5504166	0.1162956	3.41E-06
C	T	0.02	-0.8923559	0.1934028	5.82E-06
G	A	0.03	0.6985184	0.1467734	3.02E-06
C	T	0.01	1.086846	0.2329881	4.63E-06
TACAC	T	0.06	-0.550457	0.1138938	2.15E-06
A	G	0.01	-1.074427	0.2266127	3.28E-06
A	G	0.49	0.2444314	0.05412745	8.98E-06
A	G	0.48	0.2570909	0.05435138	3.45E-06
A	T	0.49	0.2492355	0.05419326	6.22E-06
G	A	0.14	0.3744975	0.07873086	3.06E-06
C	CT	0.22	-0.2825781	0.05807841	1.85E-06

G	GCA	0.01	-1.220893	0.2456169	1.13E-06
A	G	0.01	-1.220893	0.2456169	1.13E-06
G	T	0.22	0.2874402	0.06389407	9.68E-06
TAA	T	0.21	0.295794	0.06402218	5.66E-06
C	A	0.21	0.2900882	0.0644293	9.52E-06
G	T	0.22	0.2875584	0.06400233	9.93E-06
G	GACACACACACACAC	0.44	-0.2376264	0.05220469	7.66E-06
A	C	0.01	-1.239712	0.2566051	2.17E-06
TA	T	0.44	0.2401123	0.05231453	6.48E-06
A	G	0.44	0.2412766	0.05267266	6.75E-06
G	A	0.44	0.2419512	0.05251111	5.99E-06
C	T	0.44	0.2386776	0.05267623	8.40E-06
G	A	0.45	-0.2507415	0.05252761	2.83E-06
C	T	0.05	-0.5823057	0.1286618	8.59E-06
G	A	0.02	-1.095996	0.2219853	1.33E-06
G	T	0.2	0.2936717	0.0653282	9.82E-06
A	G	0.31	0.2782754	0.05721809	1.87E-06
G	C	0.4	-0.2609945	0.05745508	7.97E-06
C	G	0.11	0.4085288	0.0882829	5.47E-06
T	G	0.19	0.3707289	0.07247916	5.68E-07
G	A	0.06	-0.5205071	0.1119325	4.94E-06
ATC	A	0.01	1.118089	0.2322624	2.35E-06
G	A	0.04	-0.5986098	0.1292058	5.33E-06
T	C	0.25	0.3168652	0.06213938	6.13E-07
G	A	0.24	0.2985446	0.06324667	3.60E-06
C	T	0.24	0.2926791	0.06307968	5.17E-06
G	C	0.43	-0.2462616	0.05229557	3.79E-06
T	A	0.43	-0.2404409	0.05241048	6.53E-06
T	A	0.43	-0.2410549	0.05243216	6.25E-06
G	A	0.43	-0.2392413	0.05274121	8.20E-06
G	A	0.43	-0.242832	0.05266214	5.88E-06
A	G	0.08	-0.4650059	0.1027476	8.58E-06
A	G	0.29	-0.2717093	0.06010231	8.77E-06
C	T	0.13	-0.357946	0.0796709	9.91E-06
C	T	0.13	-0.3697875	0.07977273	5.27E-06
T	A	0.13	-0.3610368	0.07967936	8.38E-06
G	T	0.45	-0.2344874	0.05163304	8.01E-06
C	T	0.43	-0.2410449	0.05362367	9.81E-06
C	T	0.43	-0.2447924	0.05362604	7.22E-06
C	A	0.45	-0.2414	0.05312596	7.92E-06
G	A	0.45	-0.2406505	0.05320804	8.69E-06
C	A	0.45	-0.2414	0.05312596	7.92E-06
G	T	0.45	-0.2481157	0.05299989	4.29E-06
G	A	0.44	-0.2395776	0.05287849	8.39E-06
TA	T	0.02	0.9294159	0.1793337	4.10E-07
G	T	0.02	0.8771835	0.1749904	9.26E-07
C	A	0.02	0.8966825	0.1902303	3.71E-06
TA	T	0.02	0.9388515	0.185728	7.58E-07
G	A	0.02	0.8771835	0.1749904	9.26E-07
A	G	0.02	0.8330694	0.1725044	2.19E-06

A	T	0.02	0.8771835	0.1749904	9.26E-07
A	C	0.02	0.8771835	0.1749904	9.26E-07
A	G	0.02	0.8771835	0.1749904	9.26E-07
T	G	0.02	0.8771835	0.1749904	9.26E-07
G	A	0.02	0.8771835	0.1749904	9.26E-07
C	T	0.02	0.8771835	0.1749904	9.26E-07
G	C	0.01	1.120734	0.2281076	1.48E-06
T	C	0.01	1.192813	0.2506902	3.03E-06
T	C	0.25	-0.2681568	0.05965649	9.82E-06
A	C	0.25	-0.2700197	0.05994917	9.43E-06
G	A	0.25	-0.2749884	0.05956134	5.73E-06
C	CA	0.06	-0.5299434	0.1153932	6.39E-06
G	A	0.34	-0.2555348	0.05677787	9.58E-06
A	T	0.25	-0.2806257	0.06087902	5.92E-06
G	A	0.24	-0.2956523	0.0623027	3.21E-06
A	T	0.25	-0.2946112	0.06203902	3.16E-06
C	A	0.25	-0.292096	0.06203487	3.80E-06
C	T	0.25	-0.2831788	0.06210801	7.40E-06
G	T	0.25	-0.2902075	0.06235519	4.85E-06
C	T	0.25	-0.2852203	0.06154509	5.30E-06
AAACTATAGAGATG	A	0.24	-0.2958572	0.06332996	4.48E-06
G	A	0.24	-0.2907607	0.06293679	5.66E-06
A	C	0.02	-1.006481	0.2180445	5.76E-06
C	CGATG	0.03	0.8371801	0.1678041	1.04E-06
G	T	0.12	0.3827047	0.08231333	4.96E-06
A	T	0.03	0.7702227	0.1616634	2.94E-06
A	T	0.02	0.9416165	0.1779237	2.39E-07
T	G	0.02	0.9131909	0.1731159	2.61E-07
C	T	0.02	0.9131909	0.1731159	2.61E-07
T	C	0.03	0.8138871	0.1689206	2.30E-06
C	T	0.02	0.8298958	0.1698081	1.67E-06
C	T	0.09	0.4045808	0.08918891	8.19E-06
G	A	0.1	0.4002026	0.08682623	5.93E-06
C	CTGTG	0.03	0.7080668	0.1545028	6.67E-06
C	G	0.01	1.026119	0.2220274	5.61E-06
A	G	0.18	0.3196262	0.06750376	3.37E-06
C	T	0.18	0.3184624	0.06869298	5.26E-06
G	A	0.03	-0.7575906	0.166798	7.99E-06
C	T	0.14	0.3691313	0.07943604	5.01E-06
A	AGTGTGTGTGT	0.04	-0.6092782	0.1250265	1.78E-06
A	G	0.02	-0.9186723	0.1809943	6.86E-07
C	T	0.16	-0.3303827	0.07197135	6.45E-06
T	G	0.02	0.8409577	0.1718797	1.63E-06
AG	A	0.02	0.9361528	0.1983958	3.63E-06
G	A	0.2	0.3260004	0.06666031	1.65E-06
G	C	0.2	0.3294261	0.06597215	1.02E-06
A	C	0.02	0.9028469	0.2006182	9.59E-06
G	A	0.01	1.177862	0.2562538	6.28E-06
T	G	0.11	0.3920036	0.08274914	3.33E-06
C	CTTAT	0.1	-0.447863	0.09701136	5.94E-06

G	C	0.4	-0.3021082	0.0600641	8.98E-07
C	G	0.4	-0.2962279	0.06007245	1.42E-06
T	TG	0.4	-0.2896746	0.06011496	2.39E-06
T	C	0.4	-0.2885492	0.0598289	2.35E-06
C	T	0.41	-0.2761091	0.06029157	7.00E-06
A	G	0.02	-0.9040753	0.1940038	4.90E-06
C	G	0.23	0.3061617	0.06689596	7.09E-06
G	A	0.23	0.3011627	0.06689248	9.82E-06
T	C	0.07	0.4753617	0.1030832	6.08E-06
AGT	A	0.03	0.8575426	0.1723774	1.16E-06
CCT	C	0.03	0.8056271	0.1773013	8.19E-06
AT	A	0.03	0.8056271	0.1773013	8.19E-06
A	G	0.08	-0.4991778	0.1066743	4.49E-06
G	A	0.06	-0.5395181	0.1189404	8.47E-06
A	G	0.1	-0.4561069	0.09889996	6.07E-06
T	A	0.08	-0.5509907	0.1054111	3.49E-07
A	G	0.19	0.3285576	0.06847531	2.63E-06
G	T	0.19	0.3128606	0.06843556	7.25E-06
C	G	0.14	-0.3682599	0.08038431	6.95E-06
C	A	0.14	-0.3651171	0.08046038	8.40E-06
C	T	0.14	-0.3651171	0.08046038	8.40E-06
C	T	0.14	-0.366339	0.08057958	8.10E-06
C	T	0.14	-0.366339	0.08057958	8.10E-06
T	A	0.05	0.5959435	0.1230732	2.15E-06
C	T	0.2	0.3300755	0.07143053	5.83E-06
GCAA	G	0.2	0.3254074	0.07147334	7.87E-06
A	G	0.2	0.3360018	0.07093739	3.47E-06
T	C	0.2	0.328412	0.0714219	6.45E-06
G	A	0.2	0.3300755	0.07143053	5.83E-06
C	T	0.2	0.328412	0.0714219	6.45E-06
G	A	0.2	0.328412	0.0714219	6.45E-06
C	T	0.2	0.3417371	0.07244177	3.79E-06
T	C	0.2	0.328412	0.0714219	6.45E-06
G	T	0.2	0.328412	0.0714219	6.45E-06
T	A	0.2	0.328412	0.0714219	6.45E-06
C	A	0.2	0.3274742	0.07147016	6.92E-06
C	T	0.2	0.328412	0.0714219	6.45E-06
T	C	0.2	0.328412	0.0714219	6.45E-06
G	A	0.2	0.328412	0.0714219	6.45E-06
A	G	0.2	0.3343624	0.07092999	3.85E-06
C	A	0.2	0.328412	0.0714219	6.45E-06
C	T	0.2	0.328412	0.0714219	6.45E-06
A	T	0.2	0.328412	0.0714219	6.45E-06
A	G	0.2	0.328412	0.0714219	6.45E-06
C	T	0.2	0.3227592	0.0715257	9.39E-06
A	G	0.49	-0.2468384	0.0543734	8.34E-06
A	G	0.49	-0.245584	0.05451032	9.69E-06
CT	C	0.16	-0.3909313	0.08011197	1.81E-06
G	A	0.04	-0.6935516	0.1351755	5.56E-07
C	T	0.02	-0.8907193	0.185764	2.67E-06

A	G	0.29	-0.3025366	0.06205275	1.84E-06
C	G	0.29	-0.2843623	0.06190523	6.58E-06
A	T	0.29	-0.2863825	0.06172058	5.36E-06
T	A	0.33	0.3015938	0.0592628	6.78E-07
G	A	0.33	0.2858187	0.05928646	2.37E-06
T	C	0.34	0.2800066	0.05889913	3.21E-06
C	T	0.05	0.6485431	0.1335	2.00E-06
C	T	0.49	-0.2848225	0.05585777	6.46E-07
AAG	A	0.49	-0.2754145	0.05604662	1.54E-06
G	A	0.49	-0.2842217	0.05575425	6.50E-07
G	T	0.49	-0.2842217	0.05575425	6.50E-07
A	C	0.49	-0.2800034	0.05571184	9.14E-07
T	C	0.49	-0.2839595	0.05589103	7.06E-07
T	G	0.49	-0.2827581	0.05593447	7.96E-07
C	T	0.49	-0.2842217	0.05575425	6.50E-07
G	A	0.49	-0.2842217	0.05575425	6.50E-07
T	C	0.49	-0.2822508	0.05586351	8.06E-07
G	A	0.49	-0.2822508	0.05586351	8.06E-07
A	T	0.49	-0.2822508	0.05586351	8.06E-07
T	C	0.49	-0.2822508	0.05586351	8.06E-07
A	G	0.49	-0.2828645	0.05596935	8.01E-07
G	A	0.49	-0.2828645	0.05596935	8.01E-07
A	G	0.49	-0.2822508	0.05586351	8.06E-07
T	C	0.49	-0.2828645	0.05596935	8.01E-07
T	C	0.49	-0.2828645	0.05596935	8.01E-07
G	A	0.49	-0.2837703	0.05535878	5.68E-07
A	C	0.49	-0.2797375	0.0556951	9.28E-07
C	T	0.49	-0.2813127	0.05578558	8.44E-07
A	T	0.49	-0.2793703	0.05578432	9.94E-07
G	A	0.49	-0.2828645	0.05596935	8.01E-07
G	T	0.47	-0.27949	0.05486346	6.61E-07
C	T	0.49	-0.2640251	0.0557527	3.49E-06
C	T	0.49	-0.2804857	0.05581021	9.15E-07
G	A	0.49	-0.2814912	0.05588595	8.68E-07
G	A	0.49	-0.280418	0.05578751	9.11E-07
T	C	0.49	-0.2579737	0.05587477	5.93E-06
T	G	0.49	-0.2710825	0.05600263	2.16E-06
A	G	0.49	-0.2667639	0.05588937	2.95E-06
T	C	0.48	-0.2525081	0.05574986	8.72E-06
A	G	0.49	-0.2563839	0.05595587	6.93E-06
T	G	0.49	-0.2852987	0.05603306	6.70E-07
C	G	0.48	-0.2898416	0.05543788	3.47E-07
G	C	0.49	-0.2770069	0.05599722	1.32E-06
G	C	0.44	-0.267473	0.05349975	1.03E-06
C	T	0.45	-0.2712433	0.05450607	1.15E-06
T	C	0.46	-0.2644053	0.05480851	2.33E-06
A	T	0.47	-0.2916789	0.05503144	2.45E-07
G	T	0.43	-0.2636497	0.05503563	2.72E-06
C	T	0.44	-0.2918189	0.05546504	2.96E-07

A	G	0.42	-0.2775298	0.05589651	1.22E-06
A	G	0.42	-0.279886	0.05589288	9.97E-07
C	T	0.42	-0.2779494	0.05598541	1.22E-06
G	A	0.46	-0.2940982	0.05591544	2.98E-07
G	A	0.42	-0.2843301	0.05594983	7.01E-07
G	C	0.42	-0.2819884	0.05594026	8.52E-07
G	A	0.39	-0.2946663	0.05592535	2.85E-07
G	A	0.39	-0.296411	0.05603789	2.58E-07
A	T	0.39	-0.2746187	0.0554619	1.30E-06
A	G	0.47	-0.310547	0.05617402	7.88E-08
C	T	0.42	-0.2851517	0.05568934	5.84E-07
G	A	0.42	-0.2828361	0.05552689	6.63E-07
A	G	0.42	-0.2855894	0.055777	5.84E-07
G	A	0.38	-0.2995191	0.05574199	1.71E-07
A	C	0.42	-0.2855894	0.055777	5.84E-07
G	A	0.34	0.2763456	0.05720599	2.26E-06
G	T	0.45	-0.2747702	0.05326999	4.87E-07
C	T	0.38	-0.3024969	0.05547243	1.15E-07
T	A	0.43	-0.3120541	0.05533497	4.48E-08
T	A	0.43	-0.3192022	0.05527594	2.23E-08
G	T	0.43	-0.3181423	0.05525317	2.44E-08
G	A	0.38	-0.3024969	0.05547243	1.15E-07
G	A	0.42	-0.2787773	0.05535951	8.73E-07
A	AAATC	0.41	-0.2663198	0.05624044	3.49E-06
C	T	0.43	-0.3174746	0.05508275	2.36E-08
T	A	0.44	-0.3170361	0.0552449	2.69E-08
C	A	0.43	-0.3129852	0.05523413	3.90E-08
C	T	0.43	-0.3146337	0.05511808	3.15E-08
C	T	0.44	-0.3186953	0.05534041	2.42E-08
C	T	0.43	-0.32328	0.0550815	1.36E-08
G	T	0.38	-0.3024969	0.05547243	1.15E-07
C	A	0.43	-0.3135483	0.0553031	3.84E-08
A	T	0.44	-0.3186953	0.05534041	2.42E-08
C	A	0.45	-0.3171835	0.05470935	1.98E-08
C	A	0.44	-0.3170361	0.0552449	2.69E-08
A	T	0.44	-0.3186953	0.05534041	2.42E-08
G	A	0.44	-0.3186953	0.05534041	2.42E-08
A	G	0.43	-0.2979447	0.05546383	1.72E-07
T	G	0.38	-0.2901382	0.05543843	3.39E-07
G	A	0.43	-0.3157756	0.05527573	3.08E-08
T	C	0.38	-0.3028449	0.05554678	1.15E-07
G	A	0.45	-0.3178215	0.05480218	1.96E-08
T	G	0.43	-0.3188683	0.05517436	2.18E-08
G	GA	0.43	-0.3013563	0.05563109	1.37E-07
C	A	0.45	-0.3171835	0.05470935	1.98E-08
T	A	0.44	-0.3186953	0.05534041	2.42E-08
C	T	0.43	-0.3179193	0.05518059	2.39E-08
C	T	0.43	-0.3181423	0.05525317	2.44E-08
C	T	0.4	-0.2955425	0.05558499	2.25E-07
G	A	0.44	-0.3170361	0.0552449	2.69E-08

TTTC	T	0.43	-0.3076811	0.0553771	6.84E-08
G	T	0.45	-0.3264304	0.05454236	7.39E-09
G	A	0.43	-0.3181423	0.05525317	2.44E-08
G	C	0.44	-0.3186953	0.05534041	2.42E-08
T	C	0.43	-0.3170133	0.05529506	2.77E-08
A	C	0.43	-0.3194161	0.05518474	2.08E-08
C	T	0.43	-0.3092053	0.055467	6.23E-08
G	A	0.42	-0.3188222	0.05484028	1.82E-08
A	G	0.43	-0.2769347	0.05419169	6.13E-07
A	G	0.43	-0.3133883	0.05525798	3.80E-08
G	A	0.45	-0.3124501	0.05470879	3.10E-08
T	G	0.43	-0.2893956	0.05436132	2.18E-07
G	A	0.43	-0.3133883	0.05525798	3.80E-08
G	T	0.43	-0.3139176	0.05534453	3.79E-08
T	C	0.43	-0.2963414	0.05436168	1.16E-07
T	C	0.43	-0.2957251	0.05425796	1.16E-07
G	A	0.43	-0.3133883	0.05525798	3.80E-08
A	G	0.38	-0.2978965	0.05548822	1.75E-07
T	C	0.43	-0.3139176	0.05534453	3.79E-08
T	G	0.45	-0.314783	0.05469558	2.47E-08
TC	T	0.4	-0.2603666	0.05499797	3.51E-06
G	A	0.45	-0.3151884	0.05442476	2.05E-08
T	C	0.43	-0.3080549	0.05511502	5.78E-08
T	G	0.43	-0.3120811	0.05497972	3.71E-08
TATA	T	0.43	-0.3039169	0.05507888	8.30E-08
T	C	0.43	-0.3120811	0.05497972	3.71E-08
A	G	0.43	-0.3055231	0.05509521	7.23E-08
A	G	0.43	-0.3094976	0.0549343	4.61E-08
TC	T	0.43	-0.3064425	0.05509865	6.65E-08
T	C	0.45	-0.3111729	0.05443814	3.02E-08
T	A	0.38	-0.2968224	0.05521469	1.69E-07
A	G	0.43	-0.3120811	0.05497972	3.71E-08
C	T	0.43	-0.306986	0.05486121	5.60E-08
G	T	0.43	-0.3120811	0.05497972	3.71E-08
T	A	0.45	-0.3117806	0.05452932	3.00E-08
A	G	0.38	-0.2971491	0.05528773	1.70E-07
A	G	0.45	-0.310288	0.05444564	3.30E-08
A	T	0.44	-0.3109854	0.05497101	4.09E-08
A	G	0.45	-0.3111376	0.05448565	3.11E-08
G	A	0.43	-0.3114276	0.05493496	3.85E-08
T	C	0.43	-0.3114276	0.05493496	3.85E-08
A	G	0.4	0.2677196	0.05568825	2.52E-06
A	G	0.4	0.2677196	0.05568825	2.52E-06
G	C	0.38	0.2707467	0.05543925	1.78E-06
C	G	0.4	0.2698971	0.05539793	1.87E-06
G	A	0.4	0.2741406	0.05543019	1.33E-06
G	C	0.38	0.2707467	0.05543925	1.78E-06
A	C	0.38	0.2707467	0.05543925	1.78E-06
G	A	0.43	-0.2935639	0.05494418	1.98E-07
T	A	0.27	0.2851091	0.06288063	8.54E-06

G	A	0.09	0.4547859	0.09583223	3.33E-06
C	T	0.09	0.4351153	0.09513096	7.18E-06
T	C	0.09	0.4351153	0.09513096	7.18E-06
T	A	0.04	-0.634249	0.1393681	7.94E-06
G	C	0.04	0.6313664	0.1399606	9.45E-06
ACTCTCTCT	A	0.01	-1.224722	0.2626371	4.83E-06
A	C	0.24	-0.2866487	0.0630565	8.11E-06
G	A	0.25	-0.2836302	0.06271187	8.98E-06
A	T	0.03	-0.7672124	0.1616314	3.32E-06
TGCAGA	T	0.13	0.3986865	0.08198184	1.95E-06
C	A	0.14	0.3984418	0.08083837	1.44E-06
A	G	0.13	0.3834146	0.08199345	4.56E-06
C	G	0.13	0.3858925	0.08185455	3.84E-06
T	A	0.14	0.3902787	0.08123014	2.55E-06
C	G	0.13	0.3858925	0.08185455	3.84E-06
A	G	0.13	0.3937754	0.08202724	2.60E-06
A	G	0.13	0.3858925	0.08185455	3.84E-06
A	G	0.13	0.3858925	0.08185455	3.84E-06
C	T	0.14	0.3747681	0.07753881	2.24E-06
C	A	0.13	0.3858925	0.08185455	3.84E-06
G	A	0.13	0.3858925	0.08185455	3.84E-06
T	C	0.13	0.3858925	0.08185455	3.84E-06
A	G	0.14	0.3938249	0.08159391	2.31E-06
G	T	0.13	0.3858925	0.08185455	3.84E-06
C	G	0.13	0.3858925	0.08185455	3.84E-06
G	T	0.13	0.3858925	0.08185455	3.84E-06
C	G	0.13	0.3868331	0.08194209	3.73E-06
T	C	0.13	0.3858925	0.08185455	3.84E-06
C	T	0.14	0.3716147	0.08178944	8.20E-06
G	A	0.13	0.3868512	0.0818951	3.68E-06
G	C	0.13	0.3858925	0.08185455	3.84E-06
C	CAA	0.13	0.3844039	0.08426916	7.57E-06
G	T	0.13	0.3858925	0.08185455	3.84E-06
A	G	0.13	0.3858925	0.08185455	3.84E-06
A	G	0.13	0.3858925	0.08185455	3.84E-06
TAGCATT CATATAACA	T	0.13	0.3867689	0.08242839	4.24E-06
C	T	0.13	0.3858925	0.08185455	3.84E-06
TG	T	0.13	0.3793878	0.08279683	6.92E-06
T	C	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
G	A	0.12	0.3877001	0.0853253	8.19E-06
T	C	0.12	0.3877001	0.0853253	8.19E-06
T	G	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
C	T	0.12	0.3877001	0.0853253	8.19E-06
T	C	0.12	0.3877001	0.0853253	8.19E-06
T	C	0.12	0.3877001	0.0853253	8.19E-06

G	A	0.12	0.4023937	0.0855175	4.00E-06
C	T	0.03	0.7768818	0.1684896	6.09E-06
A	G	0.41	-0.2433341	0.05335661	7.61E-06
A	T	0.02	0.8764366	0.1829607	2.72E-06
T	G	0.03	0.8421753	0.178048	3.58E-06
C	T	0.03	0.8421753	0.178048	3.58E-06
C	CAAATAAAT	0.06	-0.5620924	0.1238276	8.35E-06
A	G	0.19	0.3277777	0.07061506	5.31E-06
C	T	0.1	0.4215814	0.09326005	9.06E-06
A	CCCTGGCCTGGCTGC	0.01	-1.221711	0.2520574	2.10E-06
A	C	0.01	-1.29863	0.2689703	2.29E-06
T	C	0.01	-1.082817	0.2388022	8.53E-06
C	G	0.01	-1.18695	0.2568661	5.83E-06
C	T	0.02	-0.9689938	0.2077506	4.81E-06
C	T	0.25	-0.3179503	0.06428751	1.33E-06
T	G	0.02	0.8252794	0.1782455	5.60E-06
G	GT	0.04	-0.6263626	0.1390871	9.77E-06
C	T	0.05	-0.617705	0.132383	4.77E-06
A	ATG	0.05	-0.5966187	0.1258529	3.41E-06
G	GA	0.03	-0.7615952	0.154192	1.37E-06
A	G	0.04	0.6766727	0.1376678	1.53E-06
T	C	0.04	0.6766727	0.1376678	1.53E-06
G	A	0.01	1.294739	0.2652207	1.79E-06
G	T	0.25	0.2994135	0.06583459	8.04E-06
T	C	0.49	0.1197471	0.02633497	7.81E-06
A	T	0.25	0.1310841	0.0291513	9.74E-06
C	T	0.23	-0.1423474	0.03146138	8.62E-06
T	TGG	0.25	-0.1498582	0.03292086	7.64E-06
C	T	0.4	0.1179625	0.02555864	5.77E-06
T	G	0.39	0.1223487	0.02645744	5.54E-06
G	A	0.13	-0.1807325	0.0381244	3.28E-06
A	G	0.13	-0.1742986	0.03817426	7.19E-06
G	C	0.11	-0.2024817	0.04270039	3.26E-06
CA	C	0.09	-0.2184397	0.04604635	3.23E-06
ATAAAATAAAG	A	0.5	-0.1100438	0.02442636	9.39E-06
T	C	0.47	0.1140936	0.02533961	9.49E-06
C	G	0.47	0.115587	0.02536124	7.45E-06
C	T	0.02	0.4898685	0.1018982	2.42E-06
G	A	0.15	0.1680291	0.03635451	5.60E-06
C	G	0.14	0.1671102	0.0369722	8.80E-06
A	G	0.09	0.2207792	0.04821527	6.78E-06
AT	A	0.01	0.5381245	0.117826	7.15E-06
G	A	0.12	0.1893579	0.04055954	4.54E-06
G	T	0.09	-0.2120924	0.04481296	3.40E-06
A	AACACACAC	0.25	0.1437244	0.03177149	8.65E-06
T	C	0.36	-0.1283889	0.02761238	4.95E-06
C	T	0.36	-0.1425424	0.02783021	5.49E-07
A	AAAAC	0.45	-0.1307675	0.02613989	9.71E-07
C	T	0.19	0.1641408	0.03295801	1.08E-06
C	T	0.19	0.1641408	0.03295801	1.08E-06

G	T	0.19	0.160415	0.03288039	1.74E-06
A	G	0.22	0.1480252	0.03133607	3.54E-06
A	G	0.19	0.1542398	0.03299577	4.42E-06
A	G	0.22	0.1443114	0.03136544	6.15E-06
T	G	0.22	0.1450261	0.03137434	5.59E-06
C	T	0.19	0.1552283	0.03300976	3.90E-06
A	G	0.19	0.1519904	0.0329954	6.00E-06
T	C	0.22	0.1445421	0.03136168	5.94E-06
C	A	0.22	0.1482419	0.03135005	3.46E-06
T	G	0.19	0.1567442	0.03299399	3.13E-06
G	A	0.19	0.1626498	0.03267035	1.09E-06
A	G	0.19	0.1636688	0.03283857	1.06E-06
C	T	0.18	0.1516034	0.03371659	9.75E-06
G	A	0.19	0.1637871	0.03299308	1.16E-06
T	C	0.22	0.1483634	0.03130266	3.29E-06
G	C	0.19	0.160353	0.03282638	1.69E-06
C	T	0.19	0.1587659	0.03296184	2.32E-06
T	G	0.2	0.1632443	0.03280602	1.10E-06
G	A	0.22	0.1437837	0.03132129	6.44E-06
G	C	0.19	0.1563141	0.03295918	3.25E-06
G	A	0.19	0.1655646	0.03280487	7.87E-07
T	C	0.15	0.1647973	0.03656947	9.34E-06
T	C	0.19	0.1545496	0.03312322	4.60E-06
T	C	0.2	0.1617718	0.03288983	1.44E-06
C	G	0.2	0.1642553	0.03288154	1.01E-06
C	T	0.19	0.154069	0.03322983	5.25E-06
C	T	0.2	0.1594835	0.03292948	2.05E-06
G	A	0.2	0.1617718	0.03288983	1.44E-06
T	G	0.19	0.1581658	0.03307374	2.71E-06
C	T	0.19	0.1562279	0.0331966	3.84E-06
T	G	0.2	0.1528228	0.032418	3.70E-06
G	A	0.2	0.159949	0.03289628	1.88E-06
G	A	0.2	0.1488983	0.03262307	7.24E-06
A	G	0.19	0.154069	0.03322983	5.25E-06
G	A	0.19	0.154069	0.03322983	5.25E-06
C	A	0.2	0.1617718	0.03288983	1.44E-06
C	G	0.2	0.1617718	0.03288983	1.44E-06
C	T	0.2	0.1574419	0.03289496	2.66E-06
T	TG	0.2	0.1557612	0.03241356	2.44E-06
T	G	0.2	0.160285	0.03269289	1.55E-06
G	A	0.21	0.1405715	0.0301685	4.73E-06
A	G	0.2	0.1577859	0.03271546	2.25E-06
T	C	0.2	0.1499113	0.03272846	6.74E-06
A	G	0.42	-0.1236874	0.02687979	6.13E-06
T	C	0.42	-0.1231437	0.02681956	6.41E-06
G	C	0.4	-0.1258895	0.02701332	4.72E-06
T	C	0.4	-0.1220027	0.02701869	8.97E-06
T	C	0.43	-0.1199388	0.02663347	9.46E-06
G	C	0.4	-0.1280839	0.02697727	3.17E-06
A	G	0.4	-0.1280839	0.02697727	3.17E-06

T	G	0.4	-0.1280839	0.02697727	3.17E-06
A	G	0.39	-0.1231465	0.02670479	5.87E-06
AT	A	0.42	-0.1219217	0.02660121	6.65E-06
T	G	0.4	-0.1264268	0.0270165	4.32E-06
A	C	0.4	-0.1264268	0.0270165	4.32E-06
A	G	0.4	-0.1264268	0.0270165	4.32E-06
C	G	0.39	-0.1267979	0.02653826	2.77E-06
A	G	0.4	-0.1234849	0.02708348	7.39E-06
C	G	0.19	0.1617507	0.03434688	3.78E-06
G	C	0.3	0.1355258	0.02992982	8.49E-06
C	T	0.17	0.170824	0.0350969	1.83E-06
A	C	0.46	0.1159679	0.02565484	8.78E-06
A	T	0.46	0.1193925	0.02582641	5.58E-06
A	G	0.46	0.1196266	0.02577302	5.13E-06
G	A	0.46	0.1168294	0.02578653	8.39E-06
G	A	0.42	0.1173414	0.0259112	8.47E-06
G	C	0.46	0.1179112	0.02580987	7.10E-06
C	T	0.02	0.3772528	0.08141102	5.31E-06
T	C	0.01	0.52302	0.1068472	1.61E-06
T	C	0.43	-0.1220761	0.02607875	4.30E-06
A	C	0.43	-0.1173548	0.02609641	9.73E-06
T	C	0.43	-0.1195778	0.02605207	6.46E-06
G	A	0.43	-0.1175489	0.02608715	9.35E-06
T	G	0.43	-0.1178378	0.02602695	8.51E-06
T	G	0.1	0.1923745	0.04152099	5.33E-06
A	G	0.47	0.1174308	0.0261188	9.77E-06
T	TTTTACATAGCA	0.39	-0.1254988	0.02585516	1.95E-06
C	T	0.01	0.545249	0.1193061	7.05E-06
GGATA	G	0.26	-0.1297062	0.02841656	7.23E-06
T	C	0.03	0.357658	0.07961897	9.94E-06
C	A	0.06	0.2371743	0.05276649	9.82E-06
C	T	0.06	0.2518033	0.05192984	2.00E-06
A	G	0.06	0.2526785	0.05196497	1.87E-06
ATGTG	A	0.05	0.2825577	0.05651632	9.85E-07
T	C	0.05	0.2782102	0.05688618	1.64E-06
G	A	0.05	0.2782102	0.05688618	1.64E-06
C	T	0.05	0.2665843	0.05769868	5.64E-06
G	T	0.05	0.2665843	0.05769868	5.64E-06
C	T	0.05	0.2665843	0.05769868	5.64E-06
G	C	0.05	0.2665843	0.05769868	5.64E-06
C	T	0.03	0.347836	0.07465141	4.73E-06
G	A	0.01	0.4723212	0.10016	3.67E-06
C	G	0.01	0.4723212	0.10016	3.67E-06
GGGC	G	0.03	0.3218579	0.06698516	2.44E-06
G	A	0.24	-0.1378012	0.02877695	2.63E-06
T	C	0.28	-0.1269301	0.02685909	3.51E-06
G	T	0.25	-0.1391435	0.02856162	1.80E-06
T	A	0.25	-0.139704	0.02847177	1.52E-06
TG	T	0.29	-0.1226636	0.0268473	7.09E-06
A	G	0.36	-0.1144365	0.02523697	8.25E-06

G	T	0.25	-0.1371721	0.02858151	2.51E-06
G	A	0.25	-0.1383972	0.02857351	2.05E-06
G	A	0.25	-0.139704	0.02847177	1.52E-06
G	A	0.41	-0.1177965	0.02493057	3.52E-06
T	C	0.42	-0.1142215	0.02494432	6.78E-06
A	T	0.42	-0.1125396	0.02497576	9.35E-06
G	A	0.3	-0.1221205	0.02692646	8.22E-06
G	A	0.31	-0.1300157	0.02705262	2.43E-06
C	T	0.31	-0.1257288	0.02707288	5.07E-06
A	G	0.44	-0.1162382	0.02569824	8.67E-06
T	A	0.15	0.166499	0.03455023	2.29E-06
G	A	0.17	0.1484992	0.03302418	9.74E-06
CT	C	0.13	0.180962	0.03805203	3.06E-06
C	A	0.02	0.4206419	0.08622229	1.74E-06
AGCCTTTT	A	0.02	0.4168012	0.08245447	7.57E-07
A	C	0.11	0.1785102	0.03893512	6.61E-06
T	C	0.11	0.1785102	0.03893512	6.61E-06
A	C	0.3	0.1254226	0.02605149	2.34E-06
C	T	0.15	-0.1588568	0.03506029	8.38E-06
G	A	0.14	-0.1763107	0.03710441	3.12E-06
A	C	0.16	-0.1720867	0.03447735	1.02E-06
A	C	0.15	-0.164275	0.03549594	5.45E-06
C	A	0.01	0.5373367	0.1166545	6.01E-06
T	C	0.04	0.3328754	0.0647054	4.92E-07
A	G	0.04	0.2961852	0.06340967	4.50E-06
C	T	0.03	0.3480419	0.07669119	8.12E-06
C	T	0.04	0.2927401	0.0630499	5.10E-06
G	A	0.29	-0.1218074	0.02701794	9.26E-06
C	A	0.36	-0.1187847	0.02615554	8.00E-06
G	T	0.36	-0.1191575	0.02632669	8.56E-06
T	C	0.35	-0.1230827	0.02631634	4.37E-06
T	G	0.37	-0.1207875	0.02574735	4.10E-06
AGGAAGGAAGGAAGC	G	0.02	0.4589456	0.1019115	9.46E-06
C	G	0.38	-0.1162565	0.02563778	8.25E-06
G	A	0.37	-0.1168229	0.02573995	8.11E-06
A	G	0.49	0.1276573	0.02471711	4.46E-07
T	A	0.48	0.1148188	0.02441513	3.89E-06
T	G	0.48	0.1195532	0.02439411	1.57E-06
G	A	0.49	-0.1090031	0.02409686	8.66E-06
A	G	0.47	0.1181604	0.02472435	2.75E-06
A	C	0.47	0.116364	0.02474548	3.90E-06
G	C	0.47	0.1191949	0.02464548	2.11E-06
TTCTCTCTC	T	0.02	0.4308399	0.08634518	1.03E-06
CA	C	0.02	0.3532672	0.07809212	8.65E-06
A	G	0.12	0.1733247	0.03849046	9.47E-06
A	ATTATTTAT	0.08	0.2279056	0.04649228	1.56E-06
A	G	0.12	0.1786619	0.03880996	6.08E-06
G	GTC	0.12	0.1837782	0.03835622	2.60E-06
G	T	0.12	0.1762883	0.03835202	6.27E-06
G	A	0.12	0.1762883	0.03835202	6.27E-06

A	G	0.04	0.3174895	0.06627156	2.61E-06
A	G	0.22	0.1362648	0.02966739	6.37E-06
T	G	0.22	0.1351717	0.02969541	7.64E-06
T	C	0.22	0.1336253	0.02968411	9.54E-06
C	A	0.22	0.1352174	0.02968921	7.56E-06
T	C	0.22	0.1370801	0.02963423	5.51E-06
G	A	0.22	0.1380396	0.02961651	4.70E-06
T	C	0.19	0.144438	0.03135386	5.99E-06
C	G	0.2	0.1414846	0.03120933	8.29E-06
C	T	0.2	0.1414359	0.03121764	8.39E-06
C	A	0.22	0.137767	0.02983882	5.72E-06
T	C	0.23	0.1365138	0.02984681	6.94E-06
C	T	0.29	0.1246024	0.02739605	7.77E-06
A	T	0.23	0.1342649	0.02973341	8.97E-06
T	TG	0.2	0.1382936	0.03072821	9.58E-06
T	G	0.2	0.1411202	0.03100871	7.67E-06
G	A	0.21	0.1303989	0.0286223	7.51E-06
T	C	0.3	0.1289917	0.02653707	1.89E-06
A	G	0.23	0.1329342	0.02954444	9.62E-06
A	G	0.2	0.1402968	0.03099418	8.55E-06
A	T	0.22	0.1407474	0.0296033	3.08E-06
T	C	0.2	0.1430379	0.0309497	5.61E-06
C	G	0.02	0.4608502	0.1002919	6.31E-06
G	T	0.02	0.4608502	0.1002919	6.31E-06
C	G	0.39	0.1132308	0.02516064	9.59E-06
G	T	0.37	0.1147281	0.02413792	3.10E-06
T	C	0.3	0.1203	0.02579119	4.63E-06
G	C	0.3	0.1216368	0.02581226	3.73E-06
A	G	0.39	0.1106049	0.02457352	9.56E-06
C	G	0.04	0.3071505	0.06366904	2.24E-06
C	T	0.02	0.4855077	0.1022407	3.16E-06
G	C	0.03	0.3387782	0.07500826	8.93E-06
C	T	0.03	0.3395584	0.0749105	8.31E-06
C	T	0.03	0.3478927	0.0740646	3.99E-06
T	C	0.23	0.1307186	0.02906015	9.68E-06
GCTAT	G	0.2	0.1279464	0.02841932	9.51E-06
C	A	0.02	-0.4014952	0.08579728	4.32E-06
G	A	0.02	-0.3752066	0.08355112	1.00E-05
T	G	0.48	-0.102681	0.02273532	8.94E-06
A	C	0.44	-0.1034919	0.02292216	8.99E-06
T	C	0.1	-0.1748427	0.03820663	6.86E-06
C	T	0.09	-0.1752552	0.03897991	9.77E-06
T	C	0.09	-0.1752552	0.03897991	9.77E-06
G	A	0.1	-0.1761845	0.03877388	7.92E-06
GTA	G	0.01	-0.4953535	0.102339	2.08E-06
T	TTTC	0.02	-0.4028669	0.08038026	9.29E-07
C	T	0.46	-0.1026558	0.02268435	8.59E-06
G	A	0.46	-0.1026558	0.02268435	8.59E-06
T	A	0.46	-0.1035503	0.02265802	7.05E-06
C	G	0.15	-0.1550287	0.03100973	9.86E-07

C	T	0.2	-0.1266711	0.02766654	6.79E-06
A	C	0.21	-0.127072	0.02697876	3.77E-06
A	G	0.29	-0.1184325	0.0243006	1.78E-06
G	C	0.12	-0.1809467	0.03594256	8.35E-07
G	A	0.13	-0.1597863	0.03444943	5.21E-06
T	A	0.13	-0.1682276	0.03496161	2.37E-06
G	A	0.12	-0.1616424	0.03508619	5.99E-06
T	G	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
T	C	0.12	-0.1660265	0.03543423	4.21E-06
A	G	0.13	-0.163761	0.03468436	3.58E-06
G	A	0.12	-0.1591952	0.03508821	8.16E-06
C	T	0.13	-0.1643288	0.03475752	3.48E-06
G	C	0.13	-0.1643288	0.03475752	3.48E-06
T	G	0.12	-0.1660265	0.03543423	4.21E-06
T	G	0.12	-0.1582938	0.03504565	8.92E-06
T	A	0.15	-0.1387435	0.02912826	2.96E-06
A	G	0.13	-0.1517747	0.03240098	4.23E-06
A	G	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.13	-0.1614793	0.03400125	3.15E-06
A	G	0.13	-0.1635856	0.03470016	3.70E-06
C	G	0.12	-0.1591952	0.03508821	8.16E-06
T	G	0.12	-0.1591952	0.03508821	8.16E-06
G	A	0.12	-0.1591952	0.03508821	8.16E-06
A	C	0.12	-0.1660265	0.03543423	4.21E-06
A	G	0.12	-0.1660265	0.03543423	4.21E-06
C	G	0.13	-0.1648856	0.03467413	3.07E-06
A	G	0.13	-0.1681966	0.03443778	1.69E-06
A	C	0.12	-0.1707993	0.03498086	1.71E-06
A	G	0.12	-0.1702594	0.03502242	1.88E-06
T	C	0.13	-0.163761	0.03468436	3.58E-06
T	C	0.13	-0.1635856	0.03470016	3.70E-06
A	G	0.12	-0.1660265	0.03543423	4.21E-06
A	G	0.12	-0.1591952	0.03508821	8.16E-06
T	C	0.13	-0.164841	0.03444085	2.66E-06
A	G	0.13	-0.1514217	0.03335921	8.09E-06
T	G	0.13	-0.1554204	0.0334375	4.98E-06
A	T	0.13	-0.1615918	0.0328877	1.48E-06
T	C	0.12	-0.1602492	0.03554353	9.25E-06
C	A	0.12	-0.1591952	0.03508821	8.16E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.12	-0.1591952	0.03508821	8.16E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
G	A	0.12	-0.1591952	0.03508821	8.16E-06
G	A	0.12	-0.1660265	0.03543423	4.21E-06
T	C	0.13	-0.157317	0.03325348	3.43E-06
A	C	0.12	-0.160975	0.03509876	6.56E-06
G	A	0.12	-0.1591952	0.03508821	8.16E-06
T	C	0.13	-0.1513979	0.03298192	6.45E-06
G	A	0.12	-0.1660265	0.03543423	4.21E-06

T	C	0.12	-0.1704614	0.03500897	1.82E-06
G	A	0.12	-0.1634583	0.03538004	5.65E-06
A	T	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.12	-0.1623355	0.03547935	6.89E-06
A	G	0.12	-0.1660265	0.03543423	4.21E-06
T	G	0.12	-0.1660265	0.03543423	4.21E-06
A	T	0.12	-0.1660265	0.03543423	4.21E-06
G	C	0.13	-0.1662103	0.03449727	2.30E-06
A	G	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
C	T	0.13	-0.1635856	0.03470016	3.70E-06
C	T	0.12	-0.1660265	0.03543423	4.21E-06
G	A	0.15	-0.1475771	0.03235973	7.36E-06
C	T	0.15	-0.1475771	0.03235973	7.36E-06
A	G	0.23	-0.1268838	0.02700595	3.97E-06
C	T	0.02	-0.3605494	0.07687984	4.13E-06
T	C	0.02	-0.3759628	0.08098379	5.11E-06
A	G	0.03	-0.3099694	0.06452825	2.46E-06
T	TATGATATGATATATC	0.08	-0.1965685	0.04210645	4.55E-06
CT	C	0.02	-0.4175177	0.08798509	3.21E-06
G	A	0.02	-0.4364217	0.09299002	4.07E-06
G	A	0.08	-0.195137	0.04337615	9.66E-06
A	G	0.07	-0.2092575	0.04593738	7.53E-06
G	A	0.08	-0.1962239	0.04287424	6.85E-06
AAC	A	0.07	-0.2009286	0.04298842	4.43E-06
A	G	0.06	-0.2547496	0.04876556	3.35E-07
A	G	0.03	-0.3097199	0.0682343	8.09E-06
TA	T	0.02	-0.4071621	0.07995299	6.33E-07
AAGAG	A	0.04	-0.2793764	0.06153439	8.05E-06
G	GCACACA	0.02	-0.4512484	0.09803271	6.09E-06
A	ATGTG	0.02	-0.4214269	0.08557323	1.40E-06
G	A	0.07	-0.2022153	0.0424541	2.96E-06
G	A	0.02	-0.4111613	0.08506101	2.14E-06
AT	A	0.36	0.1048331	0.02242699	4.43E-06
C	T	0.02	-0.358031	0.07494257	2.77E-06
G	A	0.02	-0.3435344	0.07454532	5.95E-06
T	C	0.03	-0.3107162	0.06609606	3.93E-06
A	G	0.03	-0.317254	0.06951406	7.25E-06
T	A	0.03	-0.3156096	0.06791082	5.00E-06
GAC	G	0.03	-0.32516	0.06794709	2.67E-06
TG	T	0.03	-0.32516	0.06794709	2.67E-06
G	A	0.03	-0.3156096	0.06791082	5.00E-06
G	A	0.05	-0.2533551	0.05365932	3.58E-06
A	G	0.03	-0.3087736	0.06810106	8.27E-06
G	GCATTTTTT	0.03	-0.3290913	0.06385417	4.71E-07
G	A	0.01	-0.4819739	0.09794602	1.43E-06
A	G	0.02	-0.3862559	0.08183311	3.60E-06
T	TA	0.01	-0.444276	0.0971445	6.95E-06
G	GTT	0.02	-0.4075472	0.08717438	4.41E-06

T	C	0.03	-0.3024619	0.06690225	8.76E-06
A	C	0.03	-0.3024619	0.06690225	8.76E-06
G	T	0.03	-0.3024619	0.06690225	8.76E-06
G	A	0.03	-0.3136738	0.06776077	5.42E-06
A	G	0.19	0.1417889	0.02876144	1.37E-06
A	G	0.08	-0.189976	0.0416754	7.42E-06
G	A	0.4	0.1031121	0.0226747	7.79E-06
C	T	0.04	-0.3210415	0.05872186	9.98E-08
A	G	0.35	0.1209288	0.02335168	4.17E-07
G	A	0.35	0.1040049	0.02263713	6.33E-06
C	G	0.01	-0.5086557	0.1043937	1.79E-06
T	C	0.03	-0.3296108	0.07325173	9.61E-06
T	C	0.03	-0.3296108	0.07325173	9.61E-06
ACT	A	0.02	-0.3464403	0.0741323	4.45E-06
A	G	0.29	0.115073	0.02523175	7.35E-06
A	G	0.29	0.115073	0.02523175	7.35E-06
C	T	0.29	0.1158842	0.02529777	6.73E-06
A	G	0.32	0.1095299	0.02389471	6.64E-06
C	T	0.33	0.1075082	0.02372883	8.39E-06
C	CAGTA	0.33	0.1080589	0.02378888	7.97E-06
A	G	0.33	0.1119585	0.02384973	4.05E-06
C	A	0.33	0.1168448	0.02382196	1.54E-06
A	C	0.33	0.1121765	0.02405935	4.67E-06
A	G	0.33	0.1131904	0.02372884	2.87E-06
A	G	0.33	0.1074727	0.02382846	9.18E-06
CA	C	0.33	0.1105985	0.02421888	7.16E-06
A	C	0.32	0.1102833	0.0244539	9.20E-06
GA	G	0.35	0.1037305	0.02287106	8.22E-06
T	C	0.34	0.1062502	0.0235119	8.83E-06
G	A	0.34	0.1153417	0.02341564	1.39E-06
A	G	0.33	0.1074314	0.02384846	9.40E-06
A	G	0.33	0.1083115	0.0239024	8.37E-06
C	T	0.33	0.1100081	0.02374649	5.34E-06
G	A	0.03	-0.3245523	0.06890577	3.77E-06
A	G	0.09	-0.19061	0.03967243	2.45E-06
T	TGTGTGTGTGTGTGT	0.01	-0.4569288	0.09371124	1.76E-06
G	T	0.04	-0.2581293	0.05664513	7.47E-06
G	T	0.1	-0.169111	0.03619118	4.46E-06
A	C	0.11	-0.1645674	0.03641899	8.85E-06
C	G	0.06	-0.2483479	0.04799389	4.26E-07
A	G	0.02	-0.3666909	0.07421016	1.30E-06
C	T	0.02	-0.3546818	0.07637136	5.07E-06
T	A	0.02	-0.3568725	0.07633923	4.42E-06
A	G	0.03	-0.3271453	0.07181314	7.52E-06
G	A	0.03	-0.3271453	0.07181314	7.52E-06
A	G	0.03	-0.3271453	0.07181314	7.52E-06
G	C	0.02	-0.3546818	0.07637136	5.07E-06
G	C	0.45	-0.1026505	0.02265716	8.40E-06
A	G	0.08	-0.2064813	0.04268254	2.10E-06
T	TTCTTTC	0.07	-0.2137928	0.04582254	4.60E-06

C	T	0.06	0.2090419	0.04643691	9.53E-06
G	A	0.02	-0.4708029	0.09646371	1.72E-06
C	T	0.02	-0.4155672	0.08987807	5.56E-06
G	A	0.04	-0.3076653	0.06265845	1.50E-06
C	T	0.04	-0.3076653	0.06265845	1.50E-06
T	C	0.04	-0.3076653	0.06265845	1.50E-06
G	T	0.04	-0.2888308	0.06126116	3.69E-06
G	A	0.05	-0.2491375	0.055282	9.33E-06
A	G	0.05	-0.2491375	0.055282	9.33E-06
G	GT	0.08	-0.1923892	0.04088288	3.84E-06
A	T	0.08	-0.2089838	0.03992303	3.17E-07
C	G	0.08	-0.1931401	0.04009385	2.31E-06
A	G	0.1	-0.154353	0.03283559	3.93E-06
C	A	0.16	-0.1374278	0.02986229	6.12E-06
A	T	0.08	-0.1931401	0.04009385	2.31E-06
G	A	0.08	-0.1913222	0.04125733	5.23E-06
C	G	0.02	-0.4073804	0.0845907	2.32E-06
A	C	0.02	-0.4354011	0.09620287	8.57E-06
C	T	0.38	0.1020172	0.022572	8.81E-06
A	G	0.18	-0.1365511	0.03038679	9.87E-06
C	T	0.02	-0.4407994	0.09013295	1.64E-06
T	C	0.01	-0.5033595	0.103067	1.70E-06
C	T	0.06	-0.2206945	0.04821947	6.84E-06
G	C	0.09	-0.1860808	0.04030588	5.73E-06
C	T	0.09	-0.1875253	0.03968948	3.52E-06
C	A	0.14	-0.1645797	0.03253788	7.46E-07
C	G	0.14	-0.1625891	0.03257367	1.02E-06
G	A	0.14	-0.1585151	0.03263615	1.92E-06
G	A	0.14	-0.1608925	0.03267152	1.40E-06
G	T	0.05	-0.2475515	0.05436967	7.60E-06
A	G	0.02	-0.4163662	0.08833172	3.71E-06
G	A	0.02	-0.3735777	0.07610287	1.51E-06
A	GTTTTCTTTTGTCA	0.15	-0.1463523	0.032271	8.23E-06
G	A	0.03	-0.305621	0.06637631	6.06E-06
T	C	0.01	-0.5193307	0.1087324	2.79E-06
G	A	0.1	-0.1742692	0.03754161	5.12E-06
C	A	0.1	-0.1722033	0.03750493	6.41E-06
G	A	0.03	-0.3213956	0.06512964	1.34E-06
C	T	0.11	-0.1710756	0.03793702	9.21E-06
A	G	0.02	-0.3860806	0.08420903	6.61E-06
G	A	0.14	0.1656173	0.03603135	6.27E-06
G	T	0.14	0.1698944	0.03606865	3.76E-06
G	C	0.14	0.1637986	0.036006	7.73E-06
T	A	0.08	0.2310172	0.0490426	3.76E-06
T	C	0.29	0.1367857	0.03007517	7.77E-06
C	T	0.07	0.2462137	0.05337995	5.84E-06
C	G	0.07	0.2462137	0.05337995	5.84E-06
T	C	0.07	0.2462137	0.05337995	5.84E-06
T	C	0.07	0.2462137	0.05337995	5.84E-06
A	T	0.07	0.2462137	0.05337995	5.84E-06

T	C	0.07	0.2462137	0.05337995	5.84E-06
T	C	0.07	0.2462137	0.05337995	5.84E-06
C	CA	0.06	0.266815	0.0576521	5.45E-06
A	G	0.07	0.2462137	0.05337995	5.84E-06
A	G	0.07	0.2462137	0.05337995	5.84E-06
T	C	0.07	0.2462137	0.05337995	5.84E-06
G	C	0.07	0.2385913	0.05068392	3.81E-06
C	T	0.08	0.2197449	0.04840221	8.06E-06
C	A	0.08	0.2197449	0.04840221	8.06E-06
G	A	0.08	0.2197449	0.04840221	8.06E-06
A	G	0.08	0.2197449	0.04840221	8.06E-06
G	A	0.08	0.2197449	0.04840221	8.06E-06
C	A	0.08	0.2197449	0.04840221	8.06E-06
T	C	0.08	0.2256561	0.04853445	4.95E-06
C	T	0.08	0.2197449	0.04840221	8.06E-06
C	T	0.08	0.2197449	0.04840221	8.06E-06
A	C	0.08	0.2197449	0.04840221	8.06E-06
TTG	T	0.11	0.2037205	0.04258575	2.69E-06
A	G	0.02	0.4582787	0.09852851	4.91E-06
C	T	0.05	0.2656257	0.05841501	7.80E-06
G	T	0.03	0.3109845	0.06682354	4.86E-06
G	A	0.02	0.4695285	0.1018306	5.88E-06
A	G	0.39	0.1250389	0.02641229	3.38E-06
T	C	0.03	0.3733168	0.07422923	8.56E-07
C	T	0.03	0.3576708	0.07452634	2.51E-06
G	GTA	0.22	0.1431761	0.03151693	7.96E-06
A	G	0.04	0.3059901	0.06717815	7.54E-06
T	TAAAGAAAA	0.23	-0.150739	0.03162322	2.91E-06
T	G	0.22	0.1428447	0.03041057	3.99E-06
T	C	0.1	0.2001005	0.04449695	9.73E-06
GT	G	0.18	0.1535204	0.0341076	9.56E-06
A	C	0.21	0.147346	0.03226627	7.16E-06
A	G	0.22	0.165698	0.03228068	5.20E-07
TACACACACAC	T	0.1	0.2071562	0.04436441	4.53E-06
ATCT	A	0.02	0.4062263	0.08797519	5.71E-06
C	G	0.24	-0.1360434	0.0292887	5.05E-06
C	A	0.35	-0.1049661	0.02332252	9.57E-06
G	C	0.02	0.3930167	0.08144678	2.22E-06
T	G	0.05	0.2635274	0.05698816	5.54E-06
T	C	0.01	0.4841608	0.1068253	8.33E-06
G	A	0.09	-0.2225777	0.04500267	1.27E-06
T	C	0.04	0.281805	0.06226462	8.57E-06
T	C	0.01	0.4573798	0.1010065	8.48E-06
C	T	0.01	0.5394798	0.1165628	5.45E-06
C	T	0.01	0.5394798	0.1165628	5.45E-06
G	T	0.01	0.5394798	0.1165628	5.45E-06
T	C	0.27	0.1301559	0.02805735	5.19E-06
G	A	0.29	0.125485	0.0274617	7.07E-06
T	C	0.01	0.4833837	0.1063836	7.92E-06
T	A	0.01	0.4833837	0.1063836	7.92E-06

T	C	0.01	0.4833837	0.1063836	7.92E-06
CA	C	0.03	0.3479971	0.07176754	1.99E-06
T	C	0.46	0.1106585	0.02401634	5.97E-06
G	C	0.02	0.448376	0.09778289	6.59E-06
C	T	0.28	0.1217535	0.02690571	8.60E-06
TC	T	0.02	0.408277	0.08986167	7.94E-06
C	T	0.24	-0.1269295	0.02762955	6.34E-06
T	C	0.24	-0.1259053	0.02763047	7.48E-06
C	T	0.01	0.5144518	0.1072688	2.55E-06
A	G	0.01	0.5473242	0.1094105	9.72E-07
T	TTTTC	0.15	0.1555574	0.03413916	7.49E-06
C	G	0.45	-0.1073311	0.02366884	8.25E-06
A	G	0.43	-0.1075387	0.0236039	7.51E-06
A	G	0.43	-0.1075387	0.0236039	7.51E-06
A	AT	0.01	0.5615847	0.1196109	4.03E-06
C	T	0.14	-0.1651631	0.03538085	4.55E-06
TGAGAGAGAGAGA	T	0.11	0.1871625	0.03984938	4.00E-06
C	T	0.02	0.3969142	0.08702683	7.35E-06
T	C	0.06	0.2379992	0.04963802	2.56E-06
CTG	C	0.07	0.253782	0.04860451	3.39E-07
A	G	0.02	0.4536616	0.09813543	5.58E-06
G	A	0.02	0.4536616	0.09813543	5.58E-06
T	A	0.01	0.503161	0.1056036	2.94E-06
TC	T	0.01	0.503161	0.1056036	2.94E-06
G	A	0.04	0.2874376	0.06085404	3.55E-06
T	C	0.04	0.2776497	0.06043911	6.35E-06
A	G	0.15	0.1729352	0.0346111	1.00E-06
G	A	0.15	0.1620299	0.03495181	5.26E-06
G	A	0.02	0.4338254	0.09577414	8.43E-06
T	C	0.09	0.1887025	0.04181812	9.09E-06
A	C	0.02	0.4344375	0.09355985	5.09E-06
G	A	0.02	0.4032645	0.08908748	8.54E-06
C	T	0.02	0.3914715	0.0860937	7.81E-06
C	T	0.02	0.3914715	0.0860937	7.81E-06
G	C	0.02	0.3914715	0.0860937	7.81E-06
T	C	0.02	0.4490722	0.09720779	5.66E-06
G	A	0.05	0.2541138	0.0560352	8.24E-06
T	TCTACA	0.1	0.1733475	0.03832734	8.69E-06
T	C	0.01	0.4429608	0.09828936	9.32E-06
A	G	0.03	0.2911483	0.06444952	8.89E-06
A	AAGAAAAAGAAAG	0.02	0.428653	0.07905343	1.25E-07
A	AT	0.25	-0.1190388	0.02643293	9.46E-06
C	T	0.03	0.2902059	0.06462024	9.99E-06
G	A	0.05	0.2474303	0.05503871	9.79E-06
C	T	0.03	0.3109339	0.06765938	6.30E-06
T	C	0.12	-0.1731441	0.03513836	1.38E-06
C	T	0.01	0.4859283	0.09885171	1.46E-06
A	G	0.02	0.4440592	0.09111833	1.78E-06
C	T	0.01	0.5345394	0.1155054	5.46E-06
C	A	0.01	0.5345394	0.1155054	5.46E-06

G	C	0.07	0.210436	0.04582993	6.41E-06
T	C	0.08	0.198913	0.04389521	8.36E-06
GA	G	0.07	0.2315824	0.04623721	9.44E-07
C	G	0.01	0.4938573	0.1088477	8.16E-06
C	T	0.02	0.4551305	0.09617929	3.41E-06
T	C	0.02	0.4551305	0.09617929	3.41E-06
ATTGT	A	0.01	0.4682394	0.0981506	2.86E-06
C	T	0.01	0.4717354	0.1016359	5.13E-06
A	G	0.01	0.5178922	0.1064122	1.84E-06
G	A	0.01	0.4749056	0.1038168	6.92E-06
G	A	0.01	0.4600413	0.1008474	7.32E-06
G	A	0.01	0.5234188	0.1133923	5.75E-06
A	T	0.04	0.315886	0.06309668	9.54E-07
A	T	0.04	0.315886	0.06309668	9.54E-07
G	A	0.04	0.2947731	0.0572047	4.73E-07
T	G	0.18	0.1445158	0.03060137	3.56E-06
C	G	0.17	0.13956	0.03065257	7.61E-06
A	G	0.17	0.1389248	0.03079226	9.12E-06
T	C	0.17	0.142294	0.03095106	6.25E-06
T	C	0.17	0.1432902	0.03089959	5.23E-06
G	A	0.17	0.142294	0.03095106	6.25E-06
AAC	A	0.06	0.226324	0.04879986	5.22E-06
A	G	0.05	0.2358999	0.05190338	7.88E-06
GA	G	0.05	0.2740776	0.05617551	1.74E-06
G	A	0.16	0.1490569	0.03189127	4.44E-06
G	A	0.04	0.2708619	0.05925588	7.02E-06
G	A	0.04	0.2710872	0.05926724	6.93E-06
A	TTAGAACAAATTGTT	0.02	0.4163443	0.09143975	7.60E-06
A	G	0.04	0.309952	0.06361892	1.79E-06
A	G	0.02	0.3867305	0.07689931	8.57E-07
C	T	0.33	0.1159622	0.02463157	3.81E-06
G	A	0.05	0.2301765	0.05069521	8.04E-06
A	G	0.15	0.1679272	0.033672	1.04E-06
G	A	0.15	0.1613468	0.03398561	3.18E-06
G	A	0.01	0.5221815	0.11526	8.40E-06
T	TA	0.09	0.1840133	0.0405201	8.01E-06
T	C	0.03	0.3671049	0.07384868	1.13E-06
T	C	0.02	0.3778837	0.07573056	1.03E-06
CGT	C	0.02	0.348953	0.07580678	6.09E-06
A	AAC	0.05	0.2356846	0.05192483	8.09E-06
A	C	0.37	0.1074301	0.02378343	8.91E-06
A	C	0.37	0.1074301	0.02378343	8.91E-06
C	CACAA	0.39	0.1129624	0.02356178	2.57E-06
A	G	0.39	0.1055901	0.02323981	7.93E-06
T	G	0.38	0.1105129	0.02366412	4.51E-06
G	C	0.39	0.1090983	0.02349655	5.09E-06
T	C	0.38	0.1104652	0.02373428	4.85E-06
G	T	0.07	0.2152585	0.04687111	6.38E-06
T	A	0.02	0.4486651	0.0971882	5.74E-06
G	A	0.02	0.4486651	0.0971882	5.74E-06

G	A	0.02	0.4486651	0.0971882	5.74E-06
C	T	0.02	0.4486651	0.0971882	5.74E-06
TATACA	T	0.02	0.4486651	0.0971882	5.74E-06
A	G	0.02	0.4486651	0.0971882	5.74E-06
C	T	0.03	0.3085702	0.06753195	7.08E-06
G	T	0.02	0.4486651	0.0971882	5.74E-06
A	G	0.02	0.4486651	0.0971882	5.74E-06
C	A	0.02	0.4486651	0.0971882	5.74E-06
T	C	0.02	0.4486651	0.0971882	5.74E-06
C	T	0.05	0.2632202	0.05632477	4.45E-06
G	C	0.4	-0.1014889	0.02239892	8.38E-06
T	C	0.03	0.3364188	0.07436254	8.64E-06
T	C	0.02	0.3745915	0.07610399	1.42E-06
A	G	0.03	0.3364188	0.07436254	8.64E-06
C	G	0.03	0.3364188	0.07436254	8.64E-06
T	C	0.03	0.3364188	0.07436254	8.64E-06
G	A	0.03	0.3364188	0.07436254	8.64E-06
G	A	0.03	0.3364188	0.07436254	8.64E-06
A	G	0.03	0.3364188	0.07436254	8.64E-06
A	G	0.03	0.3364188	0.07436254	8.64E-06
G	A	0.03	0.3364188	0.07436254	8.64E-06
A	G	0.03	0.3364188	0.07436254	8.64E-06
G	GA	0.02	0.4430982	0.09649401	6.40E-06
A	G	0.03	0.3364188	0.07436254	8.64E-06
G	A	0.03	0.3364188	0.07436254	8.64E-06
T	G	0.03	0.3364188	0.07436254	8.64E-06
G	C	0.03	0.3364188	0.07436254	8.64E-06
G	A	0.03	0.3349237	0.07145335	4.18E-06
G	A	0.03	0.3255987	0.07232265	9.52E-06
T	C	0.03	0.3349237	0.07145335	4.18E-06
G	A	0.03	0.3349237	0.07145335	4.18E-06
G	A	0.03	0.3349237	0.07145335	4.18E-06
TCTTCTC	T	0.03	0.3349237	0.07145335	4.18E-06
G	A	0.03	0.3349237	0.07145335	4.18E-06
C	G	0.02	0.3538147	0.0738917	2.64E-06
AAG	A	0.03	0.3349237	0.07145335	4.18E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
G	C	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
T	C	0.03	0.3398843	0.07324298	5.15E-06
AT	A	0.02	0.3542368	0.07395785	2.62E-06
GAGA	G	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
A	C	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
A	G	0.03	0.3398843	0.07324298	5.15E-06

C	T	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
T	C	0.03	0.3398843	0.07324298	5.15E-06
CCTCT	C	0.03	0.3398843	0.07324298	5.15E-06
A	C	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
T	G	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
T	C	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
G	C	0.03	0.3398843	0.07324298	5.15E-06
G	T	0.03	0.3398843	0.07324298	5.15E-06
A	G	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
A	G	0.03	0.3398843	0.07324298	5.15E-06
C	G	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
T	C	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
A	G	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
A	G	0.03	0.3398843	0.07324298	5.15E-06
G	A	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
A	C	0.03	0.3398843	0.07324298	5.15E-06
T	C	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
C	T	0.03	0.3398843	0.07324298	5.15E-06
A	T	0.3	-0.1144223	0.02439	4.10E-06
T	C	0.3	-0.1107929	0.02454113	9.01E-06
C	G	0.3	-0.1126659	0.02446304	6.03E-06
T	C	0.3	-0.111389	0.02448471	7.73E-06
A	T	0.01	0.4557575	0.09891136	5.97E-06
G	A	0.01	0.4557575	0.09891136	5.97E-06
C	T	0.01	0.4557575	0.09891136	5.97E-06
G	A	0.01	0.4557575	0.09891136	5.97E-06
G	A	0.01	0.4557575	0.09891136	5.97E-06
T	C	0.02	0.4770159	0.09415936	7.18E-07
A	C	0.01	0.4709984	0.100758	4.42E-06
T	C	0.06	-0.2415426	0.05096255	3.29E-06
T	C	0.17	-0.1447986	0.03184563	7.81E-06
G	AAGAAAGAAAGAAAC	0.02	0.3949075	0.08726914	8.60E-06
A	G	0.22	0.1278521	0.02834061	9.14E-06
CCCTTTTACTTT	C	0.32	0.1123635	0.02499951	9.83E-06
T	A	0.16	-0.1446521	0.03202543	8.92E-06
A	G	0.04	-0.2667612	0.05680755	4.02E-06
C	G	0.04	-0.2594442	0.05775641	9.94E-06
G	A	0.04	-0.2512023	0.05508638	7.37E-06
A	C	0.01	-0.4512158	0.100126	9.33E-06

A	G	0.02	-0.4686787	0.08831306	2.22E-07
T	C	0.02	-0.4893418	0.08615418	3.36E-08
T	C	0.02	-0.4893418	0.08615418	3.36E-08
C	T	0.02	-0.4893418	0.08615418	3.36E-08
A	G	0.02	-0.4893418	0.08615418	3.36E-08
T	G	0.02	-0.4893418	0.08615418	3.36E-08
G	A	0.02	-0.5342064	0.09060806	1.08E-08
C	T	0.02	-0.5342064	0.09060806	1.08E-08
G	A	0.02	-0.3494686	0.07728067	8.72E-06
C	A	0.04	-0.2625538	0.05787407	8.18E-06
G	T	0.06	-0.2284118	0.04724981	2.14E-06
T	G	0.37	-0.1119387	0.02401757	4.71E-06
G	A	0.02	-0.4426779	0.09592059	5.78E-06
G	A	0.01	-0.5297903	0.1148686	5.85E-06
GGA	G	0.02	-0.3471457	0.07366787	3.73E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
A	T	0.02	-0.4502234	0.0949551	3.27E-06
T	A	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
CTAAA	C	0.02	-0.4502234	0.0949551	3.27E-06
G	T	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
GT	G	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
A	C	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
G	C	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
T	G	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.01	-0.4345968	0.09633674	9.14E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
A	T	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
G	T	0.02	-0.4502234	0.0949551	3.27E-06
A	C	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.02	-0.4502234	0.0949551	3.27E-06

C	T	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
CA	C	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
A	G	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
T	A	0.02	-0.4502234	0.0949551	3.27E-06
ATGCC	A	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.02	-0.4502234	0.0949551	3.27E-06
T	G	0.02	-0.4502234	0.0949551	3.27E-06
C	A	0.01	-0.4348835	0.09626396	8.89E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
T	C	0.02	-0.4502234	0.0949551	3.27E-06
C	A	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
AC	A	0.02	-0.4502234	0.0949551	3.27E-06
G	T	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	T	0.02	-0.4502234	0.0949551	3.27E-06
C	G	0.02	-0.4502234	0.0949551	3.27E-06
G	A	0.01	-0.4625865	0.09884656	4.32E-06
C	T	0.01	-0.4625865	0.09884656	4.32E-06
C	T	0.02	-0.344888	0.07575083	7.61E-06
AATATGT	A	0.02	-0.344888	0.07575083	7.61E-06
C	T	0.14	-0.1533585	0.03376168	7.97E-06
CT	C	0.02	-0.4103632	0.09029076	7.88E-06
G	A	0.02	-0.4314666	0.09535617	8.61E-06
AAGAAAGCAAGAAAC	A	0.02	-0.4771131	0.08899478	1.70E-07
T	C	0.01	-0.4441192	0.09716575	7.03E-06
T	C	0.01	-0.5568207	0.1106164	8.37E-07
G	GT	0.01	-0.5253386	0.1087301	2.16E-06
C	T	0.03	-0.3140646	0.06735771	4.67E-06
A	G	0.4	-0.1078916	0.02330837	5.43E-06
A	T	0.11	-0.1661906	0.03667541	8.37E-06
C	T	0.11	-0.1690154	0.03726552	8.22E-06
C	T	0.11	-0.1690154	0.03726552	8.22E-06
C	T	0.12	-0.1619965	0.03530733	6.51E-06
A	T	0.02	-0.4206536	0.08949046	3.93E-06
GA	G	0.02	-0.4212103	0.08958881	3.92E-06
TG	T	0.24	0.1310953	0.02861384	6.70E-06
G	T	0.3	0.124637	0.02584431	2.25E-06
CT	C	0.28	0.1232582	0.02648399	4.85E-06
CA	C	0.3	0.1215085	0.02606087	4.67E-06
A	G	0.3	0.1178434	0.02595783	8.06E-06

T	A	0.3	0.1197746	0.02585215	5.33E-06
A	T	0.3	0.1178434	0.02595783	8.06E-06
A	C	0.36	0.1162594	0.02462716	3.59E-06
G	A	0.3	0.1180768	0.02606846	8.44E-06
A	G	0.31	0.1198096	0.02573082	4.80E-06
G	A	0.15	-0.1472482	0.03278576	9.98E-06
G	A	0.02	-0.3315613	0.07070035	4.13E-06
CTATT	C	0.01	-0.5688328	0.1215504	4.32E-06
C	T	0.01	-0.5098299	0.1117697	7.33E-06
C	T	0.35	-0.1111575	0.02392615	5.03E-06
G	A	0.02	-0.4542337	0.09958189	7.33E-06
A	G	0.02	-0.3848913	0.08371357	6.24E-06
G	C	0.06	-0.2205633	0.04818285	6.82E-06
C	G	0.06	-0.2194186	0.04814313	7.45E-06
ATGTGTG	A	0.14	0.1634576	0.03482095	4.05E-06
A	G	0.01	-0.5448342	0.1203684	8.55E-06
AC	A	0.02	-0.4729427	0.08828939	1.74E-07
A	G	0.02	-0.3559995	0.07707994	5.69E-06
C	T	0.02	-0.4304346	0.08934027	2.30E-06
T	C	0.03	-0.3493281	0.07543067	5.38E-06
C	T	0.02	-0.3542247	0.07749579	7.03E-06
T	C	0.03	-0.3493281	0.07543067	5.38E-06
ACT	A	0.02	-0.3668679	0.07630319	2.41E-06
A	AT	0.03	-0.2920297	0.06477894	9.27E-06
A	T	0.01	-0.4572522	0.1007433	8.10E-06
A	G	0.01	-0.4572522	0.1007433	8.10E-06
C	T	0.07	-0.2186711	0.04798585	7.47E-06
G	C	0.23	-0.1367098	0.02770129	1.33E-06
A	G	0.23	-0.1272158	0.0279094	7.43E-06
C	T	0.23	-0.1293445	0.02788857	5.21E-06
G	T	0.23	-0.1233279	0.02706935	7.51E-06
C	A	0.31	-0.111876	0.02488645	9.79E-06
A	G	0.29	-0.1210557	0.02524752	2.56E-06
A	G	0.3	-0.1140254	0.02488411	6.68E-06
A	G	0.31	-0.1120199	0.02483071	9.14E-06
G	AGAAAGAAAGAAAG/	0.03	-0.3287498	0.07153677	6.30E-06
T	C	0.04	-0.2914882	0.06133033	3.10E-06
C	T	0.04	-0.2813415	0.06202478	8.20E-06
A	C	0.2	-0.1500832	0.02955299	6.77E-07
A	G	0.09	-0.2051248	0.04318374	3.14E-06
TAGTC	T	0.02	-0.4582542	0.09518231	2.34E-06
C	T	0.02	-0.436375	0.09656024	8.83E-06
C	T	0.04	-0.3158456	0.06189751	6.02E-07
G	C	0.11	-0.1716586	0.03692982	4.98E-06
C	T	0.01	-0.4986501	0.1011537	1.37E-06
GGTTT	G	0.01	-0.4887624	0.1054159	5.25E-06
T	CCCTCCATCCCTCCCTC	0.01	-0.5025393	0.1096525	6.66E-06
G	C	0.05	-0.2406107	0.05353501	9.84E-06
T	C	0.05	-0.2395894	0.05213425	6.30E-06
T	G	0.05	-0.2395894	0.05213425	6.30E-06

C	T	0.05	-0.2351308	0.05114813	6.26E-06
G	A	0.05	-0.2351308	0.05114813	6.26E-06
A	T	0.05	-0.2351308	0.05114813	6.26E-06
CACACACACAG	C	0.06	-0.2274092	0.04594797	1.25E-06
C	T	0.08	-0.187744	0.04177458	9.85E-06
T	C	0.08	-0.187744	0.04177458	9.85E-06
A	G	0.08	-0.187744	0.04177458	9.85E-06
G	A	0.08	-0.187744	0.04177458	9.85E-06
A	G	0.08	-0.187744	0.04177458	9.85E-06
C	T	0.08	-0.187744	0.04177458	9.85E-06
G	A	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
C	A	0.07	-0.2048876	0.04532224	8.77E-06
C	T	0.07	-0.2048876	0.04532224	8.77E-06
G	A	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
G	T	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
C	G	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
C	A	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
CTTCT	C	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
A	T	0.07	-0.2048876	0.04532224	8.77E-06
C	T	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
A	C	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
G	A	0.07	-0.2048876	0.04532224	8.77E-06
T	C	0.07	-0.2081537	0.04535605	6.48E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
C	T	0.07	-0.2048876	0.04532224	8.77E-06
T	G	0.07	-0.2048876	0.04532224	8.77E-06
GTA	G	0.07	-0.2048876	0.04532224	8.77E-06
C	T	0.07	-0.2048876	0.04532224	8.77E-06
T	A	0.07	-0.2107651	0.04543165	5.19E-06
T	C	0.08	-0.1926019	0.04096793	3.92E-06
G	T	0.08	-0.1926019	0.04096793	3.92E-06
C	A	0.08	-0.1855517	0.04106109	8.84E-06
T	C	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2048876	0.04532224	8.77E-06
A	G	0.07	-0.2066182	0.04531393	7.38E-06
A	G	0.07	-0.2066182	0.04531393	7.38E-06
C	G	0.06	-0.2160203	0.04640643	4.83E-06
T	A	0.06	-0.2160203	0.04640643	4.83E-06
T	C	0.26	-0.1239641	0.02636475	3.91E-06

G	A	0.25	-0.1245444	0.02671914	4.70E-06
A	AATT	0.19	-0.1404232	0.03109836	8.97E-06
A	G	0.18	-0.1512287	0.03145482	2.41E-06
A	G	0.18	-0.1441943	0.03145514	6.63E-06
G	A	0.18	-0.1536295	0.03104106	1.25E-06
A	G	0.18	-0.1530056	0.031058	1.39E-06
C	G	0.18	-0.1667668	0.03135452	2.10E-07
C	T	0.18	-0.1587491	0.0312019	6.47E-07
T	G	0.18	-0.1550155	0.03101745	9.94E-07
C	T	0.17	-0.1497158	0.03177236	3.73E-06
A	G	0.18	-0.1527978	0.03101455	1.39E-06
C	T	0.18	-0.1583846	0.03120573	6.86E-07
A	G	0.18	-0.1583846	0.03120573	6.86E-07
A	G	0.18	-0.1527978	0.03101455	1.39E-06
A	G	0.18	-0.1594656	0.0311948	5.76E-07
C	T	0.17	-0.1572351	0.03196972	1.44E-06
A	G	0.18	-0.1583846	0.03120573	6.86E-07
G	T	0.18	-0.1527978	0.03101455	1.39E-06
C	T	0.17	-0.1457867	0.03187316	6.93E-06
T	A	0.01	-0.4353793	0.0932402	4.53E-06
G	C	0.01	-0.5430772	0.1176008	5.70E-06
A	G	0.04	-0.2557604	0.05672168	9.23E-06
G	A	0.38	-0.1111381	0.02396502	5.22E-06
T	C	0.38	-0.1105485	0.0239759	5.89E-06
A	G	0.02	-0.3976775	0.08636999	6.06E-06
A	G	0.11	-0.1760966	0.03718239	3.35E-06
C	T	0.01	-0.4448972	0.09825924	8.50E-06
C	G	0.32	0.1135006	0.02526344	9.91E-06
G	GGA	0.02	-0.3598177	0.07888342	7.33E-06
C	G	0.02	-0.4471549	0.09902522	8.97E-06
A	G	0.24	-0.1238377	0.02747248	9.28E-06
A	C	0.02	-0.4257592	0.09265971	6.32E-06
G	A	0.01	-0.4904325	0.1088553	9.38E-06
T	A	0.09	-0.1897351	0.04051704	4.26E-06
G	A	0.03	-0.3023199	0.06711382	9.41E-06
CATAGATAG	C	0.11	-0.1610321	0.03564336	8.88E-06
G	T	0.02	-0.3754512	0.08084917	5.08E-06
C	T	0.08	-0.2047538	0.04047723	7.44E-07
G	T	0.07	-0.2374903	0.04547507	3.37E-07
G	C	0.07	-0.2374903	0.04547507	3.37E-07
A	C	0.11	-0.1670909	0.03652627	6.92E-06
A	G	0.02	-0.4263602	0.08842737	2.26E-06
G	A	0.01	-0.4801067	0.09944072	2.20E-06
TG	T	0.01	-0.4801067	0.09944072	2.20E-06
G	A	0.01	0.4192453	0.09238954	8.13E-06
A	G	0.02	0.3799783	0.08200591	5.32E-06
G	T	0.38	0.1043927	0.0219518	3.06E-06
C	T	0.03	0.3084535	0.06672415	5.58E-06
C	A	0.34	-0.1009638	0.02206522	6.88E-06
C	T	0.34	-0.1005979	0.02210126	7.65E-06

C	T	0.06	0.212209	0.04576998	5.25E-06
C	T	0.03	0.2893278	0.063743	8.09E-06
C	T	0.4	-0.0931771	0.02041835	7.26E-06
C	T	0.02	0.3409407	0.07520916	8.30E-06
C	T	0.01	0.4111521	0.09149518	9.87E-06
C	T	0.01	0.4111521	0.09149518	9.87E-06
T	G	0.02	0.3871713	0.08460462	6.86E-06
TTTGTTA	T	0.02	0.3871713	0.08460462	6.86E-06
C	T	0.24	-0.1145922	0.02482197	5.74E-06
A	C	0.24	-0.11389	0.0248331	6.57E-06
G	T	0.23	-0.1193226	0.02512217	3.15E-06
C	A	0.24	-0.1134748	0.02482811	7.04E-06
T	G	0.24	-0.1145922	0.02482197	5.74E-06
T	G	0.24	-0.112817	0.02473536	7.34E-06
G	A	0.29	-0.1084035	0.02408355	9.55E-06
G	A	0.29	-0.1084035	0.02408355	9.55E-06
G	A	0.29	-0.1084035	0.02408355	9.55E-06
T	C	0.29	-0.1084035	0.02408355	9.55E-06
C	T	0.28	-0.1123173	0.024264	5.43E-06
T	C	0.28	-0.1115392	0.02427211	6.30E-06
G	T	0.16	0.1337408	0.02943268	7.92E-06
G	A	0.16	0.1337408	0.02943268	7.92E-06
T	C	0.04	0.2699946	0.05520978	1.65E-06
A	G	0.02	0.3296098	0.07042789	4.31E-06
A	T	0.01	0.5026012	0.09742926	4.60E-07
T	A	0.14	0.1377071	0.03056685	9.39E-06
G	GCACACA	0.01	0.4680677	0.09704325	2.25E-06
G	A	0.06	0.1980437	0.04358541	7.92E-06
G	A	0.01	0.4259386	0.09157464	4.91E-06
A	C	0.43	0.1092556	0.02264345	2.23E-06
C	T	0.43	0.1135109	0.02241999	7.29E-07
T	TA	0.03	0.274945	0.06104451	9.43E-06
AATT	A	0.01	0.469081	0.1012735	5.36E-06
T	A	0.01	0.4395373	0.09433429	4.74E-06
A	G	0.01	0.4395373	0.09433429	4.74E-06
A	T	0.03	0.3136947	0.06486144	2.11E-06
G	A	0.01	0.3871242	0.07746045	9.94E-07
CACAA	C	0.02	0.3790152	0.08193562	5.51E-06
G	T	0.02	0.3790152	0.08193562	5.51E-06
G	A	0.01	0.4162941	0.09218778	8.96E-06
C	G	0.01	0.4162941	0.09218778	8.96E-06
A	G	0.01	0.4162941	0.09218778	8.96E-06
G	T	0.02	0.4351581	0.08967224	1.96E-06
C	T	0.01	0.6348472	0.1026099	2.23E-09
C	T	0.5	-0.0997538	0.02186652	7.31E-06
C	T	0.25	0.1076851	0.02387773	9.20E-06
T	C	0.25	0.1076851	0.02387773	9.20E-06
A	T	0.25	0.1076851	0.02387773	9.20E-06
G	A	0.01	0.5143839	0.1077254	2.80E-06
C	A	0.01	0.5143839	0.1077254	2.80E-06

C	T	0.01	0.5143839	0.1077254	2.80E-06
C	T	0.01	0.5143839	0.1077254	2.80E-06
G	T	0.01	0.5143839	0.1077254	2.80E-06
A	G	0.01	0.5143839	0.1077254	2.80E-06
A	G	0.01	0.5143839	0.1077254	2.80E-06
A	G	0.01	0.5143839	0.1077254	2.80E-06
A	C	0.01	0.5143839	0.1077254	2.80E-06
A	G	0.01	0.5143839	0.1077254	2.80E-06
C	T	0.09	0.17595	0.03696275	3.00E-06
T	TACAC	0.16	0.1364296	0.0303138	9.58E-06
A	G	0.05	0.223074	0.04823261	5.53E-06
C	A	0.05	0.2392144	0.04890404	1.64E-06
C	T	0.05	0.2327827	0.04861214	2.63E-06
C	T	0.05	0.2274219	0.04836252	3.90E-06
T	G	0.05	0.2327827	0.04861214	2.63E-06
C	G	0.05	0.2327827	0.04861214	2.63E-06
C	T	0.05	0.2327827	0.04861214	2.63E-06
C	T	0.05	0.2253588	0.04834561	4.69E-06
C	A	0.05	0.2327827	0.04861214	2.63E-06
A	G	0.05	0.2327827	0.04861214	2.63E-06
A	T	0.05	0.2447689	0.04910157	1.06E-06
C	G	0.05	0.2327827	0.04861214	2.63E-06
A	T	0.05	0.2327827	0.04861214	2.63E-06
T	G	0.05	0.2388285	0.04886965	1.67E-06
C	G	0.05	0.2327827	0.04861214	2.63E-06
A	G	0.05	0.2327827	0.04861214	2.63E-06
C	T	0.05	0.2327827	0.04861214	2.63E-06
G	A	0.05	0.2327827	0.04861214	2.63E-06
C	G	0.05	0.2327827	0.04861214	2.63E-06
C	T	0.05	0.2327827	0.04861214	2.63E-06
T	C	0.05	0.2327827	0.04861214	2.63E-06
A	C	0.05	0.2327827	0.04861214	2.63E-06
T	C	0.05	0.2327827	0.04861214	2.63E-06
G	A	0.05	0.2327827	0.04861214	2.63E-06
C	A	0.04	0.2352609	0.05227726	9.59E-06
C	T	0.05	0.2256562	0.04933273	6.93E-06
C	T	0.01	0.486222	0.1028916	3.51E-06
C	T	0.23	0.1182406	0.02569402	6.12E-06
C	A	0.01	0.4891861	0.1066487	6.55E-06
G	A	0.41	-0.0976131	0.02164577	9.21E-06
G	T	0.06	0.2102069	0.04564778	6.04E-06
A	G	0.06	0.2102069	0.04564778	6.04E-06
A	G	0.03	0.2742624	0.05939865	5.72E-06
T	A	0.14	0.1414886	0.03150241	9.97E-06
C	T	0.11	0.1648592	0.03459953	2.94E-06
A	C	0.12	0.1526831	0.03391341	9.51E-06
A	G	0.12	0.1544132	0.03372933	6.81E-06
GATC	G	0.01	0.4707959	0.09473786	1.14E-06
A	G	0.01	0.4210382	0.09184354	6.62E-06
C	T	0.01	0.4210382	0.09184354	6.62E-06

C	T	0.01	0.4210382	0.09184354	6.62E-06
C	T	0.04	0.2578434	0.05708644	8.92E-06
T	C	0.03	0.2993083	0.06502861	6.10E-06
T	C	0.03	0.3387864	0.06895935	1.48E-06
T	C	0.16	0.1366455	0.02996108	7.35E-06
TCTC	T	0.05	0.2217066	0.04671707	3.20E-06
A	G	0.06	0.21023	0.04504173	4.57E-06
A	G	0.06	0.21023	0.04504173	4.57E-06
C	T	0.06	0.21023	0.04504173	4.57E-06
A	G	0.06	0.2148997	0.04519735	3.08E-06
A	G	0.06	0.21023	0.04504173	4.57E-06
A	C	0.06	0.202276	0.04469172	8.57E-06
T	C	0.06	0.21023	0.04504173	4.57E-06
T	C	0.06	0.2062123	0.04549721	8.33E-06
A	G	0.06	0.2141445	0.04520433	3.33E-06
A	G	0.06	0.21023	0.04504173	4.57E-06
G	A	0.06	0.21023	0.04504173	4.57E-06
T	C	0.06	0.21023	0.04504173	4.57E-06
A	G	0.06	0.21023	0.04504173	4.57E-06
T	G	0.06	0.21023	0.04504173	4.57E-06
T	G	0.06	0.2193455	0.04540325	2.17E-06
C	T	0.06	0.2193455	0.04540325	2.17E-06
G	A	0.06	0.2193455	0.04540325	2.17E-06
CATGTTGA	C	0.06	0.2193455	0.04540325	2.17E-06
A	G	0.06	0.2193455	0.04540325	2.17E-06
C	T	0.06	0.2143804	0.04628608	5.36E-06
G	C	0.06	0.2143804	0.04628608	5.36E-06
G	A	0.02	0.3532662	0.07485889	3.62E-06
T	C	0.02	0.3659343	0.07567614	2.12E-06
CTG	C	0.07	0.2100105	0.04338693	2.08E-06
TCA	T	0.01	0.4717495	0.08915929	2.41E-07
A	G	0.01	0.4998644	0.1024536	1.74E-06
T	C	0.01	0.4998644	0.1024536	1.74E-06
T	C	0.11	0.150046	0.03323449	9.00E-06
A	G	0.15	0.1457327	0.03091491	3.70E-06
G	A	0.01	0.5179433	0.1047645	1.28E-06
T	C	0.01	0.4294135	0.09170705	4.27E-06
A	G	0.02	0.3449547	0.06998725	1.38E-06
G	A	0.02	0.3424675	0.07195699	3.01E-06
AAAAT	A	0.04	0.2594447	0.0558912	5.12E-06
C	T	0.04	0.2544852	0.0552136	5.93E-06
A	G	0.01	0.4382618	0.0967044	8.34E-06
A	G	0.01	0.4618484	0.1001747	5.90E-06
T	C	0.01	0.4618484	0.1001747	5.90E-06
T	C	0.01	0.4913294	0.1070962	6.52E-06
G	T	0.01	0.4913294	0.1070962	6.52E-06
C	T	0.01	0.4913294	0.1070962	6.52E-06
C	T	0.01	0.4913294	0.1070962	6.52E-06
A	G	0.04	0.2493874	0.05471124	7.43E-06
A	T	0.03	0.319743	0.06968215	6.50E-06

GTGTGTGTGTGTGTG	C	0.01	0.4668112	0.1014348	6.12E-06
C	CTGTGTGTGTG	0.01	0.4552874	0.08933452	6.21E-07
A	AAC	0.05	0.2270109	0.04737262	2.59E-06
C	CTGGA	0.04	0.2506781	0.05127316	1.66E-06
C	T	0.03	0.3090907	0.06656337	5.08E-06
T	G	0.03	0.3090907	0.06656337	5.08E-06
CG	C	0.02	0.356742	0.07165779	1.09E-06
C	A	0.46	-0.0930643	0.02056947	8.63E-06
C	T	0.46	-0.0934005	0.02056266	7.98E-06
G	A	0.46	-0.0939088	0.02049193	6.67E-06
C	T	0.46	-0.0932985	0.02049155	7.61E-06
A	G	0.01	0.4881944	0.09608063	6.68E-07
A	T	0.01	0.476496	0.09079407	2.97E-07
G	A	0.01	0.476496	0.09079407	2.97E-07
C	T	0.01	0.476496	0.09079407	2.97E-07
C	T	0.02	0.4357354	0.08490483	5.23E-07
C	A	0.02	0.4357354	0.08490483	5.23E-07
G	GC	0.02	0.4192429	0.08706133	2.33E-06
C	T	0.02	0.4357354	0.08490483	5.23E-07
G	A	0.01	0.476496	0.09079407	2.97E-07
A	C	0.02	0.4195869	0.08687992	2.18E-06
G	A	0.01	0.476496	0.09079407	2.97E-07
T	C	0.02	0.4570857	0.08647323	2.47E-07
T	C	0.02	0.4320781	0.08534752	7.30E-07
A	G	0.02	0.4320781	0.08534752	7.30E-07
G	A	0.02	0.4320781	0.08534752	7.30E-07
T	C	0.02	0.4320781	0.08534752	7.30E-07
C	T	0.02	0.4360785	0.0889643	1.56E-06
T	C	0.02	0.4320781	0.08534752	7.30E-07
C	T	0.02	0.4320781	0.08534752	7.30E-07
C	A	0.02	0.4320781	0.08534752	7.30E-07
T	C	0.02	0.4320781	0.08534752	7.30E-07
A	G	0.02	0.4320781	0.08534752	7.30E-07
A	G	0.02	0.4320781	0.08534752	7.30E-07
T	C	0.02	0.4320781	0.08534752	7.30E-07
C	T	0.02	0.4320781	0.08534752	7.30E-07
T	C	0.01	0.4200251	0.09118588	6.01E-06
C	T	0.02	0.4394265	0.0886982	1.22E-06
G	A	0.02	0.4320781	0.08534752	7.30E-07
T	A	0.02	0.4394265	0.0886982	1.22E-06
C	A	0.02	0.4394265	0.0886982	1.22E-06
G	T	0.02	0.4394265	0.0886982	1.22E-06
CAG	C	0.01	0.4216181	0.09114564	5.51E-06
A	C	0.02	0.4394265	0.0886982	1.22E-06
T	G	0.02	0.4394265	0.0886982	1.22E-06
CAGCGTGG	C	0.04	0.2635574	0.05725219	6.08E-06
G	A	0.04	0.2435835	0.05384177	8.64E-06
CTCCTTCTCA	C	0.01	0.4568426	0.09318686	1.56E-06
C	CA	0.06	0.1973485	0.04353224	8.29E-06
AACACAC	A	0.01	0.4566182	0.1008906	8.57E-06

CT	C	0.06	0.2128369	0.04696458	8.35E-06
T	C	0.04	0.2647493	0.05353909	1.27E-06
C	T	0.01	0.4817832	0.09093091	2.32E-07
C	A	0.01	0.4817832	0.09093091	2.32E-07
C	T	0.03	0.3369244	0.06626347	6.57E-07
C	G	0.01	0.4465936	0.09168493	1.80E-06
G	A	0.03	0.2950409	0.06272041	3.87E-06
C	G	0.03	0.3052535	0.06633224	6.12E-06
G	A	0.02	0.3581566	0.07615838	3.89E-06
G	A	0.02	0.4324774	0.08090188	1.84E-07
C	T	0.02	0.3899211	0.07840758	1.12E-06
T	C	0.02	0.3899211	0.07840758	1.12E-06
G	A	0.02	0.4117444	0.07975277	4.51E-07
T	TTA	0.02	0.412635	0.08728892	3.49E-06
T	A	0.02	0.3920378	0.08585509	7.17E-06

Metabolite	Taxonomic level	Microbial ID	beta
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M00053	otu	denovo1012	0.08780971
M00053	otu	denovo1014	0.10577601
M00053	otu	denovo1026	0.08474746
M00053	otu	denovo1064	-0.1109676
M00053	otu	denovo107	0.21240724
M00053	otu	denovo1082	-0.0916727
M00053	otu	denovo11	-0.1007603
M00053	otu	denovo110	-0.1163931
M00053	otu	denovo1104	-0.0795788
M00053	otu	denovo111	-0.1071387
M00053	otu	denovo1126	0.14611429
M00053	otu	denovo1155	0.13266729
M00053	otu	denovo1158	0.1195627
M00053	otu	denovo116	-0.0889498
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M00053	otu	denovo125	0.12583439
M00053	otu	denovo126	-0.0832569
M00053	otu	denovo1262	0.07613299
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M52276	otu	denovo510	0.15484586
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M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1713852
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0873883
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0814439
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15377755
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13265816
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0992544
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0808916
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1014518
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0935456
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0944746
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1076907
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12598657
M00053	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17441039
M00053	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0853108
M00053	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1105721
M00053	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09735422
M00053	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0820864
M00053	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1325922
M00053	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0907626
M00053	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07832166
M00053	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09831406
M00053	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1137717
M00054	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.107681
M00054	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07521206
M00054	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1547473
M00054	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0999871
M00054	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1129942
M00054	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.0843201

M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1895865
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2234915
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1156778
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17079312
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0783333
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08313524
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15878463
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0791866
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08788162
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1435332
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0832875
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0832083
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0745281
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0872309
M00054	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18194341
M00054	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0962116
M00054	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1051721
M00054	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1751932
M00054	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07494435
M00054	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07541042
M00054	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1671755
M00054	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0968821
M00054	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09120624
M00054	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0855946
M00054	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13642501
M00054	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1019738
M00055	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1147028
M00055	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11456739
M00055	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0989418
M00055	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1143464
M00055	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1033985
M00055	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07779975
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.106577
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1156197
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12855998
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0842071
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12186575
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14256321
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1302747
M00055	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20353772
M00055	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08268823
M00055	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1072996
M00055	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0872407
M00055	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12685718
M00055	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09295029
M00055	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1109271
M00056	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0856696
M00056	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0991838
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1362691
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1281106

M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2217717
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0889736
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14326177
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12275959
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09794144
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09234624
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0873951
M00056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19947889
M00056	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1054729
M00056	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08713823
M00056	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09143872
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09287765
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09842095
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09943815
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12471901
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11369351
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.09159338
M00056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09725006
M00056	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	-0.0919553
M00056	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.121468
M00057	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1192183
M00057	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0801719
M00057	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0923814
M00057	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0823484
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0805003
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1154773
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19190893
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12154118
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14495392
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19722684
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0829321
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17747048
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1314733
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09516456
M00057	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17078106
M00057	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0953117
M00057	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0863014
M00057	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1001131
M00057	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1096615
M00057	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1486057
M00057	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09940435
M00057	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.120692
M00057	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07987409
M00057	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0902817
M00057	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08933769
M00058	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1104709
M00058	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.07691058
M00058	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0844678
M00058	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1029733
M00058	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1168958

M00058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14150691
M00058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12636701
M00058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11816616
M00058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1138955
M00058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14251704
M00058	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0812782
M00058	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1231176
M00058	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1059548
M00058	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1176141
M00058	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1292246
M00058	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0779281
M00058	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0855397
M00058	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11314734
M00059	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07786755
M00059	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0867471
M00059	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0991446
M00059	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0929331
M00059	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.09111013
M00059	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.13378973
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1030023
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.170334
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2124342
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1083341
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1681513
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11724002
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07923346
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17304388
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14204501
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1178213
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0735949
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11666649
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1100569
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0909925
M00059	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17498014
M00059	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0799129
M00059	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1518447
M00059	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08703625
M00059	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07337197
M00059	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1387124
M00059	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1361721
M00059	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12359093
M00059	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1072782
M00060	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0822881
M00060	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1314692
M00060	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0824441
M00060	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0801986
M00060	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08040004
M00060	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1232592
M00060	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1252502
M00060	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1175486

M00060	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0786128
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1130584
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.126185
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0869616
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0821527
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14593648
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11733076
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1114327
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1136611
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1416449
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0853957
M00060	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16826886
M00060	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1216959
M00060	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1164838
M00060	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1546727
M00060	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1549404
M00060	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0817489
M00060	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12233224
M00063	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10621803
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1554352
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1555461
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12766521
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10947311
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13470483
M00063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11080985
M00063	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09311633
M00063	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08178143
M00063	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11153963
M00063	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0790862
M00064	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.120082
M00064	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.08431731
M00064	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1359196
M00064	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1278797
M00064	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1181977
M00064	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08848193
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1355805
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1442968
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0816873
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15848323
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08803211
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12828331
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0766536
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1180264
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11049752
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1380884
M00064	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19017918
M00064	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1139697
M00064	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1096381
M00064	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1599729
M00064	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1693439

M00064	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1381794
M00396	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08880784
M00396	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	-0.1726994
M00396	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	-0.082276
M00396	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0979752
M00396	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1292648
M00396	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08880784
M00396	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08564274
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0926918
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11644941
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928659
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1206066
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0841949
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0841949
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.088326
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0778583
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0913548
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0899923
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09124721
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0841949
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0932928
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0859464
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928659
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0913548
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.076263
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928659
M00396	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0952671
M00396	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0913548
M00396	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.0928659
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0865267
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1066833
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.153858
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0844349
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0799701
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0830067
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0928659
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0972256
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08564274
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0806632
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.127371
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09150331
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0845896
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0913548
M00396	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0875005
M00396	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0913548
M00396	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0995048
M00396	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.09528978
M00396	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.0928659
M00396	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08901202
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0868066

M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0968969
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1137702
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0774756
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0913548
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0841949
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0923626
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0978245
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0925606
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0836328
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0985756
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.091276
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1149129
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.0859524
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobac	-0.0922421
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.0891245
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconost	-0.0876743
M00396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconost	-0.0813286
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicro	-0.0913548
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldicoccus	-0.1018794
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.1121616
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	0.09664597
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.0856789
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.1419198
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.0883789
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.101108
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococ	-0.2918437
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.2072756
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.1128583
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.0825424
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibac	-0.0857468
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.0841949
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.1000054
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	0.10949163
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	0.08583728
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacter	-0.1467505
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.103207
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.0932266
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.0783147
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.0843367
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.1187031
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococc	-0.0863847
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostre	-0.0868858
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostre	-0.0931139
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	0.07536178
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.0866153
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.1122908
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntropho	-0.28623
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.1178558
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.0756754
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.0760799

M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0757434
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0805629
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08801378
M00396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0841949
M00396	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1051874
M00396	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0760788
M00396	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0883544
M00396	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09135483
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0810255
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0782676
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0907148
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0847179
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0928659
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09135483
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09258924
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0850805
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0919994
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09212164
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.09296211
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0784527
M00396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0842973
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.099663
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0960775
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1093885
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0875997
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884133
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0869721
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0833785
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1386018
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0888405
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0935907
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0886669
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0841949
M00396	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0786397
M00396	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0904398
M00396	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08058626
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09135483
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0935134
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0841949
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0872503
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0917334
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0911914
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0892326
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0984948

M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0755381
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1079343
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0841572
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0941685
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08880784
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0891242
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0913548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09409048
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1010642
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0928659
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0872503
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0877931
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0908548
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0965036
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0910112
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08859979
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0893476
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0860629
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0907148
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08569983
M00396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09135483
M00396	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0841949
M00396	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0841949
M00396	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0919695
M00396	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0842929
M00396	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0798366
M00396	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1039284
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0847743
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0928659
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0971382
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.095052
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1106366
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0883544
M00396	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09135483
M00437	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2730678
M00437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20249801
M00437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1958881
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3201066
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5685784
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2627981
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23753807
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31048375
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22589928
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2713612
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26386326
M00437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.44808454
M00437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2039543
M00437	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	0.32474888
M00437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19616726

M00437	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2313224
M00437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27293043
M00437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32195473
M00437	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.304698
M00443	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0772134
M00443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1312199
M00443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08210838
M00443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07690604
M00443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0771836
M00443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1413377
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0874719
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1773243
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0947587
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14512156
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08452303
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09876644
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1045111
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0778804
M00443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13477642
M00443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1004807
M00443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1329224
M00443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1204245
M00443	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0769924
M00443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08455031
M00443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10782604
M00485	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0961478
M00485	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0833745
M00485	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07918526
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0821063
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1306296
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1009547
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0882875
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07975172
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11635744
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14504113
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11694342
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.141955
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.08592111
M00485	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09353537
M00485	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0973747
M00485	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1003857
M00485	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09053119
M00485	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1146757
M00485	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08517264
M00485	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1129032
M00512	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09195692
M00512	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08577454
M00512	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1832136
M00512	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0953275
M00512	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.1046822

M00512	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11355609
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1542019
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1239504
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11421244
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16906319
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1266087
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11241124
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12756221
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15531501
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08242199
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10116515
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17793887
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1003848
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0930048
M00512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18035204
M00512	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1552225
M00512	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1274816
M00512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1274226
M00512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09397975
M00512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15376153
M00512	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1186215
M00513	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10064201
M00513	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12334547
M00513	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0815737
M00513	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__E	-0.1081351
M00513	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.12909972
M00513	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08581159
M00513	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.0926033
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0796149
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0941945
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.090172
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0888533
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09608247
M00513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08185439
M00513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.08058
M00513	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10612449
M00513	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09470262
M00513	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.10064201
M00513	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09420816
M00513	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09854007
M00513	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08493046
M00513	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10460871
M00513	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.11056177
M00513	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.082324
M00514	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.151138
M00514	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0940693
M00514	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0883266
M00514	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1016978
M00514	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0815311
M00514	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08538206

M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1169724
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1237685
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1438593
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1784701
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0919049
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15655419
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20898518
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0868233
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1636122
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16392761
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1723611
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0794195
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10317425
M00514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29364126
M00514	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1608268
M00514	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1028694
M00514	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1463927
M00514	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08873347
M00514	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09345304
M00514	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.104193
M00514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1164252
M00514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27287763
M00514	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1546586
M00527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07691793
M00527	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1041461
M00527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.17821545
M00527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10754173
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0820841
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0939617
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0799359
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0875132
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.127433
M00527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18059969
M00527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1021935
M00527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0862181
M00527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1057668
M00527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0769299
M00527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11659664
M00528	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08423843
M00528	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0826915
M00528	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08581912
M00528	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12613942
M00528	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10144123
M00528	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08665307
M00528	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08821031
M00528	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09940318
M00528	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1748112
M00528	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10995132
M00531	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08544603
M00531	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0947288

M00531	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridiales.g__Clostridiaceae	-0.0810578
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.g__Christensenellaceae	-0.1049209
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium.g__Dehalobacteriaceae	-0.1419247
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium.g__Eubacteriaceae	-0.0968396
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae.g__Lachnospiraceae	0.10500993
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae.g__Lachnospiraceae	0.09973983
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae.g__Lachnospiraceae	0.07990479
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	-0.1663132
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	0.08846525
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	-0.118872
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__Veillonellaceae	0.10260712
M00531	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__Veillonellaceae	0.2047822
M00531	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae	-0.0945043
M00531	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae	-0.099299
M00531	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae.g__Fusobacteriaceae	0.08973237
M00531	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriaceae.g__Neisseriaceae	0.08630077
M00531	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum.g__Desulfotomaculum	-0.0971634
M00531	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriaceae.g__Campylobacteriaceae	0.09079517
M00531	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriaceae.g__Cardiobacteriaceae	0.08893907
M00531	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.g__Pasteurellales	0.15047833
M00531	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.g__Verrucomicrobiae	-0.1043269
M00533	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae.g__Methanobacteriaceae	-0.1961255
M00533	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomycetaceae	-0.2392286
M00533	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomycetaceae	0.36134006
M00533	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomycetaceae	-0.2148945
M00533	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriaceae.g__Bifidobacteriaceae	-0.1938126
M00533	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae.g__Coriobacteriaceae	-0.2014751
M00533	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae.g__Coriobacteriaceae	-0.2563343
M00533	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Flavobacteriaceae	-0.3553649
M00533	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Flavobacteriaceae	0.20601064
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__Listeriaceae	0.35058277
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__Staphylococcaceae	-0.2552615
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__Gemellaceae	-0.2933985
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__Aerococcaceae	-0.3512502
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Enterococcaceae	0.18866163
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__Leuconostocaceae	-0.238322
M00533	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcaceae	-0.2108575
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__Clostridiaceae	-0.169865
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__Clostridiaceae	0.20032825
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__Clostridiaceae	-0.270965
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__Clostridiaceae	-0.1807582
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium.g__Eubacteriaceae	-0.3132753
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae.g__Lachnospiraceae	-0.2172519
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium.g__Mogibacteriaceae	-0.2046082
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__Peptococcaceae	-0.2914806
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__Peptococcaceae	-0.22338
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	-0.1717004
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	-0.3002243
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella.g__Tissierellaceae	-0.2071446
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella.g__Tissierellaceae	0.26220821

M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28252602
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2390099
M00533	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2171577
M00533	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1887221
M00533	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1760436
M00533	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1919431
M00533	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27614475
M00533	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2479303
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2197922
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1922798
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2194899
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2119959
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22576843
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1852271
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2015823
M00533	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2001819
M00533	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.2228483
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1856333
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2602439
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1717505
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3320848
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3703607
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2079585
M00533	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2326651
M00533	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.21698491
M00533	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2832601
M00533	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1897265
M00537	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1093391
M00537	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0994422
M00537	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848994
M00537	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0939522
M00537	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0937061
M00537	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1044636
M00537	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1005482
M00537	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10841505
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10792246
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10182106
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.082011
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08773539
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1053475
M00537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0865543
M00537	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1121956
M00537	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1187747
M00537	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1484128
M00537	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.116267
M00541	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09176378
M00541	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09252758
M00541	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09698661
M00541	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0971813
M00541	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0905571

M00541	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1015381
M00541	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09885473
M00541	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09125551
M00541	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.12506909
M00541	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09040486
M00541	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.14710049
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1453712
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0803467
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.098127
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08034985
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.0924742
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1519622
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0987867
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0897225
M00541	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17347931
M00541	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08349059
M00541	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1330554
M00541	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0881978
M00541	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09670617
M00541	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09176378
M00541	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08801168
M00541	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.10544338
M00541	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10725475
M00541	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1094413
M00541	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0820565
M00541	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0799548
M00541	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1369668
M00542	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.13721942
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09875352
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08799392
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.15685151
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10036006
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1566186
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12597552
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16960175
M00542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.093538
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.09178353
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18725642
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.15677249
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.12105804
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.09869304
M00542	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13828871
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.10040471
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.1203054
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.12819586
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.13941838
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.15685911
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.0881858
M00542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09075856
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1312063

M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1397079
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.11930489
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0878771
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0873991
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11182399
M00542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11201189
M00542	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1516186
M00542	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.16245663
M00542	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.15685151
M00542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1538157
M00542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16195531
M00542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12768856
M00542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0970231
M00542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11170806
M00542	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.0933745
M00542	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.15460542
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.12664209
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.12244281
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10129762
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09713704
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09296234
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.13948053
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16588282
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11552627
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10868626
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.17206815
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0911224
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12664209
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08421626
M00542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.15155665
M00542	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	-0.1090631
M00542	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1076911
M00554	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1305073
M00554	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.091334
M00554	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.094801
M00554	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1242189
M00554	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08176724
M00554	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0966166
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1442197
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0940455
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08563059
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1030832
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11952687
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19960919
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1154386
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0890957
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09904827
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18081851
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.09742616
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0878355

M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1209689
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0884006
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0932456
M00554	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15597106
M00554	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1428875
M00554	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0894989
M00554	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.18176365
M00554	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1079341
M00554	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13706999
M00554	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0938258
M00554	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.08311704
M00555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13722869
M00555	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1372908
M00555	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0918242
M00555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.11834647
M00555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1286834
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0945672
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.122099
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0892141
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11727922
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10639296
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0868151
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0878759
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1650475
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1021337
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08495608
M00555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15207331
M00555	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1886377
M00555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1021528
M00555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0949377
M00555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0908345
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1109683
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1227562
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1042127
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13906094
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1255875
M00555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.090254
M00566	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0900536
M00566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0886663
M00566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0880203
M00566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0919011
M00566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0931455
M00566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0924569
M00566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.08841134
M00566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10228676
M00566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1089713
M00566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.101646
M00566	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09436707
M00566	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11532051
M00566	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0933745

M00566	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1099274
M00568	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.15007389
M00568	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.14115155
M00568	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0895734
M00568	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.10882568
M00568	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0828191
M00568	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1261699
M00568	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.0833353
M00568	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1064842
M00568	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.1106401
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	0.22616172
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehaloc	0.20683744
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.16076322
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.10231748
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1153418
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1185489
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.217941
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.157035
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1007518
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3074784
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14309061
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0928235
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2390055
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13490694
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0991464
M00568	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3384796
M00568	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12487684
M00568	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.1175466
M00568	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.13018345
M00568	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0826152
M00568	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1101306
M00568	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1059029
M00568	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2955553
M00568	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0878274
M00568	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.2093715
M00569	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08994648
M00573	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0967719
M00573	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1106897
M00573	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0899635
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0980634
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0810031
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0930946
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1426349
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0840709
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0906282
M00573	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0877129
M00573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09938501
M00573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0794252
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.2041255
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1359325

M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2367768
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2428491
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0930654
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11946321
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08770199
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15896047
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1023509
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0876572
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.110616
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.119347
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1380478
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16779052
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1593999
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1468669
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0855358
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0909983
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0769432
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0870368
M00573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25355641
M00573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1183716
M00573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1662672
M00573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0774052
M00573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1103118
M00573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.143217
M00573	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10014865
M00573	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085232
M00573	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1351001
M00573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0821372
M00573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0799187
M00573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.107211
M00573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21627982
M00573	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0867443
M00573	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1665731
M00575	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09216975
M00575	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09207736
M00575	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07889168
M00575	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0818668
M00575	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09645909
M00575	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09757271
M00575	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0888048
M00575	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.0800188
M00575	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0837399
M00575	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08605577
M00575	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08490471
M00575	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08836795
M00575	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08543784
M00575	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.0921083
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0781253
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1201604
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1260097

M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14186361
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08552128
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10182842
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12386924
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14820131
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12689183
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08547801
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0777845
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1148026
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17311919
M00575	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22091641
M00575	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1246615
M00575	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09026936
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1084341
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1083425
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08915344
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08449777
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08466541
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08138152
M00575	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08400851
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.10422402
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09151335
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09605868
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09624218
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16624846
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09151335
M00575	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08174759
M00575	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1180505
M00587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10728945
M00587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0898173
M00587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1032828
M00587	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08389397
M00587	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0880426
M00587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0832419
M00587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0972475
M00587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0883408
M00587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.10212
M00587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09758541
M00587	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1079516
M00587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0877868
M00587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08784277
M00587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0978744
M00587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08500411
M00587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0844782
M00587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08962465
M00587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0891159
M00587	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0784821
M00594	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08190584
M00594	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.095504
M00594	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0870682

M00594	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08190584
M00594	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0858303
M00594	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0911527
M00594	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0964511
M00594	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1212629
M00594	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08738098
M00594	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0847916
M00594	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1036623
M00594	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08894149
M00594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0848723
M00594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0811579
M00594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.079535
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0800607
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1633267
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0819663
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0884526
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1389908
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1623981
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0835562
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1031083
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08719703
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1104213
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.080492
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0923325
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0889267
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0840353
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0848958
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0839244
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0841783
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0954489
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1144376
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.115277
M00594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1077414
M00594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10381236
M00594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1106063
M00594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1311591
M00594	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0991278
M00594	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09163736
M00594	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0798422
M00594	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08825582
M00594	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0815494
M00594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07899451
M00594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0830656
M00594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1201242
M00594	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1231586
M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08741699
M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0978842
M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08190584
M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0903917
M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07862875

M00594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0798422
M00594	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1270002
M00598	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.12759
M00598	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0882664
M00598	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.094439
M00598	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0938882
M00598	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0926804
M00598	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.095633
M00598	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1230639
M00598	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.1356887
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0855393
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1003824
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1063363
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0788941
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1226772
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0899509
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0955442
M00598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1455091
M00598	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0866078
M00598	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.088561
M00598	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0870619
M00598	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0793804
M00598	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08449675
M00598	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08559361
M00598	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0867367
M00598	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.09268
M00598	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1013368
M00598	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0926638
M00598	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2255819
M00598	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10743
M00598	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0974401
M00601	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1090752
M00601	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.1235982
M00601	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08578501
M00601	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1655826
M00601	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09124922
M00601	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09083794
M00601	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1045275
M00601	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1143209
M00601	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11106655
M00601	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1299928
M00601	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.0973371
M00604	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0971268
M00604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1014849
M00604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1072392
M00604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0979577
M00604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1026428
M00604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1464074
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0946476
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1064259

M00604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0867731
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1278617
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1356539
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0866176
M00604	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0864867
M00604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1474099
M00604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1337852
M00604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1243373
M00604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10859476
M00604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0997933
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0883693
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1075785
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10122376
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0796217
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1068178
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08348409
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1886228
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0869958
M00604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10486095
M00604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.12215
M00604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1026595
M00604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1366354
M00604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1407032
M00604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1001248
M00604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0987323
M00604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1596344
M00604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.132439
M00604	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1260371
M00604	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0890608
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0996887
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08836774
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1132582
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1216173
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1085867
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1546785
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1044888
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09245107
M00604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0945471
M00604	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0922198
M00604	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.103031
M00604	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0819744
M00605	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0845593
M00605	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0847012
M00605	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0871305
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0917491
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0808979
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1666038
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790622
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.091261
M00605	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1038092

M00605	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1222674
M00605	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1441319
M00605	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.087384
M00605	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0870088
M00605	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	-0.1072765
M00605	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1167205
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1086356
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0852701
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__	-0.0901323
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__	-0.0842651
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales.f__	-0.0858653
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales.f__	-0.101881
M00605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__	-0.0965722
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores.f__	-0.0972716
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.0919317
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.1419581
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1244937
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1460156
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.08964633
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0889181
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.10743261
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.1291118
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	-0.0951689
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__	-0.0882737
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__	-0.1368911
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.g__	-0.0795179
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.150422
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	0.1016518
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.2444905
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae.g__	-0.0918395
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae.g__	-0.0862003
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__	-0.0908991
M00605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__	0.23219356
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1184923
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1335615
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1024107
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1419909
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0871995
M00605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1943153
M00605	genus	k__Bacteria.p__Fusobacteriia.o__Fusobacteriales.f__	-0.0901592
M00605	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	-0.0930593
M00605	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.0874763
M00605	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1732716
M00605	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	-0.0882695
M00605	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.0805694
M00605	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.0825132
M00605	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.0865076
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.130862
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1064135
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1202997

M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0877119
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1002905
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20806636
M00605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0812998
M00605	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0855378
M00605	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1133785
M00606	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0925283
M00606	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1016291
M00606	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1424515
M00606	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1265494
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.078957
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1670064
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10592591
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0795419
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0749204
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0818036
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0835785
M00606	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09021642
M00606	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0816246
M00606	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.0769806
M00606	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0850858
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1239392
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.0812395
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0760761
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1652154
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1085321
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0983073
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1170304
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08846323
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08361578
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10974616
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0753927
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0895383
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0777193
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.148018
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2084896
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0805736
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.075707
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0885152
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.080106
M00606	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21301693
M00606	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1367331
M00606	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.083462
M00606	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.162438
M00606	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07944666
M00606	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08853389
M00606	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.07667322
M00606	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.080685
M00606	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1748748
M00606	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0826166

M00606	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0776759
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.0776409
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.081761
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0985258
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1144822
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.080004
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0750369
M00606	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17862438
M00606	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.125701
M00607	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1383383
M00607	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08359425
M00607	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08408833
M00607	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0912944
M00607	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0956379
M00607	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0820137
M00607	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.08461269
M00607	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteria.o__Sphingobact	0.12623907
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1392703
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0913694
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14956919
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0865446
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11197388
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0864584
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09645651
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0874949
M00607	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10914808
M00607	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.134513
M00607	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07938865
M00607	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11162418
M00607	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09477828
M00607	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0914335
M00607	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1086116
M00608	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11229836
M00608	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteria.o__Coriobacteria	0.08396559
M00608	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.12780613
M00608	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteria.o__Flavobacteriale	0.08681787
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.14881335
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17247282
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.10396035
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1499469
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1748484
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.10237112
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1167843
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09620917
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08636353
M00608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1157039
M00608	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08911986
M00608	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.12793812
M00608	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09094456
M00608	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12242919

M00608	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.0971144
M00608	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.14996384
M00608	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.14871991
M01105	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07758901
M01105	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.089753
M01105	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.07758901
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0815317
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0765532
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1105786
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0759637
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0784314
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07644787
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0765532
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0759637
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0939108
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0765532
M01105	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0921918
M01105	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0759637
M01105	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimo	-0.0765532
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1152217
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1420335
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.09022
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0914542
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1452071
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0828742
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0765532
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0982076
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0855864
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0879535
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0759637
M01105	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0818589
M01105	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0759637
M01105	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0842386
M01105	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.0765532
M01105	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1050712
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0791099
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0778436
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0759637
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0871875
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1152898
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0840331
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0778168
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0820759
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.088611
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0842175
M01105	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0924053
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0910691
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0759637
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07700812
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.077277

M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.10411039
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1102835
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0891947
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0922151
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0815296
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1325649
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1494839
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1143293
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0838407
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1145591
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07791448
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1209497
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1345522
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0823949
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0909796
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0923796
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0864663
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1444468
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1117457
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1131905
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1214279
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0826953
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1146918
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1013309
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0920679
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0897994
M01105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10407401
M01105	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0762501
M01105	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0940872
M01105	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1246392
M01105	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0873304
M01105	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1088991
M01105	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07596367
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.085465
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0827382
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1087924
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.092857
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0765532
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07596367
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0915231
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0955363
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08875665
M01105	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.105873
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08900186
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0795085
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0920679
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09452129

M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09453231
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0779545
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0813641
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.094432
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1350598
M01105	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.084258
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0944518
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.09319308
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1236274
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1154463
M01105	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0792704
M01105	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10238765
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07596367
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0889612
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.094432
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.134809
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09477157
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0867667
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1378209
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0812473
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1278295
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1016234
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0904442
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.07758901
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.080961
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0759637
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0897839
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08408299
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0765532
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0992194
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0878854
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0853212
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1087924
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07786651
M01105	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07596367
M01105	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0883935
M01105	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0763164
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.0898869
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1057966
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0765532
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0900592
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0861974
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1492861
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1088991
M01105	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.07596367
M01107	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2114082

M01107	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.284536
M01107	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.33378222
M01107	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.265869
M01107	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcales.f__	0.2014778
M01107	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	0.21624688
M01107	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.2271677
M01107	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	0.22533332
M01107	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.2038299
M01107	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.2392389
M01107	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.20575456
M01107	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.26213364
M01107	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales.f__	0.2016551
M01110	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.0834541
M01110	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09415247
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.1087181
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.2138778
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.2160104
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.15100439
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.09741662
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.11623246
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__	-0.0840457
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__	0.0815909
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	-0.0776439
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.0764747
M01110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.07307899
M01110	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.13073
M01110	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11870383
M01110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.10431093
M01110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1261533
M01110	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.09148357
M01110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.11250852
M01110	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.1704944
M01114	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.11512366
M01114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0922889
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.132966
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.13917422
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0901433
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.08546241
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.12663819
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.10022
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.13769381
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__	-0.0957121
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__	-0.0793078
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	0.07775994
M01114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.1197074
M01114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12753288
M01114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1236066
M01114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1135255
M01114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1281681
M01114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.11837077

M01114	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteraceae.g__Campylobacter	-0.0896346
M01114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.g__Pasteurella	-0.1394158
M01114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae.g__Pseudomonas	0.11269686
M01118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__Tissierellaceae.g__Tissierella	0.09620219
M01118	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichum	-0.0921214
M01118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae.g__Burkholderia	0.11196301
M01121	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__Bacteroidia	-0.0952016
M01121	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacteraceae.g__Turicibacter	-0.0968718
M01121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae.g__Lachnospira	-0.0976534
M01121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae.g__Lachnospira	-0.1019537
M01121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcus	-0.1012255
M01121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellaceae.g__Veillonella	0.08264725
M01121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellaceae.g__Veillonella	-0.0973763
M01121	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichum	0.10907288
M01121	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichum	0.10377448
M01121	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichum	-0.0863584
M01121	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae.g__Burkholderia	-0.0938752
M01121	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.g__Pasteurella	-0.1012155
M01121	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae.g__Pseudomonas	0.08587965
M01121	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutaceae.g__Opituta	-0.092911
M01123	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__Nitrososphaeraceae.g__Nitrososphaera	0.09130891
M01123	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae.g__Methanobacterium	-0.0921214
M01123	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae.g__Methanobacterium	-0.0801018
M01123	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae.g__Acidobacterium	0.09130891
M01123	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__Solibacteraceae.g__Solibacter	0.08406964
M01123	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomyces	0.10663247
M01123	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomyces	0.09806573
M01123	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae.g__Actinomyces	0.08359084
M01123	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriaceae.g__Bifidobacterium	-0.2052313
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__Bacteroidia	-0.088752
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__Bacteroidia	0.11221254
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__Bacteroidia	-0.0908055
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae.g__Cytophaga	-0.0847841
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Flavobacterium	0.08406964
M01123	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Flavobacterium	0.086384
M01123	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaerolineaceae.g__Anaerolinea	-0.0785717
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillus	-0.08704
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillus	-0.0885254
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paenibacillus	-0.0802151
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Planococcus	-0.0843193
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__Staphylococcus	-0.0947715
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriaceae.g__Carnobacterium	-0.1025886
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Enterococcus	-0.0932749
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__Leuconostoc	-0.0899466
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__Leuconostoc	-0.0889356
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus	-0.0864858
M01123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus	-0.1003384
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores.f__Calditerrivorellaceae.g__Calditerrivorella	-0.0971983
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__Clostridiales	-0.0838887
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__Clostridiales	-0.092717

M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0860931
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0912688
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0993825
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0879667
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09144104
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0830935
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0857941
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0821902
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0865451
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1355676
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1395785
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0858149
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0857329
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07828985
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1002407
M01123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09156193
M01123	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1520717
M01123	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1760013
M01123	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08381623
M01123	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1011691
M01123	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0857651
M01123	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08808223
M01123	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.0949221
M01123	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08922002
M01123	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0864721
M01123	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085609
M01123	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0887483
M01123	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0855791
M01123	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08242776
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0873049
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.082636
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1141143
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0895784
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0851909
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.079803
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0839204
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09130891
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0913791
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08084244
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.082636
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0853027
M01123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08132397
M01123	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1040841
M01124	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914972
M01124	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0840087
M01124	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1576524
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0902698
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0863279
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0903302
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1372535

M01124	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.16411889
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0815184
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0785306
M01124	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.0837738
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcae	-0.0845393
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1018998
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1112468
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.093702
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0820859
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.111406
M01124	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1162276
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0841927
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0853917
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.09899
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.096144
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.113824
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0790288
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0964199
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0976598
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0911941
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0805291
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0892909
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0822426
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0874289
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1558147
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1365691
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1330981
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0841175
M01124	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19498409
M01124	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.113711
M01124	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0800511
M01124	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1280301
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1019115
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0790846
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08361411
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0998581
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1069759
M01124	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0794205
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08648588
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0844301
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0841175
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1038111
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0813773
M01124	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1074493
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.0813773
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0888644
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0940062
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0901567
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0825952
M01124	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1823097

M01124	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0970396
M01124	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0799042
M01124	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0830116
M01124	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.098868
M01124	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1026834
M01124	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0856964
M01125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0810995
M01125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1314875
M01125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809149
M01125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0820728
M01125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1028249
M01125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1281906
M01125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1069839
M01125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.07973393
M01125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08904287
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0914175
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1107778
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14137185
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0836915
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1128239
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1128847
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11906245
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1213862
M01125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16153407
M01125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0775927
M01125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.122218
M01125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1084435
M01125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1424178
M01125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1545956
M01125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07781983
M01125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0889489
M01125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11396543
M01126	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1042403
M01126	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0835796
M01126	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.091022
M01126	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0879725
M01126	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0816519
M01126	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1093825
M01126	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0841621
M01126	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08602642
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.081171
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0962237
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11233826
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11244284
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.091985
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11235594
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1645256
M01126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16506322
M01126	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.129704
M01126	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.117957

M01126	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1149372
M01126	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1732116
M01126	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08604748
M01126	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0770375
M01126	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0788784
M01126	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1541875
M01128	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.115156
M01128	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1037976
M01128	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08127743
M01128	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0923533
M01128	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1189106
M01128	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.0964556
M01128	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1028187
M01128	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0966046
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0906846
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09520557
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1066771
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0894554
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09091238
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0978421
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08885197
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0873589
M01128	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1101199
M01128	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0943858
M01128	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1115256
M01128	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10633271
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0984971
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930045
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0962246
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1052159
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1149224
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1247775
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1000712
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0984971
M01128	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1049688
M01128	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08385935
M01128	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09154924
M01284	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1087504
M01284	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1074372
M01284	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0924436
M01284	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08602725
M01284	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1105731
M01284	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1412348
M01284	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0999752
M01284	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09747353
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1262767
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1944055
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0765098
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17304737
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09818339

M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14810435
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0932339
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1100271
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08184681
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08224112
M01284	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14511308
M01284	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.095718
M01284	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0910045
M01284	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1340018
M01284	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08138297
M01284	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.134507
M01284	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07899724
M01284	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11684115
M01284	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07846841
M01284	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10165687
M01284	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.07932435
M01284	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0811646
M01284	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1017568
M01299	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0906412
M01299	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08027558
M01299	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09026952
M01299	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1354286
M01299	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1385966
M01299	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1119897
M01299	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09402385
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1419729
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1374097
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17898348
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10724393
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08332746
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1361752
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0963077
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0977399
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13578064
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0967572
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08654678
M01299	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16679429
M01299	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0797634
M01299	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1648457
M01299	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1274912
M01299	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08957708
M01299	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13732279
M01301	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1223202
M01301	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1354483
M01301	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0958203
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1011986
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.17221
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1835462
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1016578
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0980092

M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12060935
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0982968
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09697572
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1525181
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0793336
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0860443
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1222246
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1911937
M01301	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19837767
M01301	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1035082
M01301	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.107635
M01301	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0933954
M01301	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1031525
M01301	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1807876
M01301	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2273749
M01301	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0843712
M01301	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0864074
M01301	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1179798
M01301	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13214586
M01301	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1452523
M01302	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1027401
M01302	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.08895984
M01302	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1360557
M01302	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1104809
M01302	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1008559
M01302	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07843723
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1414447
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1427795
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0816429
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15416931
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1018307
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09737925
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15343248
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0816859
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.094715
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13379316
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1510166
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0781576
M01302	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17717986
M01302	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1020474
M01302	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1019777
M01302	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1534877
M01302	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1677332
M01302	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07626419
M01302	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0790969
M01302	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13546453
M01302	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0901656
M01303	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1181327
M01303	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1969975
M01303	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1058494

M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.089453
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0892585
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0905245
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11133464
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13090884
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0998923
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12578799
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1689057
M01303	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13734039
M01303	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1653834
M01303	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1336101
M01303	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0960188
M01303	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0883925
M01303	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1659485
M01303	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08002025
M01303	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10229146
M01303	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13410696
M01336	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0831589
M01336	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1042002
M01336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0837161
M01336	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0829952
M01336	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0800739
M01336	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.086182
M01356	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0946709
M01356	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0824679
M01356	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09660344
M01356	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09119568
M01356	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08951348
M01356	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0903278
M01356	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08177743
M01356	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0814613
M01356	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08240241
M01356	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1010679
M01358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0890308
M01358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0868825
M01358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1040781
M01358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1002921
M01358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0827755
M01358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0799039
M01358	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1009966
M01358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11202988
M01361	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.35672113
M01361	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3111164
M01361	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.35672113
M01361	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.23028694
M01361	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2119118
M01361	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23166937
M01361	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2329562
M01361	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.23193
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.5647491

M01361	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2404591
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2281793
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.260044
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2206992
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23028694
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21124991
M01361	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2474819
M01361	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2128208
M01361	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3065179
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4087904
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2572943
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2781504
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.274535
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2431653
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.46029452
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2820334
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2896863
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2810884
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2082766
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21026521
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2648129
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.36175607
M01361	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2366939
M01361	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2962207
M01361	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.203901
M01361	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2386546
M01361	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.48989058
M01361	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2610838
M01361	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.3481452
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.33706149
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2440942
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32025967
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2212743
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2750663
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2751617
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2826671
M01361	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2186925
M01361	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.25423718
M01361	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.31309074
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.40526224
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2959365
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23979913
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2446234
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2798256
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.43670557
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3010778
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2816359
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2392983
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.35672113
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2259595

M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.43096806
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.26336139
M01361	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23646511
M01361	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2790727
M01365	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08603908
M01365	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10433839
M01365	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0971687
M01365	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08539158
M01365	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08394289
M01365	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09543872
M01365	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0900826
M01365	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08731579
M01365	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10388344
M01365	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08572047
M01365	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1009863
M01365	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1306333
M01365	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.083074
M01365	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0874852
M01408	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2280088
M01408	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2171434
M01408	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2593622
M01408	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2715201
M01408	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2423765
M01408	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2254866
M01408	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3392129
M01408	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1823157
M01408	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2118126
M01408	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.2119412
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3710363
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3174481
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5485762
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.331696
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29487667
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1821892
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2607884
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.20695
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.3092875
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4170746
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3759429
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2220397
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1752
M01408	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.38536095
M01408	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2595098
M01408	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2054602
M01408	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2518128
M01408	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1791012
M01408	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.241381
M01408	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2541326
M01408	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18228565
M01408	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33649975

M01408	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2868911
M01408	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.2455657
M01411	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.f__	-0.0844929
M01411	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0795309
M01411	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09977584
M01411	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.0883911
M01411	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.099415
M01411	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0935517
M01411	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.10922571
M01411	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__	-0.0931806
M01411	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__	-0.0914843
M01411	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.1143945
M01411	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	-0.0917695
M01411	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.0808408
M01411	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.083963
M01411	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10140591
M01411	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.0899505
M01411	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.0902449
M01411	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1037838
M01411	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0906536
M01411	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0809706
M01411	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__	-0.1170866
M01411	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.084437
M01411	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcales.f__	-0.0996153
M01412	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__	0.08096643
M01412	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.f__	-0.097453
M01412	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobiales.f__	-0.1316492
M01412	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__	0.08096643
M01412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0969803
M01412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.141391
M01412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.085691
M01412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08010029
M01412	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0809342
M01412	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0818427
M01412	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0891299
M01412	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0878947
M01412	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales.f__	-0.0895056
M01412	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.f__	-0.082603
M01412	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__	0.08073861
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0798725
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	-0.0863998
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	-0.0798066
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__	-0.0839089
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__	-0.0818924
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillales.f__	-0.088302
M01412	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconococcaceae.g__	-0.0781687
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores.f__	-0.0900907
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.1054524
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.08248138
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.09173162

M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08933638
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.121257
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.135399
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1081961
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.12065
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1370609
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1357486
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0843329
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0829001
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.083542
M01412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0880085
M01412	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1096156
M01412	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0799399
M01412	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1105686
M01412	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	0.10327948
M01412	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09164543
M01412	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08482567
M01412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0802674
M01412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884257
M01412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1494945
M01412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0885658
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.083587
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.0911031
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1255574
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0802265
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0791509
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0838343
M01412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	0.08096643
M01412	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	-0.1105636
M01412	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0869093
M01413	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2197265
M01413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.289515
M01413	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2035137
M01413	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3774672
M01413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3306423
M01413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3559899
M01413	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2948317
M01413	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__i	-0.2161369
M01413	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2221467
M01413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2458591
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2067293
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2408605
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2940404
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.376823
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.217708
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2390791
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31567169
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2082744
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3205528
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2391832

M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4726425
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2087653
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.212659
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.220837
M01413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.41971225
M01413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3185278
M01413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.4769051
M01413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.337394
M01413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.2093551
M01413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2357037
M01413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2260019
M01413	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2085029
M01413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2596794
M01413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2101521
M01413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.39788557
M01413	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2911424
M01416	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1217831
M01416	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.126558
M01416	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0865648
M01416	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1025685
M01416	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0998123
M01416	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0833098
M01416	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1201616
M01416	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1251024
M01416	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1181913
M01416	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1182962
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2022885
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1636001
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1193136
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10552017
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08563712
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1879946
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09997061
M01416	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18394894
M01416	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0862164
M01416	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1193085
M01416	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13353217
M01416	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09354072
M01416	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0902397
M01416	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0915669
M01416	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10350496
M01416	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1116043
M01416	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09138423
M01416	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.117187
M01416	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1131266
M01416	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.105418
M01416	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0883126
M01416	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14073109
M01417	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0924216
M01417	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0853805

M01417	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1039931
M01417	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08127854
M01417	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0842038
M01417	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1009241
M01417	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0810385
M01417	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1151856
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.0866953
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1120047
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2022775
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1627717
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08882103
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15344428
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0997015
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1192585
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1501921
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14556641
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1110376
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1027568
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0824471
M01417	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18318189
M01417	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.097602
M01417	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0851561
M01417	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.10338351
M01417	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1379802
M01417	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1050478
M01417	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0977971
M01417	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.084031
M01417	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0872906
M01417	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0920368
M01417	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14344087
M01417	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1015342
M01418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21083461
M01418	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1775526
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1765944
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1790084
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2006703
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1704201
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3413313
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2955575
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1718207
M01418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30200147
M01418	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2027529
M01418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1673211
M01418	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3212466
M01437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1016464
M01437	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1530592
M01437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.086748
M01437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0913816
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.0985432
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0868818

M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09269055
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08738156
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12707654
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16770477
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16955647
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1497452
M01437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17416488
M01437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0942318
M01437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0770117
M01437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0883042
M01437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08597855
M01437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0889498
M01437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12029989
M01437	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0841453
M01444	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07720789
M01444	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.078797
M01444	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.07720789
M01444	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07840459
M01444	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0827982
M01444	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1074125
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1642139
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0947857
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1069975
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0949953
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1147593
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0958823
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0771586
M01444	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.092958
M01444	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0941051
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1649404
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0821901
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1084387
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0782913
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0928109
M01444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0944646
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0964655
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0792378
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10196623
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1865639
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0859945
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3380847
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1803316
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0901553
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1057759
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0863949
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.078627
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1557639
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0800276
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0790993
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0827745

M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.1745071
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0925924
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0925621
M01444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0803408
M01444	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.084768
M01444	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0978441
M01444	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08577194
M01444	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	-0.0794181
M01444	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08878352
M01444	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0918349
M01444	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1775618
M01444	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0935819
M01444	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.122453
M01444	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0866072
M01444	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10684565
M01444	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.07899214
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0934836
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0814698
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0926168
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07552012
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0795077
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	-0.0808488
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	0.07720789
M01444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0783815
M01444	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0896633
M01471	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3096444
M01471	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29205687
M01471	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2367723
M01471	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.2697575
M01471	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcae	0.27444449
M01471	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.3417245
M01471	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2539983
M01471	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2420037
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2625015
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2865702
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3337466
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.30930092
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.242974
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24113259
M01471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2294453
M01471	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2435583
M01471	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	-0.2760629
M01471	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2810181
M01471	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.271257
M01471	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2907173
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3011308
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2435224
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2605284
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	-0.2888049
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2455464

M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.2417888
M01471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2589917
M01471	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f_	-0.3083527
M01471	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2484327
M01483	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.14289391
M01483	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0859181
M01483	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07974922
M01483	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08651317
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1212916
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08870047
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12017317
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.109956
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12568348
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09130374
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09258304
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08781113
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11966616
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.0844521
M01483	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1465116
M01483	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09759682
M01483	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1168613
M01483	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0922423
M01483	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1023626
M01483	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.13258273
M01483	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0907251
M01483	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1307772
M01493	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1121867
M01493	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1311827
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1090309
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0990063
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0841745
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1359581
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.082354
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0954222
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0992857
M01493	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1194259
M01493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0799513
M01493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.1045808
M01493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0882064
M01493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08007711
M01493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0895506
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1747452
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.167272
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3105967
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1885541
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1069002
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08118535
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13370791
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1920757
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0826543

M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0836503
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0832659
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1371261
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09670216
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2151956
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0976375
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0778039
M01493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20028677
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0786645
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1008951
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0812549
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1196399
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0863104
M01493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2071291
M01493	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0851063
M01493	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1060255
M01493	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0877404
M01493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09595767
M01493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09931223
M01493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08817378
M01493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1493915
M01493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0844511
M01493	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0986543
M01493	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0896005
M01493	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1295906
M01493	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.07781069
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0977975
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12618703
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1007357
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.143918
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0901999
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0938809
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1148755
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0883122
M01493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15421253
M01493	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0818241
M01493	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1029335
M01493	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1780886
M01494	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1247604
M01494	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1433424
M01494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1205071
M01494	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0997252
M01494	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1376101
M01494	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1132167
M01494	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0793391
M01495	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10360509
M01495	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.12015321
M01495	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.11244567
M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.15813497
M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.19470996

M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.10064506
M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09759683
M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0970146
M01495	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1467235
M01495	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.09689632
M01495	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1055645
M01495	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09628417
M01495	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.082475
M01495	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.1467604
M01496	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.28832258
M01496	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.4389983
M01496	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.6937846
M01496	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.382365
M01496	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.65938841
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3125402
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.368665
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.50882893
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.4382641
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.4436988
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.38315589
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2707478
M01496	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.34666234
M01496	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.6412979
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2805033
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.6159627
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.5560222
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.4949644
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.33482466
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.62372015
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.54642863
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.3032637
M01496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.3892817
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.40531905
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.37172434
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.47164229
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.36350679
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3646561
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.32674836
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.28454748
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3324944
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.4226744
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3081468
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.5345305
M01496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.45019066
M01496	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.2525553
M01496	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3494354
M01496	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39495117
M01496	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.6120475
M01496	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27578827
M01496	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.39136362

M01496	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4076986
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.39216924
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32577149
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.41586941
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.3329712
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.50561041
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.62094279
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5887671
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.38947139
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.34903597
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.28531042
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.34983736
M01496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.50347674
M01496	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2830425
M01496	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.29490608
M01496	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.36915773
M01496	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.26411555
M01496	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.26268134
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.3684268
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.28531042
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.44680668
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.42755046
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.34842774
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.64835602
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32545216
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31526345
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.46394509
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.59172576
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.60611556
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3563916
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.39563353
M01496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.47009257
M01496	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.514673
M01496	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.4166924
M01496	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.38560623
M01496	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.27872424
M01498	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0836392
M01498	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1041637
M01498	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1098505
M01498	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1340172
M01498	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07693511
M01498	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0810556
M01498	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0850385
M01498	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0791606
M01498	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07569643
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1470555
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1673306
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2371266
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.122204
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1004016

M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11255388
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0916314
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15461122
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0821004
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0867869
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1222726
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0969529
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1738545
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0774693
M01498	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27024804
M01498	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1246127
M01498	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0913047
M01498	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1353256
M01498	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.105153
M01498	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0894684
M01498	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08263241
M01498	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1849999
M01498	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0791844
M01498	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0812656
M01498	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0797524
M01498	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15038393
M01498	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1713594
M01500	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2524963
M01500	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2897748
M01500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.246145
M01500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28760659
M01500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2307792
M01500	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2870312
M01500	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3698189
M01504	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0805539
M01504	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0901794
M01504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0954475
M01504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1344258
M01504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1005758
M01504	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1097844
M01504	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0975904
M01504	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1102349
M01504	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0820456
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1914943
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1522499
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2159478
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1626292
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0828252
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13929669
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10911908
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19632401
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25227209
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0828399
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0788453
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1712263

M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21711732
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2157986
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0938052
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0913744
M01504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30233529
M01504	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1444163
M01504	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.132009
M01504	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1787185
M01504	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1382059
M01504	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07681761
M01504	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1018727
M01504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0911202
M01504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22755867
M01504	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1931923
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0798861
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08002293
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.102187
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1034395
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0799201
M01505	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1316536
M01505	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0796517
M01505	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1003514
M01505	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0799174
M01505	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0892272
M01505	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0880227
M01505	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1178531
M01505	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.1025459
M01505	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.092144
M01505	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0852154
M01505	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0776323
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2109145
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1405737
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12179669
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0882482
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16379501
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.07759869
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0948739
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09590762
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11114965
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.128208
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.082845
M01505	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14551221
M01505	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0811287
M01505	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0809497
M01505	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.168556
M01505	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09121031
M01505	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1034395
M01505	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09811783
M01505	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0877195
M01505	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08574023

M01505	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0915193
M01505	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1105264
M01505	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0999835
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1209513
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0791084
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0845386
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1070466
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0831938
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0833618
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08323423
M01505	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13024931
M01505	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0927792
M01508	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0790027
M01508	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1222877
M01508	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.091595
M01508	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0929878
M01508	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1537427
M01508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1361928
M01508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1015361
M01508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0916775
M01508	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0866324
M01508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0942731
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0886528
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1595064
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1615796
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2058948
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1787324
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1186649
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14110937
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09068807
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20759053
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09814149
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24723803
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0899328
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0857224
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1420753
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23769754
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2395207
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0797062
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1229574
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1099998
M01508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30802201
M01508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.0883237
M01508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1550696
M01508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1132683
M01508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1044262
M01508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.2019853
M01508	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0854161
M01508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0878343
M01508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1757982

M01508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0844854
M01508	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0948834
M01508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0786612
M01508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1089352
M01508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21794071
M01508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0846233
M01508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0844879
M01508	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2077979
M01510	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11139957
M01510	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09249426
M01510	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0816094
M01510	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0806817
M01510	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0810479
M01510	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.07556981
M01510	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0858683
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1225419
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1528961
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.107339
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08558994
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.110334
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0971102
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0804119
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1047571
M01510	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13938114
M01510	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0899343
M01510	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1615849
M01510	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.081958
M01510	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08712727
M01510	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1155545
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09287722
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0920678
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1117779
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0868635
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09957868
M01510	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09353122
M01510	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.137964
M01512	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1058447
M01512	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1049877
M01512	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12568487
M01512	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.08867
M01512	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1172932
M01512	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0795559
M01512	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1034247
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.087339
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1135478
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1579975
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0968493
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1144594
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0892179
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1137677

M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0857972
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0922607
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0799577
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1058846
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0831755
M01512	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1028396
M01512	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1214129
M01512	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0844525
M01512	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07975112
M01512	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0902209
M01512	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08972623
M01512	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1025604
M01512	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1402012
M01512	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.089888
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0965712
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0901697
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0893403
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0877124
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.105586
M01512	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.1126259
M01512	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0996671
M01515	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2456199
M01515	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21618444
M01515	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.3244621
M01515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3006111
M01515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2435148
M01515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29397455
M01515	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2412558
M01515	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.255583
M01515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24912419
M01515	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31094417
M01516	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19537319
M01516	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21440817
M01516	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1749365
M01516	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.185736
M01516	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.17450503
M01516	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20410566
M01516	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2418808
M01516	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18087173
M01516	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24541044
M01516	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.19537319
M01516	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.17319608
M01516	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.21296297
M01516	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23357902
M01516	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22382008
M01519	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1962014
M01519	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1710475
M01519	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20707886
M01527	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0897888
M01527	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1033783

M01527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1026198
M01527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1254842
M01527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0987358
M01527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08433194
M01527	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.082739
M01527	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0947109
M01527	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1576621
M01527	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0816997
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1312743
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1065113
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1012689
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0909177
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0788751
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08236653
M01527	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1007327
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0914212
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1017052
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1011742
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0874941
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0801625
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0868045
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0779195
M01527	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0890899
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1139228
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1709133
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.077671
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0817441
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1735932
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2001132
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1525585
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09667138
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0852303
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09379062
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18535865
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11752879
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23065964
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0791607
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0878552
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1089451
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0893329
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1234024
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1003188
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1483068
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22222076
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2175853
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0775126
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1025117
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0966282
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.119958
M01527	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26433037

M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1109573
M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1672759
M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1506526
M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0763213
M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.110294
M01527	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1641863
M01527	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0941253
M01527	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	0.08348029
M01527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.0926602
M01527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.1052724
M01527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.1493179
M01527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.1020891
M01527	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f	-0.095773
M01527	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaeriales.f	-0.0959293
M01527	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaeriales.f	-0.1113454
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales.f	-0.097092
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales.f	-0.0957219
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.1186181
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.1437036
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.095564
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.1039491
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.0840956
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f	-0.1046921
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f	0.26261393
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f	-0.097092
M01527	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f	-0.1086638
M01527	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f	-0.0873703
M01527	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f	-0.1381681
M01552	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f	-0.1389659
M01552	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	-0.1004937
M01552	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	0.07906622
M01552	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	0.10736437
M01552	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f	0.08323588
M01552	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	0.0805373
M01552	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f	-0.097537
M01553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f	-0.1551326
M01553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f	-0.0827343
M01553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f	-0.1064148
M01553	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f	-0.100928
M01553	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f	-0.144536
M01553	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f	-0.1333549
M01553	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	0.11968801
M01553	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	0.0879599
M01553	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	-0.0975878
M01553	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f	-0.0891631
M01553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f	0.11049444
M01553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f	0.09046503
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	-0.0911875
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	-0.0811676
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f	0.0818546

M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10233918
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.10737379
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1125089
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21049809
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1338383
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0841712
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08198674
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10016723
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09633942
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17041612
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.12846838
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0943724
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0881301
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0991045
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1372474
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0838315
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0862884
M01553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08579666
M01553	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1449775
M01553	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0961095
M01553	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08667487
M01553	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09912972
M01553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09264637
M01553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10195297
M01553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0893119
M01553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.15139472
M01553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0820612
M01553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0946991
M01553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0861996
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1054905
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1237581
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10102253
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10541783
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1125798
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1471421
M01553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09850011
M01553	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.13166941
M01553	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.08936
M01553	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.11894665
M01556	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1898917
M01556	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.201554
M01556	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2317295
M01556	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2093466
M01556	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2367573
M01556	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1982627
M01556	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1892421
M01556	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.214762
M01556	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2256435
M01556	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3001243
M01556	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2735585

M01556	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.193003
M01556	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17853904
M01556	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2929688
M01556	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17483156
M01556	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2250798
M01556	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.18778381
M01558	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera	0.08515967
M01558	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	0.08515967
M01558	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08062385
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0736007
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0826746
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0777986
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0763871
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.07463378
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.074872
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.0798402
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0736007
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0763871
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0736007
M01558	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0917254
M01558	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1119876
M01558	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0826974
M01558	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.0763871
M01558	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0736007
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0844303
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1783606
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1181169
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08647357
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07971599
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0786
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0987992
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0736007
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0960743
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.08062385
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0788095
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0968404
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0763871
M01558	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0808575
M01558	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0763871
M01558	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0814555
M01558	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07544568
M01558	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0736007
M01558	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08484904
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1090236
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1038947
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0796924
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.113035
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.0763871
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0885849
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0819972

M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0811497
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.0836198
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales	-0.1171937
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.08310902
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.0824723
M01558	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	0.07729725
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.0763871
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores	-0.0864444
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.158984
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	0.07390379
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.2154676
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.0808118
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.2765674
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.1219309
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.0759716
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.08058528
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.106062
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.15379889
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.08711862
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales	-0.0883499
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales	-0.0985382
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.073809
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1142065
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.0765967
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.1410594
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	0.0881547
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.1688261
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales	-0.0860747
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.1091057
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.0849562
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.0860776
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.0776318
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.0817485
M01558	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.20125372
M01558	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0735181
M01558	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0739183
M01558	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1028847
M01558	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0922916
M01558	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0775243
M01558	genus	k__Bacteria.p__Fusobacteriia.o__Fusobacteriales	0.08803227
M01558	genus	k__Bacteria.p__Fusobacteriia.o__Fusobacteriales	-0.0953571
M01558	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.083099
M01558	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.07638714
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.0816939
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0859755
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0736007
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.07638714
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0763871

M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08310018
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09244871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.09339787
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07757428
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085237
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1054719
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0852025
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0763805
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1464099
M01558	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0825516
M01558	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.084433
M01558	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08084071
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07638714
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0739621
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0770214
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.074859
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.081061
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0901491
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08515967
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0763871
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13946747
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0776683
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1104866
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M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0931685
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0771052
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0816939
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07945458
M01558	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07638714
M01558	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.084411
M01558	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0736007
M01558	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2233578
M01558	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.083099
M01558	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.07638714
M01561	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1025409
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.09076174
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0958621
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1413598
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.10776
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1251027
M01561	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1491032
M01561	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0880743
M01561	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.08021361
M01561	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1373114
M01561	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0821943
M01561	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0857861

M01561	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.09722797
M01561	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08803369
M01561	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08981419
M01563	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	0.24458768
M01563	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.24458768
M01563	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36694393
M01563	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.39839867
M01563	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22476147
M01563	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2517652
M01563	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2383628
M01563	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21807404
M01563	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.28649983
M01563	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.33355575
M01563	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.28506953
M01563	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2985581
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2591285
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2257148
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2352025
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3858043
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.263405
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2187566
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2583227
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2564227
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23443952
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2109754
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2128538
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2839182
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2204519
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2554343
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2401712
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2587666
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2859763
M01563	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.52394521
M01563	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20798897
M01563	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3243647
M01563	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2485429
M01563	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.22906791
M01563	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2641547
M01563	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2612966
M01563	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.29160991
M01563	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.26219991
M01563	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.39839867
M01563	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26126699
M01563	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2165862
M01563	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.33938128
M01563	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2631985
M01563	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2380094
M01563	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.24458768
M01563	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36778198
M01563	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2101226

M01563	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.247007
M01564	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0870902
M01564	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1046148
M01564	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10319898
M01564	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0839453
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.0900674
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.0843183
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08628794
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11841475
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10538478
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1028364
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12899283
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.085485
M01564	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13078471
M01564	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0939005
M01564	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0889733
M01564	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.11021125
M01564	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09368814
M01564	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08079455
M01564	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11655895
M01564	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.09305051
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09098431
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09298544
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08888713
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08891947
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13162249
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09022574
M01564	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09846728
M01566	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.20776327
M01566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25610182
M01566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26601655
M01566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2444516
M01566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2372224
M01566	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21696358
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17341448
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18946629
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24674821
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17496557
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1846247
M01566	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.19813637
M01566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.22384112
M01566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25287415
M01566	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1666286
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1843751
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19295614
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27627549
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2302786
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2422828
M01566	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22361918
M01566	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1715689

M01566	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.25387911
M01566	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.26601655
M01566	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23812387
M01566	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28469564
M01566	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16491504
M01566	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20479186
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.2224387
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18985487
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16796854
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.26827806
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.16859938
M01566	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17790582
M01566	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2953138
M01566	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__D	0.20270784
M01572	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0968482
M01572	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0886729
M01572	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1661128
M01572	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0770562
M01572	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0960805
M01572	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0945608
M01572	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turicib	0.07737306
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1396134
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1736773
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1356852
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07473629
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12706566
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19421636
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0793503
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.080602
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1526044
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17589201
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1768865
M01572	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29453402
M01572	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1538603
M01572	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0989966
M01572	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1338678
M01572	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07695464
M01572	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1229995
M01572	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09641099
M01572	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1048723
M01572	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26831599
M01572	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1318088
M01573	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07995824
M01573	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.090935
M01573	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.07995824
M01573	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1188632
M01573	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2211318
M01573	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0826149
M01573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1182394
M01573	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09239983

M01573	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0910305
M01573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0905541
M01573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0950405
M01573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0777457
M01573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0809368
M01573	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0780618
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1017323
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1101895
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0887136
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09115473
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08021131
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0852785
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1109333
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1549069
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0859719
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0798406
M01573	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1436963
M01573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1540251
M01573	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1534538
M01573	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	0.09070785
M01573	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08312093
M01573	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1315768
M01573	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0908354
M01573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08352884
M01573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0762805
M01573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0818312
M01573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.07995824
M01573	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1134132
M01573	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1121994
M01574	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2705213
M01574	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.22913
M01574	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.24684265
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2115853
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3376949
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6163862
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3351473
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22797538
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20644382
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1831366
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1924132
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.178149
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1922186
M01574	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.42705352
M01574	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2168721
M01574	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2081651
M01574	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1900415
M01574	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1911176
M01574	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29528081
M01574	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.193104
M01576	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.197711

M01576	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2287613
M01576	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1916835
M01576	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1902695
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3623927
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2534254
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22659187
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21410022
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2468815
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1900818
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19766924
M01576	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2510945
M01576	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1912974
M01576	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.2211657
M01576	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2166733
M01576	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1799603
M01576	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18815661
M01576	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29525073
M01584	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.20472749
M01584	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2186229
M01584	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.1942086
M01584	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.18589769
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23071994
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18686094
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18214739
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18583618
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22468573
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19940191
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.32699919
M01584	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2470459
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.210191
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2046515
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2128383
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.20976853
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.19343777
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.36127581
M01584	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.253307
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.1936935
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18175252
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.198517
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.29856505
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.35160943
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2020172
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21384477
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.24583985
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.32417947
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19081522
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1833323
M01584	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21956277
M01584	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18469185
M01584	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24097938

M01584	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3442457
M01584	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21543983
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2422069
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21692693
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20680867
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.225158
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29880992
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24367488
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2667973
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21312315
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19880891
M01584	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.18809605
M01584	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.2481258
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2074465
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17226318
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28204884
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19185742
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.26433236
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3257978
M01584	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23705358
M01584	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.2539168
M01585	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0853195
M01585	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1170516
M01585	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0782744
M01585	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0781595
M01585	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1064416
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1012844
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1669076
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1332117
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0818268
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1164955
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10411924
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0989255
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0763506
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08867866
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.163568
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1020447
M01585	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15445615
M01585	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.080071
M01585	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0859279
M01585	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1582045
M01585	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.084456
M01585	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1618742
M01585	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0931581
M01585	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0994323
M01585	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10726552
M01586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0914235
M01586	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0961085
M01586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.08958034
M01586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10182299

M01586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.09057653
M01586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09580849
M01586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08953853
M01586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0906564
M01586	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.09195694
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0892699
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.131118
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1001355
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089342
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934822
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.126853
M01587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08513425
M01587	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0862914
M01587	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1189617
M01587	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0816529
M01587	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0943943
M01587	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1356427
M01587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1220538
M01587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1013376
M01587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turcib	0.08997418
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0803749
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0853667
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09694497
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1100377
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09803363
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1052618
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0816869
M01587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11767734
M01587	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1140984
M01587	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1150615
M01587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1360969
M01587	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1014871
M01587	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1056708
M01587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0915733
M01587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1275828
M01587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1404754
M01587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11214337
M01589	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1203756
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1127996
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0917367
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1344665
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.102712
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0783354
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.115181
M01589	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1026654
M01589	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1015033
M01589	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1388948
M01589	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0784948
M01589	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0986038
M01589	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0875994

M01589	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0806644
M01589	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0996956
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1399621
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0887266
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0856062
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1283783
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.120018
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08221772
M01589	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08049839
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0944323
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08556944
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12148757
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0838081
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12518104
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1018843
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0909886
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0842621
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10770068
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1789456
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0942261
M01589	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19061412
M01589	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0810761
M01589	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1135346
M01589	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1236801
M01589	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.111409
M01589	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0845755
M01589	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0873528
M01589	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08969413
M01589	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2037332
M01589	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.095712
M01589	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0928599
M01589	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0972739
M01589	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0986738
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0819177
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09350681
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07940909
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0979021
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1103694
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1076383
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0959742
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18317588
M01589	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0819177
M01589	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1043291
M01589	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1213868
M01589	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0912088
M01591	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0944078
M01591	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1019948
M01591	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08153188
M01591	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0998696
M01591	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1113474

M01591	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0995551
M01591	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0935221
M01591	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08630863
M01591	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08153782
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0950225
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0809111
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13689055
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09187332
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10501329
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1063045
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08547664
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08090614
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1170262
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08441252
M01591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17512698
M01591	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1109246
M01591	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.110291
M01591	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0832595
M01591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.112862
M01591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13640975
M01594	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.126629
M01594	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1067735
M01594	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0885091
M01594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0932478
M01594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0999091
M01594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1082297
M01594	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.102858
M01594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1038307
M01594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1448068
M01594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0972371
M01594	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0989581
M01594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1096807
M01594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0971169
M01594	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1134417
M01594	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1104087
M01594	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1143082
M01594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09228374
M01594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10149474
M01594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0970447
M01594	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0904705
M01594	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1097869
M01594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1069498
M01594	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0949114
M01594	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1236933
M01594	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0909119
M01603	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0869519
M01603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21700139
M01603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08130772
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0907929
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1427648

M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0816354
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0814028
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.109906
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1271687
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1042314
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08320612
M01603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10265934
M01603	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1028659
M01603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09384026
M01603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0795047
M01604	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0797506
M01604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13239575
M01604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.13019245
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11735453
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11803339
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08986385
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0903448
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11117173
M01604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.07958596
M01604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0894417
M01605	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2744053
M01605	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3834405
M01605	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2916158
M01605	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2118236
M01605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2214295
M01605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2086297
M01605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2048646
M01605	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1939091
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2862383
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2129049
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2111491
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4401363
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3284052
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2059508
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25001106
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2404181
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21069222
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2679229
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2247868
M01605	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.31534342
M01605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2073511
M01605	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2989754
M01605	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2084312
M01605	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2305171
M01605	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2223532
M01605	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23090183
M01605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2053291
M01605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.307086
M01605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2052314
M01605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2061007

M01605	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25577198
M01605	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2096439
M01605	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.5361843
M01638	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1145107
M01638	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0992078
M01638	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1253607
M01638	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1771983
M01638	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0952676
M01638	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0825088
M01638	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0951596
M01638	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.091951
M01638	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.07735
M01638	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.1098902
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08407561
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11905071
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11688101
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.088526
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11357768
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1078246
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13183595
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17767192
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1013541
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0982313
M01638	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14590751
M01638	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0833239
M01638	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0826319
M01638	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0837798
M01638	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.112249
M01638	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14702589
M01638	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1392375
M01642	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0955252
M01642	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.09909354
M01642	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0912598
M01642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08561018
M01642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09202043
M01642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08273668
M01642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0879883
M01642	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.090444
M01642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0917315
M01643	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1000074
M01643	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0935854
M01643	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1300417
M01643	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09087103
M01643	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11474214
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0847286
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0819594
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11289289
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15461076
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1256988
M01643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11069347

M01643	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1141933
M01643	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0994413
M01643	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0858833
M01643	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.13161704
M01643	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0998065
M01643	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales	0.09852135
M01644	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0869804
M01644	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.1181116
M01644	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0907668
M01644	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0904216
M01644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcales.f__Staphylococcales	-0.0829952
M01644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocales.f__Leuconostocales	-0.0903733
M01644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales.f__Streptococcales	-0.104062
M01644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales.f__Streptococcales	-0.0842201
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.19463095
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__Dehalobacteriales	0.12774647
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	-0.0876463
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	-0.1145121
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	-0.0782837
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	-0.0969794
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriales	-0.0854092
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriales	-0.0998816
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriales	-0.1113816
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriales	-0.1043682
M01644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales	-0.0784191
M01644	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.07676322
M01644	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0797715
M01644	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.080642
M01644	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.0960529
M01644	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0785714
M01645	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	0.08658997
M01645	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	0.07892952
M01645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.12026883
M01645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriales	0.08508062
M01645	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.10915512
M01645	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.09965642
M01645	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocyclales	0.08604156
M01645	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0819094
M01645	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	-0.0992059
M01648	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriales	-0.0723073
M01648	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanobacteriales.f__Methanobacteriales	-0.085915
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.1352758
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0789315
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0789315
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0789315
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.08413535
M01648	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.08640843
M01648	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1060531
M01648	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1600985
M01648	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillales.f__Paenibacillales	-0.0789315

M01648	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09226315
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1046389
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1471869
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1676894
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0899767
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0875177
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1092141
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13351503
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0789315
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12935784
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0844104
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1037156
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09627292
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1257387
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0722276
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1057487
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16501153
M01648	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0789315
M01648	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0978419
M01648	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1182153
M01648	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1410275
M01648	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08310217
M01648	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0748494
M01648	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0775
M01648	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09279079
M01648	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1152975
M01648	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07564273
M01648	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0789315
M01648	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0809351
M01648	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0789315
M01648	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08984891
M01648	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12042715
M01648	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.0928981
M01648	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0789315
M01648	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0787381
M01648	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0789315
M01648	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0783381
M01648	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0916593
M01649	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0829649
M01649	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.122263
M01649	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0829941
M01649	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0869721
M01649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.08326552
M01649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1013874
M01649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1137315
M01649	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0810055
M01649	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1153082
M01649	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0810501
M01649	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08469645
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1012344

M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1028474
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0796583
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14109005
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07777041
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09865732
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1054342
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10310559
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1233128
M01649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15497336
M01649	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0889736
M01649	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1242289
M01649	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1179561
M01649	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1255474
M01649	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1552454
M01649	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08168263
M01649	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07828553
M01649	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10729928
M01651	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09542833
M01651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0810521
M01651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.12036531
M01651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08021136
M01651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0836285
M01651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0865901
M01651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0827191
M01651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.2444412
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1381648
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0871537
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0944155
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1522044
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.081433
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16496761
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.091246
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08039879
M01651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1704536
M01651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1043565
M01651	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1043504
M01651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1846192
M01651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08335572
M01651	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0900701
M01651	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.10679197
M01669	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0856729
M01669	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.098573
M01669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09848349
M01669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08134687
M01669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09414597
M01669	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.0929114
M01669	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09014864
M01669	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.11777538
M01669	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09326017
M01768	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.17326518

M01768	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1988054
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.234046
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4547549
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2908585
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16312855
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1669893
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2067378
M01768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1746054
M01768	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1667394
M01768	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1657165
M01768	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2043615
M01768	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1815423
M01768	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2421047
M01768	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1983983
M01806	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256036
M01806	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1698546
M01806	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.1666608
M01806	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18425793
M01806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2365754
M01806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2119629
M01806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1712605
M01806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1935716
M01806	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1734999
M01806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1743964
M01806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2249631
M01806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1669717
M01806	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.19579209
M01827	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0891184
M01827	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1382137
M01827	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.085934
M01827	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.11240204
M01827	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.114719
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1364717
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1180406
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1376091
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1176932
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1119489
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12463669
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11171557
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09358143
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11980909
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09604016
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13440869
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0999526
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0844301
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16678303
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1512476
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0961748
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0928505
M01827	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1522027

M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0977022
M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1169111
M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.093633
M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1284941
M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.094502
M01827	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1639423
M01827	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.08893985
M01827	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1509153
M01827	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaeriales.f__Desulfosphaeriales	-0.1605782
M01827	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	0.08451965
M01827	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales	0.10617543
M01827	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiales	-0.1315564
M01868	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0950579
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.1041193
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.1187047
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.11193195
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.10197565
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococciales	0.08317961
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococciales	-0.1182975
M01868	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.15132661
M01868	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0942273
M01868	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0888724
M01868	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.08544888
M01868	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.0773734
M01868	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1583985
M01868	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiales	-0.081719
M01898	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.1358278
M01898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.08360537
M01898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.091598
M01898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae	-0.1058064
M01898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.09470163
M01898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococciales	-0.0968702
M01898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.08789424
M01898	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1185294
M01898	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1293217
M01898	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1064691
M01898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1092048
M01898	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0782422
M01899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.21232876
M01899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.3224084
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.4961225
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.7250666
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.2745953
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.24795823
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.20409451
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.32697009
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococciales	-0.2447182
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococciales	-0.2393879
M01899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.40168251
M01899	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.35262915

M01899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.3714943
M01899	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2395679
M01899	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3864958
M02125	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1252271
M02125	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0804894
M02125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1067944
M02125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10769225
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1552247
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1783777
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.204285
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0992212
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11197896
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11825561
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08054142
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1009904
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19192012
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0983737
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10213984
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08710697
M02125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26015134
M02125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0812484
M02125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.124487
M02125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1503226
M02125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0778383
M02125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15879683
M02125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10201851
M02125	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1429748
M02132	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0998924
M02132	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851239
M02132	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09846971
M02132	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09554946
M02132	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0867591
M02132	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0914772
M02132	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.0801161
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.149546
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0883109
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09433817
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08640178
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0985463
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07933698
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1060297
M02132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11661376
M02132	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0888041
M02132	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1278738
M02132	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.0843464
M02132	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1270915
M02132	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1169301
M02134	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2103242
M02134	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20935039
M02134	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2252291

M02134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23054308
M02134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.25334903
M02134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2640876
M02134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24519683
M02134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.31504855
M02134	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21629145
M02134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.20102244
M02137	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.090045
M02137	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.14887445
M02137	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08554137
M02137	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.13510047
M02137	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07980704
M02137	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08870949
M02137	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.10251469
M02137	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.0882397
M02137	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09460589
M02137	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09151164
M02137	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12970412
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0785461
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12271496
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08469923
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09204436
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10944758
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08287542
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11662263
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10752416
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1182224
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09670412
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08534107
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08914532
M02137	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0890253
M02137	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.07900339
M02137	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0819795
M02137	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0814593
M02137	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.07869943
M02137	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09218688
M02137	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0857901
M02137	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09403027
M02137	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08212096
M02137	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14525468
M02137	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0996835
M02137	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.09836996
M02150	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1263963
M02150	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.102583
M02150	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1149102
M02150	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1016636
M02150	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1027124
M02150	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0844203
M02150	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0937267
M02150	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1315156

M02150	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1164504
M02150	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.103816
M02150	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1023084
M02150	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0874151
M02150	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0981269
M02150	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1424638
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0888833
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1341255
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0946572
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1066128
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0878888
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1007216
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.0968436
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.0837757
M02150	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibac	-0.0819088
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1087049
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1503695
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1390808
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.089806
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07739
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0945941
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08917374
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0783102
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0932157
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09409141
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1027269
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1190652
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1139844
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1028761
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1107943
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08978741
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1401095
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0913452
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0829731
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0849384
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1324166
M02150	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0871512
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0993521
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0991883
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0808909
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1279739
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1204619
M02150	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1895461
M02150	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0925365
M02150	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.07751259
M02150	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1207256
M02150	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1400007
M02150	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1198082
M02150	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0895575
M02150	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.120903

M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0876427
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1060656
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0957143
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.137718
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1025563
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0901531
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1173125
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0985418
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0896993
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0936803
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1060656
M02150	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1195586
M02150	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.0841056
M02150	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.095665
M02150	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1079428
M02183	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1047019
M02183	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1075649
M02183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0945769
M02183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1545604
M02183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0794748
M02183	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0998828
M02183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0799858
M02183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08853828
M02183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0764691
M02183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0781527
M02183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.079186
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0829948
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1427237
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09356435
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09265015
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08467491
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1197564
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0909259
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1577844
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0893296
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0896669
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1379481
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1212074
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0894966
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0939575
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0985108
M02183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08745105
M02183	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0905505
M02183	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1203553
M02183	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	0.10878641
M02183	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08906639
M02183	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08086938
M02183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0798084
M02183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08427658
M02183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1559755

M02183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09100048
M02183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0860451
M02183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1358107
M02183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0974821
M02183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10271943
M02183	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0901903
M02342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1041698
M02342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.092103
M02342	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0851055
M02342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1006828
M02734	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09244472
M02734	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09156636
M02734	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12014027
M02734	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12263957
M02734	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11537651
M02734	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1049973
M02734	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1075519
M02734	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12086882
M02734	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08637762
M02829	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1192483
M02829	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.114441
M02829	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0830723
M02829	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1646214
M02829	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0862893
M02829	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08094092
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1270813
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1405219
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1222663
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1429028
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0885693
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11357704
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09444965
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0863204
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13383285
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1003306
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.126789
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13186888
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1374063
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.100645
M02829	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23308572
M02829	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.080746
M02829	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1330661
M02829	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.086414
M02829	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08210839
M02829	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1563594
M02829	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17376901
M02829	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1451726
M02959	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2182639
M02959	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2568881
M02959	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1957337

M02959	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2212691
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.21390134
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.240549
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2469973
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21513811
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25140511
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1947144
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.202016
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2127285
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21998522
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.23879221
M02959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23157205
M02959	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.20635917
M02959	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.31380714
M02959	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2532164
M02959	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24800297
M02959	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23332617
M02959	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2252756
M02959	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20757966
M02959	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2001247
M02959	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1975763
M03127	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1061116
M03127	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1003184
M03127	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1058278
M03127	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09523481
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1184821
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1314926
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874342
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1125699
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.107215
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.107215
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923994
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0824156
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1209804
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11998794
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.107215
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.082708
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09303517
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874342
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0824156
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0830256
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874342
M03127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0813374
M03127	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0824156
M03127	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0874342
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.098323
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1419378
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0857275
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09725093
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.113072

M03127	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0874342
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0939605
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09523481
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1132355
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0832659
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08559199
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0824156
M03127	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0885032
M03127	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.0824156
M03127	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0859647
M03127	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.07890098
M03127	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.0874342
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0944874
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1216019
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.104994
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0824156
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.107215
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0836594
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0924174
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.080252
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.0853093
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0915611
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1217899
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0803816
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.0904166
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1170671
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1089453
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1177956
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.148902
M03127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1075042
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1229698
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0824156
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1084859
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1061174
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0956425
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1079061
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1222344
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0911347
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0811417
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1318247
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1243304
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1239264
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0962307
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1033331
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.107215
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0825761
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0861748
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0903275
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0856152
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1217148

M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0870647
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.088429
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1033362
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1185122
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1562424
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0782456
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0994648
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0855178
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.170146
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2103757
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0981627
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0991016
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0950311
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0855587
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1019294
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0881301
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1028008
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0969359
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20268263
M03127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.107215
M03127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0874868
M03127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1342378
M03127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1027782
M03127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1257226
M03127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1541141
M03127	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1324637
M03127	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0844899
M03127	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.08241563
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1277936
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1021849
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0784345
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0994264
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0874342
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08241563
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0909412
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1272701
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1278814
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1049741
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0781701
M03127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0792621
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08954131
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1071108
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1028008
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0876395
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0835623
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0892049
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0966528

M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.095115
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1164233
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0852066
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.1160422
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1075705
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1137112
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1147547
M03127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.107215
M03127	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1074136
M03127	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1151125
M03127	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0870881
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08241563
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0885525
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1160422
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.107215
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0966285
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1217082
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0812757
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0940155
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1448532
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1004606
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0944614
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0824634
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0806042
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0945808
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0880801
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1148092
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0981494
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.098759
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0824156
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0983146
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19305304
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0910159
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0874342
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1048116
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.101437
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1265135
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0798147
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1017978
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0784345
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08837352
M03127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08241563
M03127	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.107215
M03127	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.107215
M03127	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1014513
M03127	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0792114

M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0993106
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.1190533
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0874342
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1119557
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1179888
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0986052
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0844899
M03127	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.08241563
M03141	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11320244
M03141	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1236397
M03141	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.11783258
M03141	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09424075
M03141	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08315418
M03141	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.13077391
M03141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1230384
M03141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0807088
M03141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07911999
M03141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1593265
M03141	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10047204
M03141	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.096243
M03141	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15087793
M03147	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1132472
M03147	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1106422
M03147	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0804294
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0950668
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0842764
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1532221
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0888969
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0881491
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0881491
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0957721
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07903292
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0881491
M03147	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1131203
M03147	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1066997
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1207877
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1049336
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0796667
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0933836
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__(	-0.1032721
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.11369
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0873967
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08008452
M03147	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__(	-0.0805563
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1422022
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0881491
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0839509
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0789551
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1267064
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.0903201

M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1013957
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1172296
M03147	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1464134
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0923483
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0796664
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0947906
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1590233
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1247831
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.15502
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0806887
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0881491
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0887042
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12642135
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0802021
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10920572
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0933203
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0891261
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0817767
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.103414
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0983815
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1097657
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1410092
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1472804
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2523836
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0865032
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1018528
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1050886
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19190715
M03147	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0881491
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1044859
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0813653
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.112806
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.108111
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0952323
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1460212
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0890293
M03147	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1742577
M03147	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1011832
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1286972
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0822372
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0803369
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07999162
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1283416
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1110025
M03147	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0887617
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873923
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.082054
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0822682
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1705336
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0794551

M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1181274
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0935619
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1000188
M03147	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0881491
M03147	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0863043
M03147	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0919816
M03147	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08351742
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0794551
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0881491
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0809638
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0822464
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0870304
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1471758
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0986505
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1157791
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0825193
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0886979
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15070275
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0910917
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0891121
M03147	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0794605
M03147	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0881491
M03147	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0881491
M03147	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0960022
M03147	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0797236
M03147	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.120962
M03147	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1075967
M03147	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1134189
M03147	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1023247
M03155	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0866186
M03155	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1669351
M03155	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0815369
M03155	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0866599
M03155	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0915898
M03155	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0791902
M03155	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08274855
M03155	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0959648
M03155	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08684889
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1131211
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1162898
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0936335
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1030587
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1132242
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0837019
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1456434
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1675911
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1648193
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.095483
M03155	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1398304
M03155	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1076377

M03155	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1689495
M03155	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1388574
M03155	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.0916546
M03155	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacterales.f__Caulobacteraceae	-0.0923472
M03155	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiaceae	-0.0919567
M03155	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocyclaceae	-0.0898311
M03155	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0855963
M03155	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0811932
M03155	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	0.12552165
M03155	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutaceae	-0.0899022
M04970	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__Nitrososphaeraceae	0.18662352
M04970	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae	-0.1844168
M04970	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae	0.18662352
M04970	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__Solibacteraceae	0.18349864
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.2006942
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.214919
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1743915
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1876153
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.23173429
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.176674
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.18206751
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1830333
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.18345447
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.199709
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1743915
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.176674
M04970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1743915
M04970	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__Solirubrobacteraceae	-0.176674
M04970	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales.f__Fimbriimonadaceae	-0.1743915
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1980291
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.19695606
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.2528847
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1990826
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.2218136
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae	-0.1743915
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae	0.22613514
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	0.18349864
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	0.19098905
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospiraceae	-0.176674
M04970	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospiraceae	-0.1820201
M04970	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Parachlamydiaceae	-0.176674
M04970	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaerolineaceae	-0.1840121
M04970	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__Nostocaceae	0.17659402
M04970	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__Nostocaceae	-0.1743915
M04970	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__Fibrobacteraceae	0.17787432
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.176674
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1745339
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.2279469
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1858431
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae	-0.178789

M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1897309
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.1911258
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteri	-0.2146773
M04970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacill	-0.1886402
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobi	-0.176674
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2664769
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.19139864
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.2159248
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteri	-0.2259338
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteri	-0.2063238
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.23134723
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.1973933
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1916035
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1772524
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1829986
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1953344
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococci	-0.2593299
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1717402
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.2849171
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.1852314
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.2132904
M04970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.2139253
M04970	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1861365
M04970	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.2506728
M04970	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteri	-0.2500776
M04970	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	-0.1882082
M04970	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Pirellulales	0.17667374
M04970	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.23652024
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.23056807
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.1875094
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.1743915
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.17667374
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.18586975
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.189054
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.1969083
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.1825466
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.1781076
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	0.23173429
M04970	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.1852401
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.18106076
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.18367634
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.1873767
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.21790933
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2311947
M04970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.1912045

M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17667374
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1879935
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1790754
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22394121
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.186298
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2054442
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20407426
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.18662352
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2226145
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.176674
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22913579
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1743915
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2005445
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18192615
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17667374
M04970	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1856001
M04970	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3033776
M04970	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1753754
M04970	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2008767
M04970	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.207639
M04970	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2152208
M04970	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1743915
M04970	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2033283
M04970	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17667374
M05086	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08160511
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.117326
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1124185
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1089659
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848278
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848278
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848278
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848278
M05086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0920981
M05086	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1094435
M05086	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0935471
M05086	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0872295
M05086	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08160511
M05086	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08955134
M05086	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0848278
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1225637
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.100782
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0994905
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0866621
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0957099
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1037404
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0888141
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0848278
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1149252
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0898432

M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0871398
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.119098
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0874044
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0869853
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0897327
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0912032
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0814342
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.086507
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0993588
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1615403
M05086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.0848278
M05086	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0870339
M05086	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0912488
M05086	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09187868
M05086	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10299803
M05086	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.089362
M05086	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0848278
M05086	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1105686
M05086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.0848278
M05086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09166122
M05086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0935675
M05086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.114629
M05086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1150304
M05086	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	-0.1101185
M05086	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0848278
M05086	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0848278
M05086	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0959417
M05086	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0889218
M06104	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08326964
M06104	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0922202
M06104	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09959069
M06104	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10296693
M06104	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1104028
M06104	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.093764
M06104	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12271215
M06104	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1355648
M06104	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10313934
M06104	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08476227
M06104	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09468649
M06104	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08989725
M06104	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09310033
M06146	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0817081
M06146	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09060672
M06146	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0882927
M06146	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1085364
M06146	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1415006
M06146	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1106182
M06146	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11090856
M06146	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.08834301
M06146	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.1007118

M06146	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10566901
M06146	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07884959
M06146	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1025656
M06146	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10201829
M06146	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1418816
M06146	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f_	0.08821324
M12032	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30202348
M12032	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2114704
M12032	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.23575951
M12032	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2214637
M12032	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2681647
M12032	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.256475
M12032	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3373566
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2286726
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2246996
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2361842
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2232835
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.246478
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2069659
M12032	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2594922
M12032	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21494149
M12032	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22342093
M12032	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2735722
M12032	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2250646
M12032	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.2616222
M12032	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f_	-0.2482564
M12110	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.32549013
M12110	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30819923
M12110	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31386606
M12110	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26242917
M12110	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2555775
M12110	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.30504673
M12110	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24564097
M12110	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.3242296
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.23363578
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.26683162
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.31989095
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2700972
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.27880397
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2710575
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.25653128
M12110	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.23045128
M12110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2532633
M12110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30379218
M12110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.26450723
M12110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2666895
M12110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23384258
M12110	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f_	-0.2499882
M12110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.30192228
M12110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29199281

M12110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2525859
M12110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.28963214
M12110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.2912893
M12110	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.34522572
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.28275115
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.2684378
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.35413528
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25529251
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25488977
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26317701
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35227682
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2684378
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.29705434
M12110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.31893957
M12110	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.24958515
M12115	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2045065
M12115	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.23280198
M12115	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.213851
M12115	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1646718
M12115	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1990638
M12115	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1677386
M12115	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1634621
M12115	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2317223
M12115	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1642384
M12115	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2435612
M12115	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1725051
M12115	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.21654211
M12115	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2209948
M12115	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2508179
M12129	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2208263
M12129	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2262147
M12129	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2303206
M12129	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28421264
M12129	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.32490937
M12129	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.24283
M12129	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.217453
M12129	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.203753
M12129	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.4245674
M12129	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2498414
M12129	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.4046633
M12129	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19784044
M12129	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2534776
M12129	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2387193
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33593166
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2651111
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21938411
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2469109
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21524686
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3542485
M12129	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21425327

M12129	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.251673
M12129	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacterales.f__	0.21171178
M12129	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.21768493
M12129	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.20981895
M12129	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	0.3053072
M12129	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales.f__	0.24919226
M12129	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales.f__	0.23638364
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales.f__	0.24616722
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.32499978
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.22992465
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.34035468
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.2491706
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.26791154
M12129	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__	0.29535669
M12129	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	0.24990704
M12142	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0819909
M12142	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0946885
M12142	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.07992468
M12142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.1076571
M12142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.0848708
M12142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.1146036
M12142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.1607857
M12142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.0894997
M12142	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.09965164
M12261	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2041419
M12261	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacter	0.17090979
M12261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	0.25566172
M12261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	0.21561666
M12261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	-0.1918247
M12261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospir	0.3340069
M12261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	0.1812132
M12261	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.20858514
M12261	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2561316
M12261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.19744205
M12261	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.17780736
M15076	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__	0.08665773
M15076	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	-0.1374927
M15076	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanospirillum	-0.0972225
M15076	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanospirillum	-0.1207912
M15076	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__	0.08665773
M15076	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09747309
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1187369
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1058728
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0919343
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1085981
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0969911
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0969911
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0876263
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0914823
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1185513

M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1162937
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0969911
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0885627
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09630303
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919343
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914823
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919343
M15076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0990193
M15076	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriia	-0.0924563
M15076	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0914823
M15076	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0919343
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1073002
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0845636
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08600938
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0859191
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0971887
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0919343
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0970593
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0857746
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09747309
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09620847
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0963237
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0914823
M15076	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0930147
M15076	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0914823
M15076	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0918815
M15076	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09340651
M15076	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0919343
M15076	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.0898894
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0846871
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1256975
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0890496
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0914823
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0969911
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1123826
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1163333
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0956474
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0869406
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0994889
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.088377
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0905255
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.1152173
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1229548
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0862373
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1188512
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0910255
M15076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0958257
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0850988
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0914823
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.101957

M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0863668
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08215461
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0867808
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1014128
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0877519
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0895737
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0966078
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0908264
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0826159
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0969911
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09119203
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1107915
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1008491
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1000406
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0833725
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1158741
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1382197
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0846095
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0816659
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0895196
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0862683
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0868126
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0967113
M15076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0969911
M15076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1099044
M15076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0957807
M15076	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0978022
M15076	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09148232
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0898981
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0886589
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0869806
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0919343
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09148232
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09957102
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08838705
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08450384
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08815004
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0940539
M15076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0855743
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0979885
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0868126
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0901138
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1022199
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0846883
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0868001
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0951438
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0978465

M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0932952
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1152915
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0868274
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0859775
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1063542
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.086988
M15076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0969911
M15076	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08014048
M15076	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0885683
M15076	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08275734
M15076	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0856468
M15076	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1062379
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09148232
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0908514
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0868274
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0969911
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1126534
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0868803
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0960368
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1015324
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0891999
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0919571
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1053453
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0864603
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.094974
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.097854
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1197462
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0842371
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.10003
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08665773
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0880522
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0914823
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0870095
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0832286
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0919343
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1126534
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0958038
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0856297
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1040923
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.092858
M15076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09148232
M15076	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0969911
M15076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0969911
M15076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0927091
M15076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0833656
M15076	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasioccales.f__	-0.0873819

M15076	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0919343
M15076	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.09148232
M15122	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1078438
M15122	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0882906
M15122	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0850743
M15122	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	-0.0878074
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.1137235
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.0900473
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.1252803
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1376104
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.14839633
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.10842449
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.10741752
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	-0.0803106
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	-0.0918253
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	-0.1068051
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1292648
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.10130145
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1056339
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.0850394
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.0838732
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.090034
M15122	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.18087003
M15122	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1085877
M15122	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1006392
M15122	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1730259
M15122	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1281346
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.0892672
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0919536
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1087223
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0931791
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0923517
M15122	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16707344
M15122	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1763882
M15125	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2633742
M15125	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.248165
M15125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2961714
M15125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2144579
M15125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.3951324
M15125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2083695
M15125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	-0.203838
M15125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1950206
M15125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.3433561
M15125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2133349
M15130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.1112983
M15130	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0914724
M15130	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0878412
M15130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.10492
M15130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0998405
M15130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.18764938

M15130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1074108
M15130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12531162
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0896084
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0875018
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0888823
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1044173
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.150121
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1438839
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1016055
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0948558
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10733807
M15130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17752049
M15130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1530095
M15130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1455272
M15130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1063939
M15130	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0890415
M15130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1092744
M15130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0932795
M15130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18796301
M15135	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0931482
M15135	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0910204
M15135	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1117823
M15135	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0966581
M15135	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.22718236
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11776077
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1769337
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.119951
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17143519
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1162296
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0868877
M15135	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13579019
M15135	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0805191
M15135	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0909826
M15135	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23279455
M15136	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.1962657
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3190894
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2085247
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2011134
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2011134
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966772
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23006679
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2011134
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2194018
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19650909
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2340703
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2085247
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966772
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2085247
M15136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.6301472
M15136	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2085127

M15136	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.1966772
M15136	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2085247
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2947556
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2040596
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.33777625
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2226302
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2085247
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2519388
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.1962657
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2019466
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2172576
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27026565
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.2368538
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.1966772
M15136	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.2218918
M15136	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.1966772
M15136	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.1945606
M15136	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2085247
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2157434
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1966772
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2011134
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.264779
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2946389
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2526089
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2303948
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2229584
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2481714
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2713337
M15136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.390446
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1966772
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2640488
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2390098
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2112986
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1996916
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2775321
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3460064
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2011134
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2140981
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2460877
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2586833
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2392517
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2719763
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.196222
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2104243
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.238421
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3804079
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2202098
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2684797
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2780626
M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2228616

M15136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobactera	-0.2011134
M15136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23750006
M15136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2678594
M15136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.268487
M15136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3317061
M15136	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2348613
M15136	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.19667715
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2469056
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2085247
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19667715
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26673666
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2272089
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2557016
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1991562
M15136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2122444
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2254024
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.226428
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.204575
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2582899
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2071963
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2508591
M15136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2011134
M15136	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1952148
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.19667715
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2394222
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2011134
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22241983
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2071847
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2080204
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2245119
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2440032
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2222523
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2027567
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1966772
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21742822
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2085247
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.23398
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1972231
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2302797
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.19605054
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.19667715
M15136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2306084
M15136	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2011134

M15136	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2011134
M15136	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.3183882
M15136	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2085247
M15136	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2133797
M15136	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2238544
M15136	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2556315
M15136	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.19667715
M15142	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10708698
M15142	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10084304
M15142	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1015376
M15142	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08915319
M15142	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.10406731
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16747721
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12598163
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08995121
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08931217
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09997048
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16517129
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14900927
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.12734107
M15142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09110242
M15142	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10413744
M15142	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08675771
M15142	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09522964
M15142	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	0.08900599
M15142	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0915755
M15142	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08761699
M15142	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.11723684
M15142	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08705712
M15308	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2911653
M15308	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2181494
M15308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2119502
M15308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3485333
M15308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31280368
M15308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.31359885
M15308	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3763287
M15308	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18927781
M15336	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2153774
M15336	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18455067
M15336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1838348
M15336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1982008
M15336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.181811
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1952893
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19035258
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18702446
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3447126
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19548762
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2717908
M15336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.39826824
M15336	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2032386

M15336	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.2385801
M15336	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.2432459
M15336	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.1747169
M15336	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.f	0.16674995
M15336	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.f	-0.1796202
M15336	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.f	-0.2442622
M15336	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales.f	-0.1697199
M15336	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales.f	0.25687805
M15336	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.o	-0.1988051
M15443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.1027182
M15443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriales.f	-0.0802873
M15443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1235849
M15443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1091134
M15443	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	-0.0825966
M15443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.0795303
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__Christensenellales.f	-0.1201445
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	-0.088013
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__Dehalobacteriales.f	-0.113221
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriales.f	-0.0919879
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales.f__Gracilibacteriales.f	-0.0869672
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	0.10294488
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	0.12662685
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	-0.1112666
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	0.1501217
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	-0.1025985
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__Tissierellales.f	-0.0847086
M15443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales.f	0.19076195
M15443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	-0.0850346
M15443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	-0.0858539
M15443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	-0.0834007
M15443	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales.f	0.08394856
M15443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.f	-0.0827758
M15443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.f	-0.099329
M15443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales.f	0.15752002
M15443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales.f	0.08238664
M15443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales.f	0.082837
M15443	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.o	-0.166633
M15497	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.2122099
M15497	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	-0.2827083
M15497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.25599975
M15497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.2252066
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	-0.2593783
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__Dehalobacteriales.f	-0.2556817
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	-0.2507059
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__Mogibacteriales.f	-0.2636864
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales.f__Peptostreptococcales.f	-0.2105085
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	0.24178978
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__Tissierellales.f	-0.2045109
M15497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales.f	-0.2113213
M15497	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales.f	-0.2336626

M15497	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.204099
M15500	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0824508
M15500	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09751792
M15500	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0854247
M15500	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1096835
M15500	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08477094
M15500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08260729
M15500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08735494
M15500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.21967328
M15500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09675288
M15500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0827422
M15500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.07947
M15500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08342586
M15500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15265774
M15500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08713348
M15500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09751792
M15500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08500974
M15500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0924768
M15500	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0858138
M15500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0838711
M15500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09303547
M15500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14215183
M15506	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0863374
M15506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1218012
M15506	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1219817
M15506	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1828771
M15506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10573731
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0919117
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0933951
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10351411
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13235447
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0787424
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1656835
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14181727
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1368266
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0901705
M15506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23514434
M15506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1834114
M15506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0966762
M15506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1111492
M15506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09466551
M15506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0927326
M15506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21620642
M15506	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.084306
M15506	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0931205
M15581	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0862831
M15581	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0885597
M15581	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0807743
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0822086
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1019795

M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1547027
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1109309
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08187784
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11858163
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15225962
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1517622
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15677857
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1218697
M15581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21493356
M15581	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0916474
M15581	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.162801
M15581	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07458065
M15581	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10505761
M15581	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19102363
M15581	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0805846
M15581	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1349772
M15586	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.116516
M15586	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1278991
M15586	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.089707
M15586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1016271
M15586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08437905
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.096539
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1286416
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.106425
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1373397
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1186432
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1527054
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17114311
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0820416
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0893304
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12850392
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1294888
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0794299
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0783853
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08892189
M15586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20355403
M15586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1383841
M15586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0852331
M15586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0856254
M15586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1293851
M15586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0803284
M15586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0852584
M15586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1639381
M15586	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1359395
M15587	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09360561
M15587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08365838
M15587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08201224
M15587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09321097
M15587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08542022
M15587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09642703

M15587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.10451648
M15587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi:	0.11413553
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09618135
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.08264314
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.09929991
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08425092
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11050383
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11373218
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09204672
M15587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10545332
M15587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1083118
M15587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09503126
M15587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11387278
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09820444
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0789462
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08837234
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10299278
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0895652
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09820444
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08643813
M15587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08254285
M15587	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1188722
M15650	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2359811
M15650	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1871117
M15650	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1996469
M15650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1862249
M15650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1863992
M15650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1831481
M15650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1982038
M15650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.2073679
M15650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2734376
M15650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17516824
M15650	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.19924115
M15650	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20579417
M15650	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.21123332
M15650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1829423
M15650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.227375
M15650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2259889
M15650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.226093
M15650	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2039577
M15650	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2397268
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1983233
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2420002
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2676902
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2350542
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2082053
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2123779
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22171226
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1983233
M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2165608

M15650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2409197
M15650	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2142083
M15667	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08347965
M15667	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08347965
M15667	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09434601
M15667	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0870505
M15667	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0877026
M15667	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0883355
M15667	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1014833
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0919376
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10352633
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08124665
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0792099
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0837547
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0927835
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11411967
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0999547
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1161958
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0931982
M15667	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1504053
M15667	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.12761908
M15667	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09023872
M15667	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.0828964
M15667	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09434601
M15667	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09820824
M15667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0856174
M15667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1163257
M15667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1036874
M15667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08347965
M15667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14903014
M15673	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2226969
M15673	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2253408
M15673	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1842746
M15673	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19606739
M15673	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.24319703
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2498672
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26147611
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3089614
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2433337
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2583442
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1912593
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2398528
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1722117
M15673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.38442631
M15673	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33849097
M15673	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1886292
M15673	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2941586
M15676	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0972851
M15676	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0857953
M15676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0928555

M15676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10168079
M15676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10210772
M15676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08215986
M15676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0856754
M15676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09636759
M15676	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0898216
M15676	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08933347
M15676	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09908393
M15676	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10959515
M15676	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.08157
M15676	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09504265
M15676	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1055753
M15676	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.10925168
M15677	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0939437
M15677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1000377
M15677	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0940107
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1271136
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1232334
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1847421
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1683301
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0930581
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0857268
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09337433
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1329275
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.180818
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1532002
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0913725
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0888519
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08227323
M15677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13517197
M15677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0995023
M15677	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13122083
M15677	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1098962
M15677	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1190079
M15677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11766523
M15677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11525443
M15677	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1691362
M15679	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2764287
M15679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1858794
M15679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1818915
M15679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1963939
M15679	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.217537
M15679	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1843473
M15679	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2449703
M15679	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2367005
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2389324
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1956268
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.2112794
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1958526
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2084271

M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2304065
M15679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.1843111
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2074101
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.3769629
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2484268
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.38155198
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	-0.2072349
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.2162003
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.1724538
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcus	-0.2137288
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.2944226
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.2110181
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.28764639
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.241838
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas	-0.2637183
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.3071468
M15679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.41187978
M15679	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.179279
M15679	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.218947
M15679	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae	-0.2187853
M15679	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiaceae	-0.1774262
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.2128697
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.2077082
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.2640119
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.2992449
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.2502262
M15679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocyclaceae	-0.1999514
M15679	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2141924
M15679	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2172439
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__Chromatiaceae	-0.2000275
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__Chromatiaceae	-0.2197512
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.2633414
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.339463
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.1908623
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.1929772
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.186141
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	0.29584011
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	-0.1838499
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae	-0.2000275
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionaceae	-0.3332354
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	0.24028124
M15679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	-0.230684
M15679	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.1904499
M15679	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcaceae	-0.2501697
M15681	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae	0.08665703
M15681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1049626
M15681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1018957
M15681	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.1366861
M15681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.09177
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.09367111

M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08955352
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1047969
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0929984
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12972768
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15155271
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0805377
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.09842114
M15681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0879329
M15681	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.12224853
M15681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08371514
M15681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10596716
M15681	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0835685
M15681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11841456
M15681	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1227833
M15681	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0845702
M15685	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2026255
M15685	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1878133
M15685	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2106132
M15685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1784724
M15685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1707165
M15685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1670265
M15685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1836531
M15685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18219291
M15685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.228318
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1956007
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2510018
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5798624
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2869645
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17566577
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22865779
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1653761
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.235709
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2734456
M15685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3946205
M15685	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2560552
M15685	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2468299
M15685	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2166092
M15685	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3171402
M15685	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1808129
M15685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1683395
M15685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.28831
M15685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30220784
M15685	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2981811
M15704	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2217254
M15704	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.23860732
M15704	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2217254
M15704	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1985979
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32912906
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24682861
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25859618

M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25881886
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22029547
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24519807
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22992602
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20700123
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.33932726
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1866951
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19415005
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1939707
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22029547
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20700123
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.33322748
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22029547
M15704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.2052522
M15704	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.20700123
M15704	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.22029547
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.19346445
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.2096719
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.34224968
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25421371
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25988145
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22029547
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21200548
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.32350341
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1985979
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21334198
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2483206
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2202652
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__s	0.20700123
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__s	0.38906031
M15704	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2909919
M15704	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.20700123
M15704	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__a	0.21586594
M15704	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2065755
M15704	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.22029547
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.31490596
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.30919218
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.20700123
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.36792421
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.42091265
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.20656163
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.22115119
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.2445316
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.28382169
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.23716193
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.47064789
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.19724976
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.37755666
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.35011828
M15704	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.19000385

M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.21423179
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.20700123
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.27708347
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1969467
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.2194702
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2072323
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22543923
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.43163872
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3313413
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.20267769
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22984649
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33574019
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.39574852
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21933121
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.216187
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25658083
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2400006
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.28037971
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18562466
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.28967438
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.3553701
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1876811
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2536406
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19260032
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2469896
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20187062
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19100901
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25680172
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19186664
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21423756
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19024937
M15704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.33741494
M15704	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18848459
M15704	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.28602358
M15704	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.24340963
M15704	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.24654324
M15704	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2070011
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.40167893
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.21803179
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.24948982
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22512018
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22029547
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2070011
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2623157
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.39994103
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1970181
M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.26206348

M15704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.21744641
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2262986
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22056492
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19819371
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25680172
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3042955
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.304291
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3512143
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19318798
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21220389
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20664677
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19404841
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31074861
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.24184977
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.54215037
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.37954359
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.25429199
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.20750926
M15704	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.341211
M15704	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.34976152
M15704	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.33408996
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2070011
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.24184977
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.26468735
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.37135002
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.33037643
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.191894
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.33283535
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.37338426
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3250275
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26066475
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23993341
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22868642
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.39513998
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22692452
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.3469794
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26560695
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35591052
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31841477
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20010925
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2217254
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.28058594
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.29454737
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27597092
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20700123
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25379732

M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.22029547
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.37135002
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.18413508
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.20862703
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.37334033
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.24948982
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1904906
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2070011
M15704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22961737
M15704	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.26492912
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.25378587
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	0.41837787
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22029547
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.31440417
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.31625205
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.24654324
M15704	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2070011
M15705	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2687739
M15705	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.229626
M15705	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1894229
M15705	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2480807
M15705	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2595673
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2015022
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1766368
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2009242
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1845631
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.1946918
M15705	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2098176
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldis	-0.18526
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3119085
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4146257
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5427994
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2066553
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2788547
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.53281178
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.55051782
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1824538
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2357482
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3809788
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1819624
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1888967
M15705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27617609
M15705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1929359
M15705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1813439
M15705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.238884
M15705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.4718175
M15705	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1796289
M15705	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.3552986
M15705	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1871335
M15705	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2810103

M15705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2290833
M15705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1830798
M15705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1778044
M15705	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.4553238
M15716	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11616287
M15716	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1041172
M15716	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.0930637
M15716	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.09814388
M15716	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11369876
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.14597401
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09936356
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08464452
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11415476
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09548681
M15716	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15067131
M15716	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12619243
M15716	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08895957
M15720	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0957673
M15720	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0778077
M15720	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0813388
M15720	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0823999
M15720	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.10006108
M15720	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1072275
M15720	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0758783
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08178518
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08463264
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09336852
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10014408
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15608614
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10380458
M15720	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.086501
M15720	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0781219
M15720	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.108372
M15720	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11251574
M15720	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0881565
M15729	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.10421262
M15729	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococ	0.10487808
M15729	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1400259
M15729	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08160912
M15729	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08027303
M15729	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0890736
M15729	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10068671
M15729	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11741157
M15729	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1311295
M15730	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0885966
M15730	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.16071354
M15730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07620361
M15730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.15254338
M15730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.13099515
M15730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07458684

M15730	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.07293105
M15730	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09640613
M15730	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09195736
M15730	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09795369
M15730	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1203976
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.190458
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.26274691
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13280918
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0886145
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0707634
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1520823
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08454866
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11132087
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12161082
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09086514
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12511812
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.11914107
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11415922
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08429649
M15730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2381269
M15730	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.13563888
M15730	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1364162
M15730	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08478419
M15730	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08686005
M15730	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07238406
M15730	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08230676
M15730	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.082835
M15730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0852122
M15730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08459884
M15730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07780906
M15730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1906236
M15730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.07243816
M15730	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.18727177
M15745	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1814771
M15745	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11500827
M15745	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0806643
M15745	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09393385
M15745	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10734126
M15745	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11940636
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08367519
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09451578
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0828889
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08823777
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11920283
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21796652
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2786434
M15745	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11204438
M15745	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10456076
M15745	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.09715
M15745	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08616541

M15745	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0776932
M15745	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1089812
M15745	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1102866
M15747	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0842529
M15747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0878936
M15747	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0949711
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0843038
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1243166
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1504904
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1537142
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09649405
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1149077
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1272494
M15747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1155733
M15747	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.0916823
M15747	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1404337
M15747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11007036
M15747	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1309425
M15749	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0879097
M15749	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0925857
M15749	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1488971
M15749	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2286154
M15749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1027509
M15749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08357947
M15749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09613701
M15749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0854013
M15749	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0931467
M15749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0966777
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0873667
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1298831
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0835959
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1401628
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13230084
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11339678
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1205534
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0890204
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0963913
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1887215
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10637821
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1865093
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.098373
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1024848
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1238039
M15749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1562104
M15749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1007328
M15749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.2298355
M15749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1403103
M15749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.090019
M15749	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0772229
M15749	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0878836

M15749	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1154553
M15749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0935349
M15749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0810305
M15749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18315241
M15749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08736388
M15749	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0823449
M15765	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914663
M15765	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0798609
M15765	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0821421
M15765	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0885112
M15765	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0858818
M15765	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0912507
M15765	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1353352
M15765	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08669522
M15765	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08494183
M15765	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0869365
M15765	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0829992
M15765	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1095491
M15765	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1177956
M15765	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0887374
M15765	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0800935
M15765	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0999916
M15765	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0865597
M15772	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0913215
M15772	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1240788
M15772	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10930521
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0831656
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10879914
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1059265
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0837313
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09494822
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0943995
M15772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09917607
M15772	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0791926
M15772	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0919849
M15772	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08191193
M15772	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12923749
M15772	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0849732
M15778	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08206102
M15778	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.079647
M15778	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08064016
M15778	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0868762
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0858093
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1211425
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0943203
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0931471
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08206102
M15778	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.0895571
M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0933822
M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0834585

M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09309538
M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0845436
M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.098904
M15778	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.10703393
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0881224
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0881377
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0917161
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08826649
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1021356
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0968919
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0855536
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1186846
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0877759
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0789307
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1229894
M15778	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1267213
M15778	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0815191
M15778	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0807096
M15778	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0806313
M15778	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0953928
M15778	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0840976
M15778	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0872968
M15778	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0936596
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999915
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1318325
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1224591
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0830568
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0907162
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11168436
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0879394
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0925688
M15778	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0881795
M15778	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1005888
M15778	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0842679
M15778	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1329473
M15797	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1808065
M15797	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.23957454
M15797	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.17386
M15797	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2092263
M15797	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1829538
M15797	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.2916132
M15797	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2146505
M15797	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2331566
M15797	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2028629
M15797	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2523037
M15797	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24167416
M15797	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1887414
M15797	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1889087
M15872	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0835015
M15872	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.10613767

M15872	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1621626
M15872	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10527158
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1336437
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1082848
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0760291
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08975733
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08137963
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11378643
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1014391
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13501572
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0900181
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.115612
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14329104
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1066479
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0804726
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10180917
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1290855
M15872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21775908
M15872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0858874
M15872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0872593
M15872	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08757827
M15872	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycet	0.13032576
M15872	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09785859
M15872	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11417448
M15872	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1336396
M15872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.0884378
M15872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08089989
M15872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11836069
M15872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15584611
M15872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09368391
M15949	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1059105
M15949	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1515237
M15949	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1006455
M15949	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09303468
M15949	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1002098
M15949	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.108451
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1065284
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0799646
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10329568
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13689571
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14921663
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19751223
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1080273
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.120623
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15611289
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0916801
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0870529
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0992131
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0848935
M15949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25060871

M15949	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1848933
M15949	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.10456755
M15949	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.0997914
M15949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	0.08687425
M15949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0801077
M15949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1035317
M15949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0877714
M15949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.22905052
M15949	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.1087763
M15958	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanobacteriales.f__	-0.0831053
M15958	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanobacteriales.f__	-0.1367027
M15958	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.07762063
M15958	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0906841
M15958	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0792726
M15958	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0819315
M15958	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0920481
M15958	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08916046
M15958	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08984579
M15958	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.07762063
M15958	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.0998552
M15958	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0893537
M15958	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0843323
M15958	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__	-0.0848345
M15958	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__	-0.0868632
M15958	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__	-0.0919727
M15958	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__	-0.1049926
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldicoccus.f__	-0.088142
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococcoides.f__	-0.09926
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.0796459
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1056684
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.09684725
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1167112
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1158877
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0830636
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.07829786
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	-0.0801794
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__	-0.0812763
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__	-0.0850547
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.g__	-0.0813131
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.1433889
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadaceae.g__	-0.109887
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__	-0.0809747
M15958	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__	-0.083905
M15958	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12949428
M15958	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0891012
M15958	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1261807
M15958	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1008373
M15958	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0852889
M15958	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.11649355
M15958	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.0802461

M15958	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09946169
M15958	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08627924
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.120464
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08183907
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09824055
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873507
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1082048
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0960431
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1145606
M15958	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0890584
M15958	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0910451
M15958	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0781225
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0824713
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0836145
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10106838
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11289462
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0944389
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0913436
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0899472
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10173387
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0836145
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0986853
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0852822
M15958	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0889553
M15958	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1280859
M15990	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32664251
M15990	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23421897
M15990	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.296018
M15990	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.36316046
M15990	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.26585163
M15990	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.23908975
M15990	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.4413136
M15990	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.4030921
M15990	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.29267995
M15990	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.41141862
M15990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2416226
M15990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2961597
M15990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.240143
M15990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29301415
M15990	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2371274
M15990	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3061599
M15990	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.30040207
M15990	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.36245708
M15990	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.29493117
M15990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.3000301
M15990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2922039
M15990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2490014
M15990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2826444
M15990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.34714097
M15990	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2592491

M15990	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.29997445
M15990	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.31981091
M15990	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2427024
M17665	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	-0.2405735
M17665	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.18403963
M17665	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.1811085
M17665	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.22932027
M17665	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.20395221
M17665	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2405735
M17665	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1927927
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24654631
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2184368
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22428736
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17960743
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17960743
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24720461
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23885058
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22074279
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24500137
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2182697
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17960743
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22544972
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1926269
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22428736
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22074279
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2011347
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3223541
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22428736
M17665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19967642
M17665	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.22074279
M17665	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.22428736
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21537504
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21703595
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17548642
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1890346
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21575787
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.20142011
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17896667
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17933489
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.26138763
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22428736
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22047288
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1927927
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17326723
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2478382
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22940232
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__s	0.22074279
M17665	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__s	0.19403069
M17665	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.22074279
M17665	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__a	0.22585483

M17665	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.222911
M17665	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.22428736
M17665	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	-0.2107787
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.2544791
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.23477796
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22074279
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.17960743
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.24806059
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.20471105
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.20268207
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.20098461
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.19145458
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.25116775
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.18361133
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.24242179
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.22820921
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.21655021
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19725331
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.22295696
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2081287
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.27241245
M17665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.28010457
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.20899944
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.22074279
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.2259648
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.26102495
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2087793
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22668057
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.21603016
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18069416
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.24375726
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25232302
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.19605141
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1938894
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24156848
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17960743
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22006425
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20896616
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2279478
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.16669461
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21996652
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.23167039
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20317912
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2698769
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18057095
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.20883766
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.20929734
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.23760418
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M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19125553

M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	0.24419516
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24242736
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22346436
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21528723
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17580422
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23307373
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24216519
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20089699
M17665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.17960743
M17665	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20065515
M17665	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22099968
M17665	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.2581857
M17665	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2207428
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.25133721
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.1708857
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.26474425
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19885601
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22074279
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22428736
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2207428
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2500753
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26305037
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22309052
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22074279
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1956675
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2271111
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18505233
M17665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.21454229
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1843521
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25050111
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17782836
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17115167
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21528723
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20282001
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17069214
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19419927
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23030965
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24313134
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17675166
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.2308435
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.27766652
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19990686

M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2154273
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.27317131
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22074279
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.18907906
M17665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17960743
M17665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.22074279
M17665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2134363
M17665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2934791
M17665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.3033909
M17665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.30281538
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2207428
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20747529
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.28348079
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23075
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27129189
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18106908
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24435811
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29166664
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17456877
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.19436691
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M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.23332128
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22074279
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2046741
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20142041
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22428736
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23969087
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.22691187
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.18191835
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.20821689
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.24804229
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.26474425
M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1928349

M17665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2207428
M17665	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.17960743
M17665	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.17960743
M17665	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.22053939
M17665	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.17008619
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.20702041
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.2700101
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22428736
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.25817952
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.25765704
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.2581857
M17665	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2207428
M17747	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0968377
M17747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08714551
M17747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.082482
M17747	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0860701
M17747	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0821982
M17747	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.07531248
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1162558
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0751988
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2046948
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2138516
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1292189
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0815132
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10003409
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0885657
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10349713
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08561963
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0823529
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0731499
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1055498
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1328673
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0917313
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1053203
M17747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09381202
M17747	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0748571
M17747	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1851864
M17747	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13516775
M17747	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0979712
M17747	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07441245
M17747	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0780748
M17747	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1294838
M17747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0883614
M17747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0800737
M17747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0762936
M17747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0776054
M17747	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0791689
M17747	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1565994
M17769	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0817906
M17769	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0916005

M17769	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08510183
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11629932
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0983767
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0761728
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0816078
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894256
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894256
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0782324
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0761628
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0785994
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08908308
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894256
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08423067
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0761728
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0761628
M17769	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0761728
M17769	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.07909812
M17769	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.09133108
M17769	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.0761628
M17769	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0761728
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0864316
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0761728
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0801512
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08510183
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09819448
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0761628
M17769	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0752996
M17769	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0761628
M17769	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.077319
M17769	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.0803591
M17769	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0761728
M17769	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07693234
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.12031664
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0774373
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0761628
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0894256
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0731721
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0956104
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0872549
M17769	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.1297221
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0847298
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0761628
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0981238
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0906399
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07591778
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0740004
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2076655
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0880175
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1055089
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1614337

M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.085759
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0858934
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0825801
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11150159
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0894256
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07610071
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1542066
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1081547
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1391133
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0868362
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11071491
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0781345
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0933662
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1106654
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1602508
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.109764
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1332188
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1196987
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0888551
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.089386
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1326104
M17769	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0894256
M17769	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1395411
M17769	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1188276
M17769	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0799218
M17769	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1665384
M17769	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07313436
M17769	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0926226
M17769	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0893045
M17769	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0817197
M17769	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07616278
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0852592
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0833667
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0885722
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761728
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07616278
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09819519
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1021039
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0872189
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0805843
M17769	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0753452
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0738893
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0973288
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.089386
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0818197
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0888195
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0948142

M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0918621
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1166481
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07681285
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0959886
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0870738
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0894256
M17769	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07616278
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1020865
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0959886
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0894256
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1005694
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0776961
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0971958
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0978568
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0811607
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.088414
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1005915
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.081246
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0761628
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0876394
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1445767
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0965528
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0964396
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0761728
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.088091
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0849816
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0824822
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0735418
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0833667
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08166727
M17769	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07616278
M17769	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0894256
M17769	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0894256
M17769	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0873063
M17769	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0842626
M17769	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0854507
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0879039
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0761728
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0802536
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0831463
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0837652
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0817197
M17769	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	0.07616278
M17772	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19640556
M17772	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.20944
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2624194

M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.3750639
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5903998
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.288392
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1749905
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20846146
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34889777
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2341895
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2380204
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1778747
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1820726
M17772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.38811722
M17772	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2491408
M17772	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1757489
M17772	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22089808
M17772	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19113301
M17772	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29828245
M17772	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3690046
M17774	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.21820065
M17774	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.19687332
M17774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23562803
M17774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16592628
M17774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28617274
M17774	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.19870998
M17774	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1875688
M17774	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1708684
M17774	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1616389
M17774	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19915207
M17774	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23552861
M17805	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09760921
M17805	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0865064
M17805	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0889226
M17805	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1595894
M17805	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1407923
M17805	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08723495
M17805	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0991136
M17805	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0842203
M17805	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08007317
M17805	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0925902
M17805	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1342148
M17805	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07783909
M17805	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0788895
M17805	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1116687
M17895	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0971848
M17895	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09487341
M17895	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09276917
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1007868
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1048637
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1547697
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09639335
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.085535

M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07759299
M17895	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09954419
M17895	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0990072
M17895	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09231931
M17895	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.0786839
M17945	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.26614377
M17945	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2215758
M17945	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2317871
M17945	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22624797
M17945	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2245868
M17945	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.25519293
M17945	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.23490512
M17945	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.3598287
M17945	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2401732
M17945	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.23633245
M17945	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2417195
M17945	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2553885
M17945	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2174752
M17945	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2417195
M18245	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.172679
M18245	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17792174
M18245	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1688243
M18245	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1980238
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1822251
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4345456
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2124984
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21292673
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2572698
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1676417
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16766658
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2605552
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.16739
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1715964
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2403539
M18245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3403425
M18245	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1995218
M18245	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1956539
M18245	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1879085
M18245	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2229689
M18245	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1875936
M18245	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.20898983
M18245	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.265073
M18245	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.342914
M18245	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2069537
M18254	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1037453
M18254	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0858747
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1672545
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2381967
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1817788
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.090582

M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09509803
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09491984
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15199613
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11098687
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0889599
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1050875
M18254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12366181
M18254	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0907642
M18254	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1127889
M18254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1420861
M18254	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1458189
M18254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08118009
M18254	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1170681
M18280	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3841354
M18280	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2469082
M18280	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2428616
M18280	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.4488403
M18280	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2279877
M18280	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.22520256
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4176623
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3271942
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7097868
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4417155
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.237387
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28332319
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.48028324
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3611303
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3026745
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2785644
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.34462244
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.372143
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2237935
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28285825
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2618629
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2328772
M18280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.60210835
M18280	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2645934
M18280	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2507313
M18280	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2543577
M18280	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3531382
M18280	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2521783
M18280	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.4466609
M18280	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2251765
M18280	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.57185423
M18280	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.4731056
M18292	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09189699
M18292	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.12760329
M18292	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10970269
M18292	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1113039
M18292	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1287662

M18292	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	0.09402472
M18292	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	0.10997218
M18292	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	-0.1135781
M18319	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.12781974
M18319	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0897432
M18319	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0907536
M18319	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1046495
M18319	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1408513
M18319	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	-0.0829121
M18319	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae	0.08576948
M18319	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacteraceae	0.09428437
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1368381
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.0896062
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.127474
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.08128653
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1123353
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.133989
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0923166
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.09631142
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.07645126
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.1053215
M18319	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.1421143
M18319	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae	0.14958221
M18319	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiaceae	-0.0927895
M18319	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	0.08473418
M18319	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriaceae	-0.0944599
M18319	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	0.1031156
M18319	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae	0.10044945
M18319	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__Spirochaetaceae	-0.1078674
M18319	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiaceae	-0.1077665
M18335	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae	-0.0821557
M18335	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.0902158
M18335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacteraceae	0.09087025
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1309094
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.1103787
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.08420394
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.09659588
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.12836415
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriaceae	-0.079675
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.0965382
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.11217354
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.0839426
M18335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.14619102
M18349	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.1182478
M18349	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.12222866
M18349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.1617471
M18349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.10534983
M18349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1465672
M18349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.15240479
M18349	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1012124

M18349	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.116039
M18349	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.0921567
M18349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.f	-0.143818
M18349	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales.f	0.12242877
M18349	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.o	-0.1134634
M18354	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.o	-0.0766298
M18354	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanoplasmata.f__Methanoplasmata.f	-0.0884198
M18354	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanoplasmata.f__Methanoplasmata.f	-0.1033058
M18354	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__Solibacterales.f	0.08143356
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.11076
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0747863
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0785452
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.1466419
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0778524
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0971051
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0889874
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0889874
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0758847
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.1101662
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	0.08876077
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0889874
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	0.08124365
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0778524
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0758847
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0823506
M18354	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	-0.0778524
M18354	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	-0.2108954
M18354	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__Solirubrobacterales.f	-0.0758847
M18354	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales.f__Fimbriimonadiales.f	-0.0778524
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1526658
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.0821849
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.2161156
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.0840375
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales.f	-0.0778524
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	0.08143356
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	0.08777264
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.f	-0.0758847
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.f	-0.0798984
M18354	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.f	-0.0831511
M18354	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Parachlamydiales.f	-0.0758847
M18354	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaerolineales.f	-0.0793583
M18354	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__Nostocales.f	0.07491707
M18354	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__Nostocales.f	-0.0778524
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.0767452
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.1092375
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.0947949
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paenibacillaceae.g	-0.0758847
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paenibacillaceae.g	-0.0889874
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paenibacillaceae.g	-0.0915829
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paenibacillaceae.g	-0.1162816

M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0767638
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.086554
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.0793243
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.0966277
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0900484
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0841703
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1063084
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0933818
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1020928
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.118298
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1196457
M18354	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12175541
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0887054
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0758847
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0947152
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0752845
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09734023
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0912137
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0763275
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1064552
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0889874
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1216888
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0867726
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09559968
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1143207
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0839911
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0774254
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.105548
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0766131
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0868666
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1323363
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10139447
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.166331
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0771236
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1138599
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0908481
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1209471
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0840095
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07599049
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0857497
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14957936
M18354	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterala	-0.0889874
M18354	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1560701
M18354	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0806156
M18354	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0933213
M18354	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07588465
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0899285
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0915933
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0847524
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0758847

M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0778524
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07588465
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0870079
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0883139
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1004022
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0883608
M18354	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0743945
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1003994
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0840095
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0768086
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.088826
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0902455
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0753886
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0911845
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.08736
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1034363
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0832864
M18354	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0889874
M18354	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0894173
M18354	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0888972
M18354	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.083333
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07588465
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0761742
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.08736
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0889874
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0803037
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0895687
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0878765
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0863404
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1003508
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0848413
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1049184
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1051458
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0857355
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0797034
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1050028
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0828244
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0758847
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0836258
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21722041
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0793777
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0778524
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0895687
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0839601

M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0791192
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0764368
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0967429
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.0802344
M18354	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07588465
M18354	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0889874
M18354	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0889874
M18354	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0896797
M18354	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.114234
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.0835163
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0820253
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0778524
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0881897
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0901924
M18354	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.07588465
M18357	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0803733
M18357	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0903247
M18357	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1178364
M18357	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0969902
M18357	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1325608
M18357	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0872538
M18357	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0812871
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0804065
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1957524
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.16294
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1364549
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0973348
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14930079
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07926946
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0905617
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12393227
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0772077
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1088583
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0927873
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0911625
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0810549
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12023851
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1655484
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0959833
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09099599
M18357	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13731107
M18357	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0879757
M18357	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.177666
M18357	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1037794
M18357	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1327048
M18357	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0936202
M18357	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1104881
M18357	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0896929
M18357	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09275816
M18357	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0739535

M18357	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.0969764
M18357	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.1176115
M18362	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.f__	0.08102663
M18362	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0795411
M18362	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0905282
M18362	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0828055
M18362	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.07241154
M18362	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0856425
M18362	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.12806227
M18362	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.08160445
M18362	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0948049
M18362	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__	-0.0723981
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillales.f__	-0.0807575
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__	0.07197432
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales.f__	-0.075787
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcales.f__	-0.0712082
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillales.f__	-0.0699706
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocales.f__	-0.0827547
M18362	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales.f__	-0.1172813
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	0.08949328
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.26778901
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.09371212
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	0.34085484
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	0.15399191
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1127437
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0911566
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0797941
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1586712
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.0859611
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcales.f__	0.14142667
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	0.08345987
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	0.08728729
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales.f__	0.0921605
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	-0.0779517
M18362	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.1420359
M18362	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12848058
M18362	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1239438
M18362	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.09585678
M18362	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.09193614
M18362	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.0885022
M18362	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.0891297
M18362	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	-0.0894048
M18362	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	0.17948089
M18369	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1005302
M18369	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1057141
M18369	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1584885
M18369	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1059059
M18369	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales.f__	-0.1030838
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.0794516
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.08458386

M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08545063
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0846984
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11183071
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0851039
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11643002
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1459191
M18369	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15277854
M18369	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1011487
M18369	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1426249
M18369	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1076142
M18369	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1234921
M18369	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.126288
M18369	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1068555
M18369	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11764054
M18374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0879464
M18374	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08169885
M18374	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1436818
M18374	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0841704
M18374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10337782
M18374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1200021
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0979562
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1043586
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.090127
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0858538
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11881099
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1246573
M18374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0846934
M18374	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1084907
M18374	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0830201
M18374	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1333362
M18374	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08510383
M18374	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08985578
M18374	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.080626
M18374	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08533082
M18374	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08424034
M18374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08843848
M18374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07679993
M18374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0853735
M18374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0942216
M18392	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1856045
M18392	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1767379
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2766339
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4634726
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2693232
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19975133
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23465391
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22698451
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1797782
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.209925
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19840929

M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2386677
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20128538
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1760075
M18392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25267734
M18392	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1824096
M18392	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2251637
M18392	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.22169025
M18392	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.18999146
M18392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2632773
M18392	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.2547533
M18392	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2189471
M18392	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.1956183
M18394	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09765075
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0940508
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1432395
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1174434
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0833715
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08438541
M18394	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10237999
M18467	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1184709
M18467	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0805412
M18467	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08039074
M18467	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1472095
M18467	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0885567
M18467	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0795686
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1362283
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2075597
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2032234
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0975495
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0883207
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09467572
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10429892
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1157638
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1058958
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0953605
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1454111
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0990902
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0957717
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.126262
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1042127
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0868842
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1091972
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1092181
M18467	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.08376
M18467	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0951057
M18467	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0895597
M18467	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1479492
M18467	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__	-0.0825605
M18467	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.086663
M18467	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1373458

M18467	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0957402
M18467	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10039801
M18467	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0809481
M18467	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0851099
M18467	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2100337
M18476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0910496
M18476	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1259066
M18476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0907851
M18476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11461115
M18476	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0948854
M18476	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0944898
M18476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0815941
M18476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.101518
M18476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0806933
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1184829
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1141258
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0980168
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0922294
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.101801
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1211706
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09704946
M18476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1896966
M18476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0955677
M18476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0861699
M18476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1124461
M18476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0943757
M18476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0993367
M18476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1081259
M18476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.101206
M18476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1123125
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0943757
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0972895
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1050197
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0976014
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.094391
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0896431
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0916514
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16130346
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1012939
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1105859
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.0885896
M18476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1480751
M18477	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0975082
M18477	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1047847
M18477	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09454578
M18477	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0848985
M18477	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08912971
M18477	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0833727
M18477	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0858629
M18477	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0873674

M18477	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09108005
M18477	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0971642
M18477	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0885639
M18477	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10982818
M18477	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.082821
M18477	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0837522
M18477	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1675323
M18477	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0839131
M18477	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0879208
M18477	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0890974
M18477	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.113155
M18477	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0851269
M18494	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1761362
M18494	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1751093
M18494	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2007802
M18494	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactoba	-0.1734461
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1916823
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2305268
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2062076
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2232936
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.183294
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2087606
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2013632
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2226652
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1830966
M18494	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20979029
M18494	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1947019
M18494	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1798487
M18494	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3115903
M18497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1791969
M18497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1843188
M18497	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2099499
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2074068
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.169478
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18407547
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22452127
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18681016
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1904905
M18497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30788158
M18497	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2032932
M18497	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1941186
M18497	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.34553266
M18497	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1992263
M18497	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.17643863
M19130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1826844
M19130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.28708732
M19130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17380653
M19130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18906069
M19130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2619844
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2318802

M19130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25007744
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.16903134
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.16155756
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18329992
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2272534
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.29650432
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.24318736
M19130	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22303612
M19130	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.28587758
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.31558435
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.16798159
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.17555346
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2688155
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.25249
M19130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.22466218
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2658107
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17308247
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18258283
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1610996
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.23260864
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18649607
M19130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24076629
M19130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18202282
M19130	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.1742245
M19130	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.31923445
M19130	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19552169
M19130	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.16872977
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2577253
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2452592
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16282713
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.176395
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.255851
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1939597
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.3146083
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1904222
M19130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.16486293
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20322071
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3217792
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1722924
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2245378
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1765121
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2648818
M19130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20622026
M19130	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.23858738
M19130	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.17186408
M19130	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.19165718
M19130	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1874064
M19263	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2576169
M19263	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2325786
M19263	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29455207

M19263	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2319881
M19263	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.23754754
M19263	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.22366939
M19263	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.2058306
M19263	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__	0.284333
M19263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.29546723
M19263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	0.22146065
M19263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__	-0.240487
M19263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__	-0.254965
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.34376999
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	0.27535482
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.2480687
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.2514577
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.2041753
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	-0.2051017
M19263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__	-0.2206408
M19263	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2737407
M19263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1989565
M19263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.201838
M19263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1996824
M19263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.3194813
M19263	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.2200365
M19263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2624859
M19263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1972729
M19263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__	-0.2176381
M19263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__	-0.2518795
M19263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.21889725
M19263	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2118251
M19263	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcales.f__	-0.2344243
M19324	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.23621862
M19324	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.17945101
M19324	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.24876954
M19324	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.2390692
M19324	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2082384
M19324	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1844108
M19324	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	0.18640079
M19324	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.1851227
M19324	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	0.17292544
M19324	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	0.18726077
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.3112524
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.2601324
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.19196973
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.17827812
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales.f__	-0.2053227
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	-0.2009866
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__	-0.18647
M19324	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.22520017
M19324	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2384033
M19324	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.2488026
M19324	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2047425

M19324	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1727819
M19324	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.20983823
M19324	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.23621862
M19324	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20792106
M19324	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22205713
M19324	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1864879
M19324	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20320885
M19324	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17776944
M19324	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20700406
M19324	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18383835
M19324	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2283102
M20676	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08777813
M20676	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09205518
M20676	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.099884
M20676	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0956752
M20676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09012892
M20676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09949952
M20676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08819184
M20676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08592923
M20676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09480985
M20676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09075095
M20676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0768518
M20676	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0765223
M20676	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0990787
M20676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09226445
M20676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07853594
M20676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09374531
M20676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09226445
M20676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07818934
M20691	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0861192
M20691	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0885581
M20691	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1403507
M20691	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1124427
M20691	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.10268176
M20691	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1016926
M20691	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.123534
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1744722
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1504253
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1371926
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08538973
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09907295
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0855237
M20691	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0941393
M20691	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0883286
M20691	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0908506
M20691	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1143244
M20691	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1055267
M20703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0815943
M20703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10351255
M20703	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10937121

M20703	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0805818
M20703	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.1246033
M20703	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.1348868
M20703	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.19311927
M20703	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09226102
M20703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	0.08156201
M20703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09074245
M20703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0795202
M20703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09615908
M20703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1329558
M20703	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18078738
M20703	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07866736
M20703	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11927114
M20703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09219334
M20703	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08772684
M20758	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.084585
M20758	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0941718
M20758	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0915093
M20758	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1141968
M20758	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1981052
M20758	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.087782
M20758	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.128772
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.1446525
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1373906
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.179191
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0792015
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.078926
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.167348
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11194606
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09392702
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2235925
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0795856
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0834827
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1961846
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23376283
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1862247
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0768659
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1052054
M20758	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30366778
M20758	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1772619
M20758	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1427564
M20758	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0843127
M20758	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1536882
M20758	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1198362
M20758	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0784415
M20758	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09065253
M20758	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0796197
M20758	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0903355
M20758	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31060543
M20758	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1771736

M21046	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2907694
M21046	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.4334413
M21046	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23743937
M21046	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19714456
M21046	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.23318627
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	0.25515579
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.23761553
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.1815659
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.1954786
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.2930319
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.19088975
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.19839655
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	0.27844968
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.1964207
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.2228229
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales	-0.1943202
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales	-0.2008328
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales	-0.2620133
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.2154195
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.18958081
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.23537725
M21046	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.39050733
M21046	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2771278
M21046	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2450744
M21046	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales.f__	0.22493797
M21046	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.21891843
M21046	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales.f__	0.18564755
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f__	0.18564755
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__	0.21370395
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.44294694
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.19364954
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.22551158
M21046	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.23481038
M21127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.11911858
M21127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09925879
M21127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.08576348
M21127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcales	0.09664908
M21127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.08375913
M21127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.11004139
M21127	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1109757
M21127	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09949313
M21127	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09443847
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales.f__	0.08287553
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.09399345
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.10480646
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.10049853
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.10683746
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.09038513
M21127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__	0.08696864
M21127	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1188261

M21127	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1293351
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.302655
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.41196771
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2304677
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2201502
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26020283
M21133	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3846929
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2067283
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagia	-0.2152502
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.19249752
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2150375
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.24386112
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirae	0.20790958
M21133	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirae	-0.3295098
M21133	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.47091494
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillales	-0.1911381
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillales	-0.231983
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__Bacillales	0.25931086
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Bacillales	-0.2061031
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Bacillales	0.317448
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Bacillales	0.30821445
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Bacillales	-0.2192813
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__Gemellales	-0.35883
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__Lactobacillales	-0.2191356
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__Lactobacillales	0.19385027
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales.g__Lactobacillales	-0.1937247
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__Lactobacillales	-0.232622
M21133	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacterales	0.3612151
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.3119985
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivibrionales	-0.2018607
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2829695
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.1945093
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.3459896
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	0.19164762
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.2082906
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.2178968
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.37602457
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.25781516
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.21839705
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.19847202
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.3662387
M21133	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.21612096
M21133	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales	0.38488169
M21133	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Lentisphaeria	0.21533469
M21133	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.368566
M21133	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.2138022
M21133	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.28943687
M21133	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.27025911
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2745368
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2934061

M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3334721
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3687472
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.35642344
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3433605
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2473852
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.2198184
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.3655971
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.25515004
M21133	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2966161
M21133	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2304481
M21133	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2615061
M21133	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3492118
M21133	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2672915
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.25586128
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2198184
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2157119
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3926275
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2447246
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2516891
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2624533
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2283198
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3635581
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3678218
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2294642
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4133316
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2297605
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4871866
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2157119
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.3014091
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2917997
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2548658
M21133	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.322485
M21133	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.44129107
M21133	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.35883927
M21133	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2477822
M21134	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1001492
M21134	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.10571
M21134	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08073418
M21134	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0822615
M21134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0811947
M21134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07958655
M21134	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1001373
M21134	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0925032
M21134	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873097
M21134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.0813981
M21134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0873241
M21134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1103921
M21134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.092039
M21134	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1001823
M21134	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09355899

M21151	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1960177
M21151	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2206238
M21151	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1891059
M21151	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2061704
M21151	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2056247
M21151	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1894586
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2081846
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1863566
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22638154
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2143835
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2586624
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1924135
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2381758
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2539412
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2051147
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1945469
M21151	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34086254
M21151	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1981449
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1880444
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2005677
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2126264
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25312712
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1880444
M21151	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2527802
M21151	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2592762
M21151	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1868659
M21151	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2776678
M21158	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.1287122
M21158	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0966536
M21158	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1160406
M21158	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1016448
M21158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0865408
M21158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0865659
M21158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11673195
M21158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11886058
M21158	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13668208
M21158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09800806
M21158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09089384
M21158	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09227952
M21158	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1252533
M21169	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0884279
M21169	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1084929
M21169	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.1043592
M21169	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08887214
M21169	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08907498
M21169	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08436645
M21169	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08328842
M21169	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0949808
M21169	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0884279
M21169	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08088753

M21177	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08577418
M21177	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	0.12184334
M21177	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.11366152
M21177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.09453883
M21177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1069013
M21177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1061461
M21177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09831419
M21177	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08722229
M21177	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08680644
M21177	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08722229
M21183	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1844429
M21183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2131907
M21183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1844569
M21183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2112609
M21183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19314319
M21183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1804611
M21183	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1812209
M21183	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22770925
M21183	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.22069377
M21183	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22758731
M21183	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25468104
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1807591
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1706517
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1954833
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19805245
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.187176
M21183	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.28793054
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2059632
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.202268
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22566853
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19558656
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18704877
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27869049
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25741658
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21761888
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17850443
M21183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25516579
M21183	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.17218212
M21183	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2131907
M21183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2057322
M21183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1789787
M21183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1718292
M21183	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24876965
M21183	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1796935
M21183	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2927482
M21183	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2097843
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.171301
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2830512
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1774584
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2497183

M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2185525
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1891651
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2659684
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22374397
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.171301
M21183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1857858
M21184	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2121357
M21184	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2883233
M21184	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.28490027
M21184	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2521237
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.189329
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1884703
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2202331
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.26585582
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2516793
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1816277
M21184	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1931238
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2311598
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2649781
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1982154
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.20354846
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1892729
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2328887
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2335279
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1833792
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1981966
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.27579611
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24152331
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2389398
M21184	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22021463
M21184	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20777561
M21184	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.300115
M21184	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32014247
M21184	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18497469
M21184	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2806125
M21184	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2988934
M21184	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1787201
M21184	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2076279
M21184	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.2865171
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1777314
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1972166
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20111831
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3614827
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17798984
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18086111
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2683947
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1893687
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2840324
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2944228
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.24424084

M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.1972166
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.17633444
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.19206314
M21184	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2428504
M21184	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.20684352
M21184	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2024107
M21189	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19247215
M21189	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.24800387
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21402006
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30472614
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19391306
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.36611958
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.20069466
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.3220866
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29299332
M21189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.52928637
M21189	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20334933
M21189	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.35102711
M21189	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25851652
M21189	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.56731897
M21189	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.24204207
M21232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20682129
M21232	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1819965
M21232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2481774
M21232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3428362
M21232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1864898
M21232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2299182
M21232	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2145943
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1905983
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2633057
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.196082
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.17935
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2341208
M21232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18809748
M21232	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2311091
M21300	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.22010848
M21300	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2434754
M21300	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2128162
M21300	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.214143
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22999624
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.21379709
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27678863
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2480061
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22167439
M21300	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25647061
M21300	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21200488
M21300	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22487708
M21300	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22069313
M21300	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24298155
M21300	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24093228

M21300	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36320112
M21300	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.19531319
M22116	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0873871
M22116	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	(0.09690409
M22116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.095258
M22116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0801659
M22116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12356271
M22116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.08033926
M22116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08543037
M22116	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0836453
M22116	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08937949
M22116	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09138789
M22116	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09699206
M22116	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.102359
M22116	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08884304
M22118	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0884614
M22118	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1007258
M22118	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0996676
M22118	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1257683
M22118	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.174217
M22118	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0799305
M22118	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	(0.08887598
M22118	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	(-0.0850692
M22118	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0825212
M22118	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0825651
M22118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.090863
M22118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09106821
M22118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0913254
M22118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0941849
M22118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0904883
M22118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0945268
M22118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0915538
M22118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0918985
M22118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0942898
M22118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0934742
M22118	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1080333
M22118	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0789223
M22118	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0849138
M22118	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.084316
M22118	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0825833
M22118	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0784754
M22118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0996431
M22118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0840853
M22118	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10619722
M22118	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0868695
M22118	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0801726
M22118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0882805
M22118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1214994
M22118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.089878
M22118	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0805285

M22118	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0881905
M22120	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1093937
M22120	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1137249
M22120	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.083257
M22120	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1016525
M22120	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0953215
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0967997
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1341359
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0942205
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1069195
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.100295
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14532937
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09913348
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18562622
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1145677
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15544267
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.125415
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1018865
M22120	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22507153
M22120	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1012802
M22120	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.105621
M22120	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.104325
M22120	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0937969
M22120	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0912802
M22120	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1062419
M22120	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.081051
M22120	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22658073
M22120	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.112912
M22120	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.160429
M22130	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0983744
M22130	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1608669
M22130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0865665
M22130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0800771
M22130	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08217166
M22130	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1002587
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1259659
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1031884
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0915918
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0820547
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10808141
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0781026
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0807226
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.080293
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08228479
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2114759
M22130	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15357004
M22130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1164655
M22130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1016891
M22130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0789448
M22130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1017223

M22130	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1430817
M22130	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.1394427
M22130	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum.f__	-0.14489
M22130	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.13173458
M22130	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia.f__	-0.0911692
M22132	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.12489814
M22132	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	0.08896059
M22132	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1028749
M22132	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.08261336
M22132	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0976127
M22132	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus.f__	0.11105013
M22132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.140326
M22132	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.f__	0.11801217
M22132	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.1325267
M22138	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	0.08194669
M22138	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides.f__	0.08659946
M22138	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides.f__	-0.1224532
M22138	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus.f__	0.07536735
M22138	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus.f__	0.11145356
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae.g__	-0.1041194
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium.f__	-0.2741469
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium.f__	0.08082132
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium.f__	-0.2363194
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium.f__	-0.0802133
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.10421867
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.21718438
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.13473005
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.10304461
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.11066173
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.08574174
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.14755349
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.09584477
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	0.15182577
M22138	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.f__	0.16416006
M22138	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08873579
M22138	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1311876
M22138	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08178348
M22138	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.1210818
M22138	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria.f__	0.07603612
M22138	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum.f__	-0.097266
M22138	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.07366001
M22138	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.07826728
M22138	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia.f__	-0.196459
M22176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1473462
M22176	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1286261
M22176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides.f__	-0.1320827
M22176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides.f__	-0.0920884
M22176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcus.f__	-0.0981081
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium.f__	-0.1660923
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium.f__	-0.1414878

M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.102057
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09666348
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1050632
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1056115
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1174144
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1170628
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1171894
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0863141
M22176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15009054
M22176	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1088814
M22176	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1223058
M22176	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1584363
M22176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0936193
M22176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0984068
M22176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1208284
M22176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13919034
M22176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1096339
M22177	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.098651
M22177	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1113241
M22177	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09186451
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08110717
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1008784
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.07980648
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0795106
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1045717
M22177	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1154853
M22177	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0891879
M22185	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0790014
M22185	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0790471
M22185	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.12056136
M22185	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09463888
M22185	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08552287
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1434977
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1189743
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10741998
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08568723
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13336956
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15835815
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1027104
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15880177
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0979179
M22185	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24939608
M22185	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0858863
M22185	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0880509
M22185	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.0859277
M22185	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0905137
M22185	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0930367
M22185	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08155724
M22185	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17867097
M22185	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08280925

M22206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19733219
M22206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2007631
M22206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20472881
M22206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2598266
M22206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2599037
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1913969
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28081497
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19591566
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21489958
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.214017
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26501151
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23632297
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.18778925
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.27483506
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25264664
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.2208448
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22213984
M22206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24681763
M22206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.22994407
M22206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24725211
M22206	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.2107799
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1846701
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2320409
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2560744
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2434696
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2040527
M22206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.2126832
M22206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1940494
M22206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20339298
M22206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21005336
M22206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33487907
M22206	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.305496
M22206	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.31027697
M22273	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1775851
M22273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1764074
M22273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2843448
M22273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2624315
M22273	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27425517
M22273	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1869401
M22273	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23526386
M22273	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.25002752
M22273	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.24685016
M22273	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35822694
M22273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19979469
M22273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2099863
M22273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1724872
M22273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.16856469
M22273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.19312727
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16217578
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18632365

M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18567748
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18198785
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.16664681
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.16057393
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16905173
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19254312
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18444968
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2232707
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22863834
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20108781
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17421382
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2299406
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2039749
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32454373
M22273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2186162
M22273	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.2068487
M22273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1768639
M22273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27117237
M22273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26691754
M22273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18702188
M22273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.18330562
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1707378
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2046815
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1761551
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1938004
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.180734
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1614574
M22273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2148502
M22273	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1870744
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.25782618
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1764293
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1697105
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1801068
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20631935
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1893532
M22273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.16844373
M22273	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.18757028
M22273	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.18599013
M22273	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.16258332
M22842	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1334897
M22842	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0908215
M22842	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1085189
M22842	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0838587
M22842	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.07880547
M22842	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.07808242
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1050418
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0846733
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.171141
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0761183
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07554664

M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1036359
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1194071
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08281571
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1155826
M22842	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19845927
M22842	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0874776
M22842	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1056761
M22842	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0911803
M22842	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14709731
M22842	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12977425
M22842	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0820706
M22842	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0883548
M27414	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0982563
M27414	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1092138
M27414	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1269787
M27414	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.078407
M27414	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0809736
M27414	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0801823
M27414	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10241612
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0874811
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1265273
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0889129
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07976312
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0872574
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0950935
M27414	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10288998
M27414	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0780456
M27414	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07914959
M27414	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1165882
M27414	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0956664
M27414	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0890472
M27414	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0861507
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0994084
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1079358
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0846227
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0884421
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1061483
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08140055
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0883648
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0942778
M27414	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.089856
M27447	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0847328
M27447	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.079774
M27447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.096688
M27447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1086019
M27447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0897693
M27447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0862756
M27447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0955181
M27447	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0797666
M27447	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0849002

M27447	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0998069
M27447	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0913382
M27447	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11409597
M27447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1511944
M27447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0978377
M27447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1034368
M27447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07882557
M27447	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1062417
M27447	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0797666
M27513	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11205317
M27513	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1300299
M27513	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1095287
M27513	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0863292
M27513	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11436124
M27513	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0925101
M27513	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12663034
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1040041
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0850593
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1370735
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1067029
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13004531
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14795096
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1397669
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10078604
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1065096
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07637192
M27513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20728487
M27513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1123253
M27513	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0842978
M27513	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0897936
M27513	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.081325
M27513	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16823024
M27513	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1141957
M27514	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1740789
M27514	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.16928249
M27514	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1680185
M27514	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1843045
M27514	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.1872429
M27514	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2222167
M27514	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.17047254
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.21569587
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22663008
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17707768
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2154362
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27352879
M27514	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32447429
M27514	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18286431
M27514	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1661559
M27514	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1660539
M27514	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.212619

M27514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16676286
M27514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20441744
M27514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35755988
M27514	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.163491
M27514	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.19958873
M27536	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24244018
M27536	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3393382
M27536	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.32299148
M27536	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.27229295
M27536	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.30720475
M27536	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.36457927
M27536	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25840877
M27536	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.27175235
M27536	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2523878
M27536	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.25031812
M27536	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.37036733
M27536	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3155096
M27536	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21563673
M27536	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.23462757
M27536	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.2598501
M27536	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23360389
M27536	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2371414
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2305706
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2717473
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2504511
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2981802
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2354627
M27536	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.267578
M27553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3081176
M27553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19233938
M27553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26121242
M27553	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2322324
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2837776
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22796065
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2826585
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24162505
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.2000457
M27553	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18732256
M27553	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.29774445
M27553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18719052
M27553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.26811309
M27553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2756814
M27553	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.25665798
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25096964
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3192891
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.236769
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23926385
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.19935426
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.29710336
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18701825

M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23333766
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21441696
M27553	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2414369
M27553	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24852782
M27553	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24661415
M27553	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1928278
M27553	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.20712142
M27553	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.2324368
M27553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2808487
M27553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.30437409
M27553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.3081176
M27553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.19639585
M27553	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.21186407
M27553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3370013
M27553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2278506
M27553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2323589
M27553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2344344
M27553	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22164409
M27553	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1989444
M27553	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2948934
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.28581697
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2692429
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2162962
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2113407
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.23317512
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2316884
M27553	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2099196
M27553	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.23222118
M27553	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.18115256
M27553	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.1966041
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3916123
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2087903
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24684057
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19216682
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22221183
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23639246
M27665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23147611
M27665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2033358
M27673	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0782336
M27673	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0956108
M27673	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0905187
M27673	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0800042
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1051376
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0919606
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0983261
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1017796
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0975897
M27673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.078231
M27673	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0764731
M27673	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.08683

M27673	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0953302
M27673	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0991478
M27673	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0800204
M27673	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1327172
M27673	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0851255
M27673	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0926083
M27680	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08500496
M27680	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0952873
M27680	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07750775
M27680	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.07859808
M27680	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08865836
M27680	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0985175
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1460664
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1167002
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1990626
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0927407
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15769908
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09404342
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07952491
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1217202
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12512162
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0789502
M27680	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22292024
M27680	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1128449
M27680	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0853579
M27680	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11391066
M27680	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.138824
M27710	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.089576
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0881454
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0889101
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.105214
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828661
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828661
M27710	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828661
M27710	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1599353
M27710	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0821305
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0828661
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10171462
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.13138351
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.084471
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0831723
M27710	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0851194
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0812492
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0894341
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0828661
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0963155
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09119706
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0794537
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.086555
M27710	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.0828661

M27710	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1204821
M27710	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0956821
M27710	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.0859272
M27710	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0881415
M27710	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0774223
M27710	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0872672
M27710	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0828661
M27710	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0902471
M27710	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1073551
M27710	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0828661
M27710	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0790393
M27710	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0782664
M27710	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0828661
M27710	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0828661
M27710	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0893672
M27710	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0846316
M27710	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0930645
M27710	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0888798
M27710	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.078109
M27718	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.11004004
M27718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08194661
M27718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13554768
M27718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12111473
M27718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09410809
M27718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17443715
M27718	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.09391523
M27718	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.17639023
M27718	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.12430383
M27718	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09690538
M27718	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13638271
M27718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10290739
M27718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08797996
M27718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.1332602
M27718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1176395
M27718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1240453
M27718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0927335
M27718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09917208
M27718	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0970421
M27718	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1084065
M27718	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08600007
M27718	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.1334849
M27718	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.13554768
M27718	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.11572487
M27718	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09776634
M27718	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10014762
M27718	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09453779
M27718	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.14551411
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.11786693
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10973626
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.15397233

M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.15257351
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08767454
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.10232798
M27718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09427307
M27718	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1144031
M27718	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.09978469
M27718	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0808698
M27719	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1043083
M27719	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0846994
M27719	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1134454
M27719	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1050797
M27719	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0929463
M27719	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12348278
M27719	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0827847
M27719	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08036513
M27719	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.118825
M27719	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08598213
M27719	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10855846
M27722	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0977394
M27722	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1240683
M27722	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0987809
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.151656
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0906818
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10250294
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1270852
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0892751
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1013736
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09516982
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09462688
M27722	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10013581
M27722	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1314887
M27722	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1151478
M27722	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.10172868
M27722	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0899718
M27722	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08791405
M27722	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.09171833
M27731	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.084621
M27731	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.14948582
M27731	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.084621
M27731	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.0812718
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08010225
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07599057
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07732511
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0818419
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07599057
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0982596
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08642908
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0900414
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.105078
M27731	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10245618

M27731	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1200075
M27731	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__	0.07599057
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.07829756
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.07898753
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09656136
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.07759024
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	0.09113849
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0812718
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0842972
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.0799931
M27731	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.07599057
M27731	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__	0.07599057
M27731	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__	-0.076454
M27731	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__	-0.0893824
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__	0.08424489
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__	0.07599057
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__	0.0793812
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__	0.09506419
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__	0.08315514
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__	0.13494246
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__	0.09310518
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__	0.08045523
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__	-0.0868446
M27731	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__	0.15005457
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07599057
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.08427274
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	-0.0787607
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	-0.1147141
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.1020718
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.08096959
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07633301
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.08861125
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.09185718
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07647301
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.12559327
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.0941439
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07877593
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.0821901
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	-0.0863608
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07984775
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.08123929
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.07796723
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	-0.0857097
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.12742178
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.11363721
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.08499078
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.09597234
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.12220917
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.11483024
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__	0.10831886

M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10110757
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10348085
M27731	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17769328
M27731	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0992404
M27731	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08414543
M27731	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0835789
M27731	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.07739576
M27731	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08000001
M27731	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10064729
M27731	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0759906
M27731	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.1064241
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08134859
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07666304
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0759906
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0844092
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09049203
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1151579
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1104999
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.088156
M27731	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.07702296
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13360859
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10333509
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0827911
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.082772
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12746539
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.07928422
M27731	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.09093901
M27731	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0812819
M27731	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08233715
M27731	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.08046373
M27731	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1118843
M27731	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0912076
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0759906
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08854745
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.07932686
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08183041
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0830704
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10369121
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1249809
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08372649
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12426897
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09563532
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08971091

M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.084621
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0910716
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07599057
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14012831
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08139594
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0820507
M27731	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0759906
M27731	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.11300656
M27731	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08527856
M27731	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0759906
M27738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0905222
M27738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08600173
M27738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0857253
M27738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0890706
M27738	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0792645
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0796175
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.200944
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1484491
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10830642
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11284574
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12309004
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09426202
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17244609
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.117081
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16038302
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1050511
M27738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1909273
M27738	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1309748
M27738	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11099935
M27738	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.083564
M27738	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12651262
M27738	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0818088
M27738	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0779212
M27738	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16109652
M27738	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07906745
M27738	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1377865
M30460	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.23133114
M30460	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17645272
M30460	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.18527034
M30460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16929282
M30460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.20905127
M30460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1668289
M31530	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1384231
M31530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0953577
M31530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0909571
M31530	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1141183
M31530	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1043019
M31532	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1168679
M31532	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1775418
M31532	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0894247

M31532	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1194578
M31532	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	-0.1257279
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellae	-0.1100606
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.09267618
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.1000061
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.16254801
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.12077534
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.09161
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.14827706
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1571635
M31532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.15625588
M31532	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0884063
M31532	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1207823
M31532	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1518051
M31532	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.097496
M31532	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1284312
M31532	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1288859
M31532	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.09976153
M31539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.114293
M31539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.08983097
M31539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.084201
M31539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.08896348
M31539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0848168
M31539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.0867538
M31539	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0843032
M31539	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0860096
M31539	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.085422
M31539	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.0807406
M31539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	0.08867255
M31539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.0862814
M31539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.08800101
M31539	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.0889937
M31555	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__	0.08620528
M31555	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.0988241
M31555	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__	0.08620528
M31555	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09204636
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0831462
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.11926744
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0866451
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0817568
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08706296
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0822289
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09140296
M31555	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0817568
M31555	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1335017
M31555	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__	-0.0817568
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.0869045
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.0918653
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.09204636
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1033358

M31555	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08951253
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.08146
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0817568
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0842563
M31555	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0832909
M31555	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0817568
M31555	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.08246613
M31555	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.08603113
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0843773
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0865431
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.089602
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0829458
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.09749699
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0817568
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0821232
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1048975
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.0980012
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0829305
M31555	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0900975
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0817568
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0889456
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1041582
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0925184
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0990287
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0961392
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1673895
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1322051
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1036939
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0815282
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07999099
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0802661
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1315868
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1151763
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08705314
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1297252
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0968157
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0922721
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1068327
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0821343
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0942569
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08833492
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1154321
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0931439
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1044644
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0934335
M31555	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10313428
M31555	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1072707
M31555	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1042934
M31555	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1153055
M31555	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.08175679

M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0840296
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08175679
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09030153
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08834035
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0972174
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0952329
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.084776
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1198692
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.086811
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0839785
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0877862
M31555	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0826458
M31555	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10233421
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08175679
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0888159
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0951324
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910729
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08620528
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0817568
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09880874
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0857628
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.098128
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0820522
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0840296
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09077847
M31555	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08175679
M31555	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1037722
M31555	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0854029
M31555	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0865173
M31555	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.095361
M31555	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08175679
M31675	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1747543
M31675	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1747543
M31675	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1733757
M31675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19259555
M31675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1727297
M31675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.213202
M31675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.16557915
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.24250584
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.2039052
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2298372
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1670772
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25413396

M31675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.16852854
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18103816
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1733757
M31675	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23709871
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.17119443
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.17836949
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.21459468
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.19434318
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.16876963
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.30028744
M31675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.18182461
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20183219
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18971391
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25191886
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20405992
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1680715
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20140422
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26539263
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.27614325
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21234161
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.19664552
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19976417
M31675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2257965
M31675	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.18914449
M31675	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.19936996
M31675	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.19296228
M31675	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.2766826
M31675	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.189014
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.271327
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2152798
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16220114
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1973306
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1973682
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2246557
M31675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22515441
M31675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1899177
M31675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.2123123
M31675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.16739177
M31675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.20149873
M31675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.16906393
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2739138
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21924642
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.213377
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1709688
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18588338
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21879761
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22268953
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21560802
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1747543
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.16013019

M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2825451
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.18300807
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19296228
M31675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1719968
M31675	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.20173885
M31675	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.17717517
M31675	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.17090647
M31675	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.26159493
M31675	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.19936996
M31787	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2518859
M31787	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1828993
M31787	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2978593
M31787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1896008
M31787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.21583011
M31787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.24471203
M31787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.18092452
M31787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1859813
M31787	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2047379
M31787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1791892
M31850	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1914363
M31850	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1881999
M31850	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1912665
M31850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2213158
M31850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20387306
M31850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25659494
M31850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18757836
M31850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20727337
M31850	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1898262
M31850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2599918
M31850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2120941
M31850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23425689
M31891	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10714262
M31891	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848755
M31891	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.10092747
M31891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08008228
M31891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0868521
M31891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1016619
M31891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0803927
M31891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.094049
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.18378848
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.13344457
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1159046
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1054811
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1009346
M31891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2349776
M31891	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0772548
M31891	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1090529
M31891	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1105631
M31891	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08989014
M31891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1056798

M31891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0981952
M31891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1760542
M31891	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0947234
M31891	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.09756337
M31904	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2064128
M31904	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1926849
M31904	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1928253
M31904	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.3425472
M31904	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.2608242
M31904	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.25677151
M31904	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.37683846
M31904	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2082735
M31904	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.31396325
M31904	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.21777604
M31904	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3454436
M31906	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.22609254
M31906	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillales	0.22838229
M31906	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacterales	0.23045941
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2568516
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.3099121
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.3011795
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2476515
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.2189163
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.2260983
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.22386435
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.2299232
M31906	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.22524783
M31906	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.22875648
M31906	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.31829563
M31906	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.25212243
M31906	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.28190167
M31906	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2896333
M31912	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	0.19761331
M31912	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2776718
M31912	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.22722835
M31912	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.1884289
M31932	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	0.09163169
M31932	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1074273
M31932	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	-0.0858011
M31932	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.1085688
M31932	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.08567298
M31932	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.10715017
M31932	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.08673854
M31932	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.0868051
M31932	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1308488
M31932	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.09754246
M31932	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.1069111
M31932	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.09154755
M31932	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0820103
M31938	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1071892

M31938	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0775063
M31938	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.077201
M31938	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0841213
M31938	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0946728
M31938	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0849766
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0841133
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10021321
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.13054475
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0950493
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08727421
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0829094
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07694132
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.07763641
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08960849
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1112391
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0964705
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0863606
M31938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0844305
M31938	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0935168
M31938	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1169443
M31938	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08062751
M31938	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholde	-0.0903068
M31938	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1245604
M31938	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.086971
M31938	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorob	-0.079058
M31938	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorob	0.08456489
M31938	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseud	-0.079058
M31943	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobac	-0.1969109
M31943	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3787545
M31943	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2757866
M31943	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2828118
M31943	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1785302
M31943	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1916784
M31943	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1767351
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1766282
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20049615
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.6674423
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1853063
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8798742
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4244125
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1813801
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2817016
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2532763
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2492357
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2219929
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2387064
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2394937
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2551764
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1862828
M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18054212

M31943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28415539
M31943	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21670387
M31943	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.27520384
M31943	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2150561
M31943	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingob	-0.1958425
M31943	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1980811
M31943	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1816917
M31943	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1928034
M31943	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfos	-0.2111563
M31943	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylob	0.18366998
M31943	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurel	0.20765336
M31943	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomon	0.20282631
M31943	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrion	-0.1732092
M31943	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomon	0.18114705
M31943	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococ	-0.185212
M31943	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.353853
M32197	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1072301
M32197	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919176
M32197	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1456723
M32197	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0845839
M32197	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10796624
M32197	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0777397
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1278101
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0950395
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10112874
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1890113
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.129957
M32197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11454093
M32197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1101793
M32197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0957095
M32197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0809865
M32197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0967075
M32197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1619401
M32197	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0802753
M32197	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1244195
M32197	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfos	-0.0925014
M32197	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurel	0.09521335
M32197	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0861119
M32198	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2569415
M32198	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1896096
M32198	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.20538867
M32198	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2680147
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1958974
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.18361693
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2002765
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2216994
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2005028
M32198	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1783507
M32198	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingob	-0.2081304
M32198	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiob	-0.2343203

M32198	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1879406
M32198	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.192394
M32198	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.239003
M32306	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0926091
M32306	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1193567
M32306	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1709914
M32306	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0804831
M32306	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0856838
M32306	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0982046
M32306	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.15966839
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.110363
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1166514
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07967383
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10721586
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10885932
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11556532
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13398119
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1568046
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12452152
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1810508
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0945874
M32306	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28297793
M32306	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1124818
M32306	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0819957
M32306	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0849845
M32306	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09208423
M32306	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholde	-0.1038796
M32306	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23891662
M32306	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1608751
M32342	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2240813
M32342	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2375079
M32342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2445421
M32342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2901487
M32342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30122365
M32342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2035133
M32342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2422177
M32342	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2109776
M32342	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2136369
M32342	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2691321
M32342	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2264914
M32342	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3255915
M32342	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.207981
M32342	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25316114
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.228649
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1924879
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.30736051
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.2211902
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2264673
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2839934
M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.30750824

M32342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3105267
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2775998
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2620775
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2552893
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2901907
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2287005
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2503752
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2654186
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2015584
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2060398
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3037608
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2028147
M32342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2898775
M32342	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2905706
M32342	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.3408335
M32342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2352431
M32342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26749794
M32342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2446638
M32342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2288497
M32342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.20298642
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3426261
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2644354
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3012494
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26267369
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.295715
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2394176
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.1939309
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2459209
M32342	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2472617
M32342	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2083635
M32342	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2980048
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1939309
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2065086
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3317958
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2257727
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2728137
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2705081
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2481774
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2806016
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3065966
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2624952
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2880819
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2065086
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3046982
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2896086
M32342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3006751
M32342	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.3304231
M32342	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2594088
M32346	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1166152
M32346	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08182601

M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934445
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934445
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1117046
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0859842
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08349512
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934445
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0797154
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08149265
M32346	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1159794
M32346	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1169115
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1126168
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1144314
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.113859
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0932858
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0944816
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__(C	-0.1243264
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08182601
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0815352
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0993558
M32346	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08498105
M32346	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.08690958
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1020685
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1070726
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0934445
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1043351
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.099272
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.0797487
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0947295
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0857485
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0865938
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1126392
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0807925
M32346	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1021896
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1217272
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0888231
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0959098
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1208162
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1011257
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1064786
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.117154
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0934445
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1181477
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0855615
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0954298
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1075133
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.097384
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.110804
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0855898
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0917856
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08149513

M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0999028
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16043447
M32346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0934445
M32346	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.087565
M32346	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1011841
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0899806
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0932471
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0816213
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08739028
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1045342
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0952498
M32346	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0830729
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0985423
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0917856
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1336721
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0857596
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1734344
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1104725
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0936733
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0941318
M32346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0934445
M32346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.096091
M32346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1077085
M32346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0864671
M32346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0864892
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0899312
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1104725
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0934445
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0946108
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0844929
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0947978
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0847548
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0949913
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.112845
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1075745
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0864624
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13497039
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1227967
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08814821
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.132406
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.104556
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1526034
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0932471
M32346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08271619
M32346	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0934445
M32346	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0934445
M32346	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1319735
M32346	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0831289
M32346	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0875321
M32346	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1011841

M32349	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07803598
M32349	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10527593
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1163172
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1361617
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09734228
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08399406
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08189295
M32349	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08228809
M32349	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09195728
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1810163
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07810287
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1540735
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09455688
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.08101231
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0795417
M32349	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09199351
M32349	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.0763658
M32349	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08314454
M32349	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.11132772
M32349	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08638235
M32349	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.07751648
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.084587
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0845091
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0791783
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0791574
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.105346
M32349	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09451222
M32349	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0839437
M32349	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0885034
M32349	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07864014
M32349	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0862459
M32349	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07678694
M32349	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.09295568
M32349	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.07816484
M32350	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0857658
M32350	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0916538
M32350	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1206576
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0969135
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0980754
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0833943
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0963038
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0912013
M32350	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0873893
M32350	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0832007
M32350	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0854324
M32350	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0981933
M32350	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0860558
M32350	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0953943
M32350	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0842484
M32350	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0953943

M32352	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.101216
M32352	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0944937
M32352	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0947831
M32352	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0862175
M32352	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1056891
M32352	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1521048
M32352	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0802751
M32352	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0864936
M32352	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.10106732
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0825772
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0908751
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1459428
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10557822
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1049625
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0809878
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0947064
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.12683
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1170728
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.100323
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09828283
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0820381
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0967561
M32352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14806151
M32352	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1170376
M32352	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0932863
M32352	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0949267
M32352	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1417473
M32352	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0981262
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0967165
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.088092
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1032974
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0853075
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1214341
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1121427
M32352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0858966
M32352	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0852222
M32352	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0854017
M32377	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08213342
M32377	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09687856
M32377	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08213342
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0814546
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0981568
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16237801
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17049358
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13023368
M32377	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13843052
M32377	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0825328
M32377	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1063304
M32377	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0808736
M32377	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.11323544

M32377	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.13034457
M32377	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.08465888
M32377	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13432143
M32377	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.12579178
M32377	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09824247
M32377	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0798649
M32377	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0831715
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1176401
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.113684
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08650912
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0825866
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1281425
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1262485
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1230668
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0859776
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0845634
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1257521
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0814401
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09284848
M32377	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1025003
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1720057
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0901607
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0866375
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0974523
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1373896
M32377	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0827453
M32377	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1045086
M32377	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.13782284
M32377	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1122042
M32377	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08030717
M32377	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.16237801
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12900751
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12524344
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11799276
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09322438
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10719886
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0834915
M32377	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09114816
M32377	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08409909
M32377	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08649997
M32377	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.15672019
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09276663
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08603524
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08527779
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09162905
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10123366
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.14754902
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08213342
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09412774
M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.12209364

M32377	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10580809
M32377	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1416205
M32377	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0796322
M32377	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0872735
M32388	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09361983
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1655603
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825965
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0859112
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0855976
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.087893
M32388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0872754
M32388	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0725284
M32388	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1147988
M32388	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0868519
M32388	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0931102
M32388	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0871072
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0835515
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1010024
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.094124
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0949175
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0873235
M32388	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0957801
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.14224335
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09668221
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.27147748
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.1460768
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0740705
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1084698
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1024093
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0781416
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.101828
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15957269
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.15404341
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0838404
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0747064
M32388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0788339
M32388	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0756011
M32388	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0722711
M32388	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08819083
M32388	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0904495
M32388	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0870909
M32388	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1078654
M32388	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0762419
M32388	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09864667
M32390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0906999
M32390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1049101
M32390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0946805
M32390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.096616
M32390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1036067
M32390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0999048

M32390	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1359231
M32390	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0846449
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13627267
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11688398
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14670389
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0961375
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13183689
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1313109
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0830319
M32390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1396407
M32390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1046347
M32390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0993969
M32390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1153226
M32390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1326529
M32390	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1326881
M32390	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0845819
M32390	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0886724
M32390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0997655
M32390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1088524
M32390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.091243
M32390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0890028
M32390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12511792
M32391	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0979806
M32391	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0891036
M32391	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.083995
M32391	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10013027
M32391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12826753
M32391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0829878
M32391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.09476339
M32391	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0968629
M32391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0925459
M32391	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0990313
M32398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1105882
M32398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0935751
M32398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0726417
M32398	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0715812
M32398	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0837515
M32398	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0898026
M32398	genus	k__Bacteria.p__Bacteroidetes.c__Saprosiprae.o__Saprosiprales.f__	-0.1144317
M32398	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0871398
M32398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0815125
M32398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0716776
M32398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1218923
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17494483
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25164183
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0777532
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0928776
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0728016
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1357568
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1084606

M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12831378
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10477
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08433496
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0897253
M32398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1579011
M32398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08599545
M32398	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0780861
M32398	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1541088
M32398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1029583
M32398	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07418405
M32398	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0757356
M32398	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1063972
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.088743
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.07365121
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0819221
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0825604
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0838572
M32398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0818266
M32398	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.11290281
M32401	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0841818
M32401	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07692268
M32401	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11252451
M32401	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.12341245
M32401	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10729057
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1212566
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.15794
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2204911
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0947374
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11361037
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11701482
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12172029
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12111572
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11967881
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0899449
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08413457
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08778171
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08820458
M32401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18576381
M32401	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0786285
M32401	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0985897
M32401	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1024772
M32401	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07982813
M32401	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1173141
M32405	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0857681
M32405	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0812266
M32405	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1483207
M32405	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0894964
M32405	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0976052
M32405	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0956177
M32405	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08838131

M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1356807
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1686115
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2110625
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1891549
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1026576
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09021615
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17319235
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09159522
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2379146
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0987818
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1131216
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17636199
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1829122
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10860906
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0945803
M32405	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26527502
M32405	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0802871
M32405	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1010086
M32405	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1435015
M32405	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1536774
M32405	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07832633
M32405	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0815742
M32405	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1868013
M32405	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1049345
M32405	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0956127
M32405	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25710397
M32405	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.183276
M32413	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.32163619
M32413	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1979283
M32413	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.32163619
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2630806
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2159092
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2159092
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23017512
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2856519
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2734277
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2159092
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2678115
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29479385
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1911673
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2630806
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2734277
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.22625
M32413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2630806
M32413	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2734277
M32413	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2630806
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.254097
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2630806
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.312659
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2252996

M32413	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.28568335
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2989718
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.2734277
M32413	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.2401166
M32413	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.2734277
M32413	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.2631038
M32413	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.27083888
M32413	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2630806
M32413	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.29062471
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.2282058
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.2117443
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2734277
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2159092
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2137481
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1984514
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2967603
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2090415
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2397773
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2249737
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.2911447
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.2524157
M32413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconost	-0.2786841
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2734277
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2928082
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2214373
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1981144
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.24192605
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.294051
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.20315785
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2449907
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2328752
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2630519
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2410227
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2159092
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1936524
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26336954
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3852141
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2591291
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3301578
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibac	-0.2181837
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.2069862
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.3200512
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.275029
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2851957
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.28172683
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2300316
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3725687
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2648666
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2831423
M32413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.2159092

M32413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.214763
M32413	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.223623
M32413	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f	-0.251186
M32413	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f	0.31319476
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f	-0.2348008
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	-0.2630806
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	0.28253817
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	-0.2347698
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f	0.29095259
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f	0.32304146
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f	-0.217702
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f	0.23017512
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f	-0.2038412
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f	-0.2149123
M32413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f	-0.2553628
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2408081
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2723138
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	0.2626251
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	0.26257952
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2784089
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2587527
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2281066
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	0.27891581
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f	-0.2474328
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f	-0.2042641
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f	-0.2251309
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f	-0.2118126
M32413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f	-0.2159092
M32413	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f	0.25711796
M32413	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales.f	-0.2855124
M32413	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f	0.20333728
M32413	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f	0.26329247
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f	-0.2828522
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f	-0.2864979
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f	-0.2159092
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f	-0.2081526
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f	0.32410426
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	0.22892057
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.2075505
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.3365854
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	0.26364019
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.3397096
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.2398975
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f	-0.2734277

M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2475213
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2943408
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.251598
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.32163619
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2513332
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2648599
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2734277
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30083018
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2630806
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2081526
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2791885
M32413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.29773778
M32413	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2159092
M32413	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2159092
M32413	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2603573
M32413	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2181747
M32413	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2630806
M32413	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2067533
M32413	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2040465
M32415	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0844151
M32415	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.08942033
M32415	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.09707428
M32415	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1123626
M32415	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.08933552
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	0.08715331
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.15471687
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09655681
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0813048
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08442858
M32415	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1015978
M32415	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10274048
M32415	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0922918
M32415	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0818106
M32415	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07652607
M32415	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1007216
M32415	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicro	0.09236292
M32418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1044582
M32418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894911
M32418	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1021164
M32418	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08380205
M32418	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0830498
M32418	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0882147
M32418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1922104
M32418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1213339
M32418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13326755
M32418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08688804
M32418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1629634
M32418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08952676
M32418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09972257
M32418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0999048

M32418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.1128246
M32418	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1592328
M32425	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24135785
M32425	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2145237
M32425	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.2409765
M32425	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.2123288
M32425	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.20027786
M32425	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.26540522
M32425	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.26693274
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.2367064
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.5710863
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.6848484
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.3428765
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.18320401
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.24107202
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.506617
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.200518
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.19891796
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1913879
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas	-0.2326636
M32425	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.3131858
M32425	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1934647
M32425	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2908319
M32425	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2100959
M32425	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.22565582
M32425	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1948647
M32425	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonas	0.19183092
M32425	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.4217792
M32426	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23767823
M32426	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2795401
M32426	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23284848
M32426	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.26377389
M32426	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.39369961
M32426	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.2800729
M32426	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.29801484
M32426	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2757725
M32426	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.27052184
M32426	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcus	0.24077955
M32426	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus	0.25380142
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.2357843
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	0.21207711
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	0.2137872
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.37249321
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.25497462
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.31937893
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.1914087
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.35491499
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.21881834
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	0.25704372
M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.22486071

M32426	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1850036
M32426	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.28059851
M32426	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.26137408
M32426	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1997761
M32426	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	0.2328581
M32426	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21803958
M32426	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2005824
M32426	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2320178
M32426	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20003944
M32426	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22084391
M32426	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.29397347
M32426	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2729556
M32426	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19788405
M32426	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.18893644
M32426	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.21831638
M32445	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19041063
M32445	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1934499
M32445	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.19041063
M32445	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.24524
M32445	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2675499
M32445	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2917109
M32445	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2771249
M32445	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__	0.18467794
M32445	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1977278
M32445	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.175804
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1729919
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1822377
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.370423
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4310824
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3729093
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1683978
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21427947
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24671765
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20285516
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2204909
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2055439
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2728392
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1935279
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.187496
M32445	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24603947
M32445	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2033317
M32445	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2886048
M32445	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1774241
M32445	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.3029166
M32445	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.24908519
M32445	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21121672
M32445	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.19554961
M32445	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1694248
M32445	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.259496
M32445	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1780843

M32445	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2186092
M32445	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.19384337
M32445	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23688123
M32445	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.19041063
M32445	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19688243
M32445	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.205661
M32445	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2231159
M32446	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2252424
M32446	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24431963
M32446	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3011768
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.20724525
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3581879
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1937781
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1878951
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.28175
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2232925
M32446	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2033798
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.179041
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3923264
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4668447
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3548643
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18249744
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21409801
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2674145
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2428693
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2656021
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2121139
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2151004
M32446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.33015407
M32446	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.204318
M32446	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.2446512
M32446	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1899495
M32446	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2157959
M32446	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18872897
M32446	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1851862
M32446	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2140805
M32446	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21993315
M32446	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3330871
M32446	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.17830188
M32446	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1906055
M32446	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3837174
M32446	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.19140547
M32446	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2205693
M32446	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17090413
M32446	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3108534
M32446	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.176035
M32453	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.2118657
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23181612
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2208494
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27420096

M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21300689
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23164856
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26745566
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26745566
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178504
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23096356
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2184142
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26745566
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21512984
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2155918
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21300689
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178504
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21652038
M32453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21300689
M32453	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.2521502
M32453	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	0.21178504
M32453	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	0.21300689
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.22425213
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21300689
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22418614
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2118657
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.21178504
M32453	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.22121882
M32453	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	0.21178504
M32453	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	0.19096641
M32453	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.2083095
M32453	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.21300689
M32453	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22595462
M32453	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.1983647
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21178504
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.26745566
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2114471
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19551574
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.21730988
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.22492219
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.22719219
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.21609058
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.21917577
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20334576
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.2511493
M32453	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.40594764
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.21178504
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.22129063
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.2465601
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2017622
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27082129
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26745566
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22160092
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19764431
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21174387

M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19074248
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.24405101
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.226159
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.23244516
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.2168883
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1992449
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20066267
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22692461
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22458453
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25190192
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1913717
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32704191
M32453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.26745566
M32453	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.2775271
M32453	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20669053
M32453	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23925381
M32453	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.32540295
M32453	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2117849
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.22867238
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25288139
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21300689
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2117849
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22181826
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23522368
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.26479789
M32453	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23852728
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22606264
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21849649
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25413238
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19494801
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.25367007
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.20919017
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21751555
M32453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.26745566
M32453	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.21275257
M32453	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.20089751
M32453	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.26586505
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2117849
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.23072824
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.20543394
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.26745566
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19155876
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23653096
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22755325

M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22460552
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.21028702
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.2041076
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1936654
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21178504
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.34856766
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20268398
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21300689
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.27522796
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21091244
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2209061
M32453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2117849
M32453	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.26207195
M32453	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.26745566
M32453	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.26745566
M32453	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.22723026
M32453	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.20848404
M32453	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.22612537
M32453	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.33459397
M32453	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.2069848
M32453	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21300689
M32453	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.19765184
M32453	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.2038619
M32453	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2117849
M32455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.084398
M32455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0898094
M32455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0913583
M32455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0813718
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1385137
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1795134
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1133105
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0828361
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09902283
M32455	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0872929
M32455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0858517
M32455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0840939
M32455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1284592
M32455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0841555
M32455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0866402
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0927895
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1124431
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1710526
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1004585
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0911707
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1380557
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09177067
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1139786
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1124758
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0967649

M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0923978
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.07927
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1176137
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0851259
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1534137
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1680352
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0929376
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1127306
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1035195
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.125297
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1223545
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0899529
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1074049
M32455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1139387
M32455	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.083259
M32455	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.099875
M32455	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0854455
M32455	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0860253
M32455	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0854954
M32455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09622072
M32455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1076255
M32455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0932629
M32455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1076956
M32455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0958558
M32455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1037585
M32455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1188318
M32455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1311232
M32455	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11192594
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0826887
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0821916
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.10567
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1018049
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1747131
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1040028
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0962516
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0964087
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1073644
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1404723
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1028663
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1029097
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0998329
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08000301
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0821916
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0824418
M32455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0838044
M32455	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0989398
M32455	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1084831
M32455	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0860253
M32457	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.3555299
M32457	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2904317

M32457	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2097726
M32457	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.2756664
M32457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2278462
M32457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2501299
M32457	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.3065873
M32457	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	0.25387185
M32457	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.2309903
M32457	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	0.23595862
M32457	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutaceae	0.22852739
M32462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.2163185
M32462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.2791979
M32462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.2250764
M32462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.23454997
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	-0.2662453
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	-0.2288761
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	-0.3324913
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	-0.2409237
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	-0.2395503
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.2186745
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospir	-0.3048601
M32462	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__	-0.2276567
M32462	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__	-0.2851425
M32462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2496237
M32462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacter	-0.2270894
M32462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.2451825
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2547961
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2446467
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.5583067
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.3233588
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.2644839
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2676089
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2076183
M32462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.25370146
M32462	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2376037
M32462	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospira	-0.2089953
M32462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	-0.2623926
M32462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2367103
M32462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2636942
M32462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2333414
M32462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonas	-0.2774254
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.20121398
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.29304611
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.20045456
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.20046892
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.20609417
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2392929
M32462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocycla	-0.2153491
M32462	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2217197
M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonas	-0.2242305
M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonas	-0.1998372

M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26449755
M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22442994
M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2293807
M32462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2739261
M32462	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2388995
M32462	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.3082226
M32462	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2125877
M32462	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2089953
M32489	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0897329
M32489	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09610919
M32489	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0942305
M32489	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1286169
M32489	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0889251
M32489	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.0871752
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0868256
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0862397
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0853277
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1002094
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0879541
M32489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0994428
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0947498
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11663074
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0998873
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0796266
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0809097
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09400671
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08283091
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07956744
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1003922
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0884931
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1053286
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0782184
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0929917
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0920417
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0821246
M32489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1265654
M32489	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1041147
M32489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0960558
M32489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0999304
M32489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0994251
M32489	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.110573
M32489	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0873432
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0857288
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930014
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0900912
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.095754
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0857288
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0911612
M32489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1043154
M32492	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1085162

M32492	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0960382
M32492	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1162613
M32492	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0895214
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0871716
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0908171
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1199866
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1183121
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0846728
M32492	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0989364
M32492	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0980688
M32492	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0932424
M32504	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0744162
M32504	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1009604
M32504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0874482
M32504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.07696366
M32504	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1023913
M32504	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0928548
M32504	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.092463
M32504	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0811834
M32504	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0766227
M32504	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0810347
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0829644
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3045696
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2477402
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1241465
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0763268
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0767085
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0953994
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1044162
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.102187
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1009183
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0900894
M32504	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0753572
M32504	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1035186
M32504	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1565915
M32504	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13614611
M32504	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.078951
M32504	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0725508
M32504	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1028658
M32504	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1369138
M32504	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08136722
M32504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07685104
M32504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0724633
M32504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13384059
M32504	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0930879
M32504	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2143234
M32506	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.19803483
M32506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21921845
M32506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19409779
M32506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1991587

M32506	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19803483
M32506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2417321
M32506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1894679
M32506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2422721
M32506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2118372
M32506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3075827
M32506	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.21921845
M32506	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	-0.1862786
M32506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2082958
M32506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19047512
M32506	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2221039
M32562	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3458241
M32562	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2498614
M32562	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2360655
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4654222
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4752521
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.31575
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22375631
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2447144
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2101837
M32562	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27618807
M32562	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2624377
M32562	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3669444
M32599	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.24666354
M32599	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.33441771
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2141984
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18424848
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21910248
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26602511
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3011271
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23005276
M32599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28343393
M32599	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1898972
M32599	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4621
M32599	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30083945
M32619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32767734
M32619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2518948
M32619	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2293736
M32619	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.28698022
M32619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.319567
M32619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.23322111
M32619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24300373
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5381114
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8046436
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3868822
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30758643
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28033215
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24600914
M32619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3656435
M32619	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3492393

M32619	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae	-0.5617526
M32620	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	0.10590769
M32620	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcales	0.09235624
M32620	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.12865808
M32620	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.09073475
M32620	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.09137174
M32620	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	0.08848323
M32620	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.11053839
M32620	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.1086268
M32620	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.0857642
M32807	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1768462
M32807	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2598115
M32807	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacteriales	0.23981317
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2343001
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2317608
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.31189
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.2804054
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.17755708
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.17799981
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.19013116
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.38182726
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	0.28288635
M32807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.31777495
M32807	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.17981654
M32807	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.322425
M32807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2054939
M32807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1806229
M32807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.22340121
M32807	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__Anaeroplasmatales	0.21384539
M32980	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2010431
M32980	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2489225
M32980	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2324698
M32980	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	-0.2311067
M32980	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales	-0.245823
M32980	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocales	-0.2224432
M32980	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales	0.2275387
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.266375
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.1987133
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.2262778
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.201898
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	0.20339217
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.189091
M32980	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.24407051
M32980	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.2122857
M32980	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.2639033
M32980	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.2142348
M32980	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.1986091
M32980	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.182664
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.25026966
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2529663

M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19119879
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19121258
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28394893
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19896745
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.325665
M32980	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2519663
M32980	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.21421929
M32980	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21939089
M32980	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2387554
M32980	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1885974
M32980	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2721428
M32980	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2348756
M32984	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0871818
M32984	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.081188
M32984	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1134222
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.084995
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0849624
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0843426
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1389752
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0997591
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0945825
M32984	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0857553
M32984	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0880117
M32984	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0834924
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2062913
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1044588
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2789585
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2232743
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1071539
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16872119
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22883395
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0835103
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1618617
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13829583
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1855663
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0925258
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0868596
M32984	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2120937
M32984	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.104631
M32984	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1274941
M32984	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1205583
M32984	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1018625
M32984	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1565751
M32984	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1187351
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08751565
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09685766
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08563406
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0989974
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0950597
M32984	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0943241

M32984	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1533181
M32984	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09763501
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1095456
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999157
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1097511
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0985067
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0876902
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0942853
M32984	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16859031
M32984	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.154765
M33013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1314959
M33013	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1269415
M33013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1025841
M33013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1069341
M33013	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0892891
M33013	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.1116834
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1132762
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1134919
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.120022
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08088062
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0822874
M33013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08448654
M33013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1047056
M33013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11924829
M33013	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1113913
M33013	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1244233
M33021	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.25209277
M33021	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.21671797
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23837278
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1972971
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17195014
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19737782
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20077318
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1798411
M33021	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1803476
M33021	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2585094
M33021	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1904636
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.35470428
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.3845517
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.50655565
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.25677134
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.189758
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3022846
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3042305
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3928108
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3620774
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1909096
M33021	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.5353094
M33021	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.19027265
M33021	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1899922

M33021	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1846322
M33021	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2161566
M33021	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1910975
M33021	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1803279
M33021	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18665837
M33021	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.178135
M33021	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19443921
M33021	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17160882
M33021	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2861813
M33021	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1752739
M33021	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.2122609
M33021	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.33737201
M33418	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2962331
M33418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2756909
M33418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1994023
M33418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22139691
M33418	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3925034
M33418	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.30752122
M33418	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1953526
M33418	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.25096
M33418	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2513634
M33418	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1841566
M33418	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24485907
M33418	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.22964454
M33418	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.27850677
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.3340287
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.1881966
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.183407
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2476258
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2618715
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.187002
M33418	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.2848464
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22131604
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2345639
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22088302
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1866555
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22302983
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18262127
M33418	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.293924
M33418	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.18687139
M33418	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2114162
M33418	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2426896
M33418	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20666967
M33418	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.2265529
M33418	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2756909
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3311342
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2470273
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3096537
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.406046
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21715898

M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2721467
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2379138
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2091787
M33418	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2443162
M33418	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2015444
M33418	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3154624
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.1885036
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.19961582
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1892751
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3596561
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2199856
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2056596
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1943809
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2127677
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3394191
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2356757
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1826626
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1864006
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2305087
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1892751
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2294665
M33418	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2776565
M33418	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.29731438
M33422	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1250328
M33422	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0970321
M33422	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1300215
M33422	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0876868
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1274701
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08012693
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.099268
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.0926216
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1101733
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11094569
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1557462
M33422	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13753153
M33422	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1237962
M33422	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1417842
M33422	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1001562
M33422	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1331484
M33422	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0826289
M33422	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1220265
M33422	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1178049
M33422	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09969609
M33442	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.07875939
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0985688
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1384808
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0859841
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0873398
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837419
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837419

M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0958196
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08089912
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837419
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07920247
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1045815
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1087964
M33442	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1623292
M33442	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0792512
M33442	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1604399
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0805938
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1135217
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1077153
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.086375
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0782673
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0950371
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0825373
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.07875939
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0858399
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08519127
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.097491
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0803586
M33442	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0905542
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0934462
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0814295
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0910202
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0837419
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0802472
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1058583
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0767601
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.1001313
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0847479
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1319475
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0755037
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1282007
M33442	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0790754
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1102142
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1153102
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1028762
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1269382
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0788656
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0837419
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0963497
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08918936
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12923995
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0984599
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0840964
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0833297
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1542536
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2022678
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0915994

M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.091864
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13066059
M33442	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0837419
M33442	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1545482
M33442	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0835923
M33442	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1068979
M33442	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0843421
M33442	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.191031
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1325167
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0785933
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0781096
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08142397
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1258956
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0829077
M33442	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1057423
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09404311
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07819452
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07818593
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0810798
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0785785
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0800653
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1200293
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0879986
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0947833
M33442	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0837419
M33442	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08420888
M33442	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0882043
M33442	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.0945869
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0837419
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0801305
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08463904
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0881597
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08562398
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1037638
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0821396
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.095467
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0921567
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0870963
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11846936
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0801305
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0845789
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07902145
M33442	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1216598
M33442	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0837419
M33442	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0837419
M33442	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0898631
M33442	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1042668
M33442	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1213354
M33442	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0972711
M33442	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1009731

M33442	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae.g	-0.0833101
M33443	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanopyrus.g	-0.0831994
M33443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.g	-0.0968913
M33443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.g	0.08128621
M33443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.g	0.09507111
M33443	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.g	-0.0843609
M33443	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.g	-0.0802643
M33443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.12780415
M33443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.g	0.08262699
M33443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.g	-0.1050464
M33443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.g	0.07937934
M33443	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales.g	0.0790131
M33443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.g	-0.0870487
M33443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.g	-0.0907417
M33443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.g	-0.0888406
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__Aeromonadales.g	0.08576918
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.g	-0.1106801
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.g	-0.1002861
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.g	0.08918813
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionales.g	-0.1379205
M33443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales.g	-0.0896633
M33443	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__Spirochaetales.g	0.08400345
M33443	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcales.g	-0.0917578
M33444	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.g	0.14562598
M33444	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g	0.09031389
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.g	0.13821707
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.g	-0.1262019
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.g	-0.150879
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.g	0.11364605
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g	-0.0859151
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g	0.08525494
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.g	0.09466569
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.g	0.12545242
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.g	0.09184892
M33444	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.g	-0.1816394
M33444	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.g	0.11423019
M33444	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.g	0.17668928
M33444	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.g	-0.0931652
M33444	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales.g	-0.1603285
M33447	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.g	0.09493033
M33447	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.g	0.09252095
M33447	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.g	0.08302644
M33447	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacterales.g	-0.1059134
M33447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.g	-0.1926051
M33447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.g	-0.1568849
M33447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.g	-0.1121577
M33447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.g	0.14166223
M33447	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.g	-0.0867271
M33447	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.g	-0.1424911
M33447	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales.g	0.1017501

M33447	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09746209
M33447	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09439969
M33447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0895582
M33447	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08321296
M33447	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1474586
M33471	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0842855
M33471	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10902792
M33471	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1845186
M33471	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09165747
M33471	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09096019
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1042366
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1628102
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.154041
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11792062
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12996101
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1528917
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16206976
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0856787
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1054215
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24325642
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1304287
M33471	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22352616
M33471	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1215922
M33471	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1566799
M33471	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0952563
M33471	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1209449
M33471	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08035611
M33471	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08243706
M33471	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18531875
M33487	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0873908
M33487	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0974594
M33487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1312428
M33487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08620047
M33487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08888329
M33487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.0897231
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0923872
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0944221
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09368755
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11706907
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18561679
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17418263
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15347136
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20324767
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2102212
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0853824
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18123063
M33487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08250941
M33487	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1156275
M33487	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0791127
M33487	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.120311

M33487	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08389332
M33487	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0849807
M33587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1126284
M33587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0884845
M33587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0801441
M33587	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08568724
M33587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0874228
M33934	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0917297
M33934	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0796672
M33934	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1311518
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0852514
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1480012
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1399552
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1327113
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12401244
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0943527
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12427438
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15917004
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0888692
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16283825
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1749705
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0964902
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0785997
M33934	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15368685
M33934	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1076423
M33934	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1369393
M33934	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1724741
M33934	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09803593
M33934	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1268684
M33935	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10392917
M33935	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0888209
M33935	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0913331
M33935	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1000994
M33939	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09361688
M33939	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0913302
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12881719
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09577328
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08254326
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1442241
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0845771
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10853231
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1024151
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0865648
M33939	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18183646
M33939	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0852842
M33939	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0910479
M33939	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08965391
M33939	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1518221
M33939	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12909717
M33942	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0973105

M33942	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1294225
M33942	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1166205
M33942	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0942798
M33942	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08976052
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1153394
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.09882343
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10973391
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12309491
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08149972
M33942	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11202344
M33942	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08250235
M33942	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.153972
M33942	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0996927
M33942	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1085386
M33942	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0878989
M33942	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0855491
M33943	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10556067
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1040288
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0914575
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14387433
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09278454
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10376453
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14023439
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1170901
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08883875
M33943	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09347589
M33943	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09757906
M33943	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1060053
M33943	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.096095
M33943	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09227484
M33943	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0854765
M33946	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0844735
M33946	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1089788
M33946	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0845517
M33946	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0901715
M33946	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09032989
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.154011
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1689598
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1752556
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11860462
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10530943
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13632719
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21241654
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0775689
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0854997
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0823209
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2133135
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1825492
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0898408
M33946	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16218614

M33946	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.113072
M33946	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0932119
M33946	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1311687
M33946	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0805775
M33946	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1651045
M33946	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.165556
M33946	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0815644
M33946	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1013118
M33946	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1079038
M33946	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1159468
M33946	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16607597
M33946	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0934388
M33946	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1585517
M33949	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococ	0.09657538
M33949	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09172077
M33949	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09293228
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12826168
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10058276
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09029218
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11081682
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18551044
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.14123793
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09723258
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10144238
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10383665
M33949	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12316361
M33949	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0920424
M33949	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1001391
M33949	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10825799
M33949	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0935425
M33949	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.10337273
M33949	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.15237194
M33949	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10982674
M33950	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0880014
M33950	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1274343
M33950	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1158821
M33950	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1054485
M33950	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0889203
M33950	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0900202
M33950	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1230709
M33950	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0979455
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0838735
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1164625
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0907206
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09636905
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08018786
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13620543
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1221656
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.088817
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08128987

M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1462383
M33950	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12630184
M33950	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0796847
M33950	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.079817
M33950	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1218
M33950	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1190108
M33950	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1315357
M33950	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1452038
M33950	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1000831
M33950	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.080956
M33950	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09866337
M33950	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0866041
M33953	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0949972
M33953	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1162202
M33953	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0974834
M33953	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1489237
M33953	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0968217
M33953	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0959753
M33953	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0907571
M33953	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2095958
M33953	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1824946
M33953	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.14065668
M33953	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1325116
M33953	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1138967
M33953	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0846876
M33953	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0976233
M33953	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1094405
M33953	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1030513
M33953	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.092886
M33953	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0959817
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0939258
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1820267
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.122476
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0791452
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11248303
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11369151
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13424144
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1088378
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14959135
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1331941
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0943262
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18841627
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1038325
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08629475
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0994355
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0874496
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0886549
M33953	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0949814
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1210511
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1134301

M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1301305
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.09772152
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0881093
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1009885
M33953	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.1307684
M33953	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.09125485
M33953	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.0791406
M33953	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.0999437
M33953	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1704075
M33953	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1016405
M33953	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.1030947
M33953	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0931761
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardimollicales.f__Cardimollicales	-0.095771
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__Chlorobacteriales	-0.0918588
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.0907214
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.0833753
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales	-0.0918588
M33953	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	-0.0895896
M33953	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.0829183
M33953	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.0820733
M33953	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiales	-0.1361472
M33955	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriales	-0.1081828
M33955	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	0.08394133
M33955	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__Peptococcaceae	-0.0884592
M33955	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae	-0.0801882
M33955	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.0779657
M33955	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.1115587
M33955	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.0830137
M33955	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.0827258
M33955	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiales	-0.0874475
M33959	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	0.08405389
M33959	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.08767725
M33959	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.13007466
M33959	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	0.07767048
M33959	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales	0.08767129
M33959	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alphacyclobacillales.f__Alphacyclobacillales	0.1073569
M33959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.0946255
M33959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.08461094
M33959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	0.10621338
M33959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	0.09792931
M33959	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriales	0.08369487
M33959	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.091731
M33959	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	0.08588135
M33959	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriales	-0.0936261
M33959	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	0.08487816
M33959	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiales	0.10749419
M33961	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.08723154
M33961	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.1248045
M33961	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae	0.0994842
M33961	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales	0.08442484

M33961	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12504691
M33961	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13271789
M33961	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1273868
M33961	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10621542
M33961	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11140579
M33961	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0945816
M33961	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.0885276
M33961	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1029408
M33965	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.18460289
M33965	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1735905
M33965	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.18593304
M33965	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.23351285
M33965	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1928884
M33965	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2180576
M33965	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18595926
M33965	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18131077
M33965	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.21376621
M33965	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21601686
M33965	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.18339265
M33965	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.21277551
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.17416627
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.1929336
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2068666
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27069212
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.1791173
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2048657
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptos	0.22695646
M33965	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18641524
M33965	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.20644664
M33965	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17672732
M33965	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22085218
M33965	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21704096
M33965	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.28516451
M33965	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17950906
M33965	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19774142
M33965	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21307266
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17379816
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.2234757
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.19121562
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26986257
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23698759
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20364194
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19427186
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22661528
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19232948
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21742513
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2234757
M33965	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19729124
M33965	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.18723293
M33965	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.17942463

M33967	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1276774
M33967	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0886556
M33967	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0847968
M33967	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1229123
M33967	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1233391
M33967	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1189614
M33967	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.118222
M33967	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0933589
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09946618
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1072898
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0783007
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08937883
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08783446
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0872625
M33967	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10041591
M33967	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1059498
M33967	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.115709
M33967	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1074084
M33967	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1091998
M33967	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1120753
M33967	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1098329
M33967	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1280314
M33967	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10724117
M33968	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09287379
M33968	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1196693
M33968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1442971
M33968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08901339
M33968	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08320206
M33968	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10714487
M33968	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1069017
M33968	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08836843
M33968	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1207251
M33969	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2957433
M33969	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.220576
M33969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4274122
M33969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.205292
M33969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2097543
M33969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3128647
M33969	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2307879
M33969	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2754856
M33969	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2525064
M33969	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3690822
M33971	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0939539
M33971	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.08701
M33971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0882027
M33971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.0993454
M33971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0912466
M33971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0931637
M33971	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1003449
M33971	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08187928

M33971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07877558
M33971	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09714462
M33971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1334012
M33971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0836798
M33971	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0805098
M33972	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.32320324
M33972	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.32320324
M33972	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.20667579
M33972	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21116678
M33972	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2033939
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.41401055
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.259598
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1929804
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.29622024
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2101949
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20667579
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.237706
M33972	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__i	-0.1914995
M33972	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.20622032
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.4407819
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2147746
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2258042
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2470532
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3911097
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2007602
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.54094137
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.3649066
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2485623
M33972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3686223
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2404133
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4585729
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3441179
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.40323499
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2076786
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1922089
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.4222328
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2557766
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.42118756
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29614417
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2235975
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2468469
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1975326
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2451046
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.231637
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.31355307
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3421451
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2576126
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2597954
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.4522382
M33972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18485417

M33972	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.317976
M33972	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.48858003
M33972	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobium	-0.5895563
M33972	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobium	-0.2386847
M33972	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__Rhodospirillum	0.33556036
M33972	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__Sphingobacterium	-0.207241
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	0.37072106
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	0.18764757
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	0.5240287
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	-0.1990497
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	0.38777961
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	-0.5232172
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	0.39482669
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	-0.1922935
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia	-0.2270775
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseria	-0.216797
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseria	-0.27157
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocycla	-0.1998107
M33972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocycla	-0.265766
M33972	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.35338981
M33972	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2051457
M33972	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacter	0.22572494
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__Aeromonas	-0.228993
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__Aeromonas	-0.2325463
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__Chromatium	-0.2395357
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__Chromatium	0.32366514
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.3247964
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.3590521
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	0.36629376
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.2693862
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.3156679
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	0.45588761
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.1946269
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.3449412
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.2302595
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacter	-0.2702492
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__Legionella	-0.2500231
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirillum	-0.2465333
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirillum	0.32320324
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella	-0.1977537
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonas	-0.2395357
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrio	0.26194805
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonas	-0.1924761
M33972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonas	0.21444106
M33972	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcus	0.20401279
M33972	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3492572
M33973	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomyces	0.20051039
M33973	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacterium	0.21600339
M33973	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.199705
M33973	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.24029608

M33973	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5736118
M33973	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1976334
M33973	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2245796
M33973	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3102469
M33997	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1297922
M33997	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09916043
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1344694
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894696
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928701
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928701
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0980945
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837773
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1344818
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0843818
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928701
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09734751
M33997	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0908381
M33997	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0958877
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1133895
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0852793
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0937
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0939665
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1025475
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0993024
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09916043
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1074053
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.11213891
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.081399
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1046838
M33997	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0920902
M33997	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0826629
M33997	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.08219781
M33997	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.086691
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0985869
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0944313
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0928701
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.111028
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1018452
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.0910709
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1094157
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0883873
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0825307
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0819335
M33997	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08447125
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1269374
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1223378
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.0827764
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0923617
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08114935
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0806208

M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.147551
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1282868
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1147253
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1321081
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0945139
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0906002
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.088087
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0928701
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1064774
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1131777
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.103383
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1208113
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1366521
M33997	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0928701
M33997	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08177584
M33997	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0880976
M33997	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1082679
M33997	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.089046
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0884979
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0816332
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1010244
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.11511812
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1180251
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09160012
M33997	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0891394
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1174234
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.103383
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1093265
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.135418
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0872065
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1321339
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0963328
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0952195
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0904512
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1355084
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08322671
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1157908
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1107857
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1025854
M33997	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0928701
M33997	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1105505
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0955287
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1157908
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0928701
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1076374
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1203846
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.121319
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1416778
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.129106
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0883376

M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1289898
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1042142
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1508604
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0892658
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1052557
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1008576
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1403289
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1076374
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.091235
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.10787
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1337656
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.11201834
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1326824
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.123078
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0816332
M33997	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09365958
M33997	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0928701
M33997	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0928701
M33997	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.092769
M33997	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1143419
M33997	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1008749
M33997	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.089046
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0803095
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0880355
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.08118
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1039915
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0936958
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0831295
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0800976
M34035	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09490619
M34035	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1021031
M34035	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0792453
M34093	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.11446456
M34093	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.083251
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.098157
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11487444
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.079639
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09812487
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0967684
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10820207
M34093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0824511
M34093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.09138535
M34093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.09631888
M34093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.08889135
M34093	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10046971
M34093	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11247384
M34093	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11781436
M34093	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0838101
M34093	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08731348
M34381	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1496814

M34381	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.110343
M34381	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.13384593
M34381	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10181556
M34381	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.07981772
M34381	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08714751
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0809789
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.170483
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1074723
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08006665
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0911041
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1377312
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1860014
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10820375
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1264018
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1891572
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0866877
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09225409
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10033878
M34381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1536703
M34381	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08074955
M34381	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0803462
M34381	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11073919
M34381	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09162799
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0912031
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0927551
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0920048
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1026735
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1750972
M34381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13297984
M34384	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0868755
M34384	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1419244
M34384	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.101737
M34384	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10715583
M34384	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09076283
M34384	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0771413
M34384	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1252117
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1320841
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1886886
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2182668
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1811829
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0974512
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13193775
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09191974
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1426914
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18320498
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0819697
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15582436
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1492664
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1016087
M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1208239

M34384	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18526085
M34384	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.079977
M34384	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0925498
M34384	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.194315
M34384	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0963097
M34384	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0880223
M34384	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1011001
M34384	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2123737
M34387	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08872379
M34387	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08524034
M34387	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0783455
M34387	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08269808
M34387	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1082485
M34387	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08069558
M34387	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0962045
M34387	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07831225
M34387	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.0804636
M34387	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.084717
M34387	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0815381
M34387	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0780139
M34387	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0871911
M34387	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08684039
M34389	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2289808
M34389	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1885867
M34389	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2078399
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2558132
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3162524
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5046449
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2394239
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33118849
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20031996
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.302906
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.42391465
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2393125
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3029673
M34389	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.4086432
M34389	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2244238
M34389	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3041264
M34389	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1886197
M34389	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19837815
M34389	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24997749
M34389	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2962008
M34390	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18111961
M34390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2185578
M34390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2146796
M34390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2751152
M34390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2477691
M34390	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18946794
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3641775
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3229121

M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2294682
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1819212
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2031285
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4019764
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2055414
M34390	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22665193
M34390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2258855
M34390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1764155
M34390	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1871701
M34390	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.17581551
M34390	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2009017
M34390	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1876034
M34390	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1737584
M34390	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2461677
M34391	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.26903776
M34391	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.23803746
M34391	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19854605
M34391	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.2545565
M34391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2086392
M34391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2026492
M34391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.2002929
M34391	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20142441
M34391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2021353
M34391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2167197
M34391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2949723
M34391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2348412
M34391	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2333118
M34393	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.19839403
M34393	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.18426846
M34393	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17892019
M34393	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.19226878
M34393	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1920069
M34393	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2423251
M34393	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21669132
M34393	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24035836
M34393	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2695442
M34393	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.21249692
M34393	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2570852
M34395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36153099
M34395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4274203
M34395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34061142
M34395	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3674162
M34395	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21463663
M34395	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.26819356
M34395	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.2071362
M34395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.29342163
M34395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.34271481
M34395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2046864
M34395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.25485224
M34395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2333743

M34395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2203757
M34395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2116998
M34395	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3497176
M34395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2286744
M34395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24505753
M34395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25041692
M34395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27109745
M34395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23297494
M34395	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.24521866
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.36815675
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24920518
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.22736448
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26654581
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.36769216
M34395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2824092
M34395	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.26804465
M34396	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.11132786
M34396	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.11475355
M34396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.08504287
M34396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09202727
M34396	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.08620993
M34396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.132729
M34396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08853374
M34396	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09939596
M34396	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08770472
M34396	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10569117
M34396	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09064131
M34396	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08610568
M34396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09446484
M34396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08976563
M34396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09446484
M34396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.09226063
M34396	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08916206
M34396	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1143312
M34398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08920618
M34398	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1134054
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1037968
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1389685
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1108401
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08648555
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07508934
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0924442
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.137444
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10629724
M34398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11515059
M34398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0814334
M34398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1600518
M34398	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08016689
M34398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1065811
M34398	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1270584

M34399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1407406
M34399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08164891
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1535753
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1384166
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0979388
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11443554
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12359618
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13601805
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0815432
M34399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14473793
M34399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0834153
M34399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0839085
M34399	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0895753
M34399	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.084738
M34399	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08481655
M34400	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0943112
M34400	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1063813
M34400	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08733632
M34400	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09320919
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1821506
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2170065
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1378077
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12521657
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1048565
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12920721
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11584543
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0987116
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.092821
M34400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0881211
M34400	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0870249
M34400	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1136447
M34400	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0792796
M34400	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1647703
M34400	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1241244
M34400	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1103933
M34400	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0848204
M34400	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.091831
M34401	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2421815
M34401	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1999125
M34401	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.281816
M34401	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3132624
M34401	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2552047
M34401	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2208936
M34401	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2130489
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1991926
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3588628
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4538438
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.570924
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2683762
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21310268

M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.39676341
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25549627
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3567949
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2214782
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2078682
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2305678
M34401	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.522232
M34401	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1950238
M34401	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2211188
M34401	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.3001848
M34401	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2502523
M34401	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30004925
M34404	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851496
M34404	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0839569
M34404	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07878818
M34404	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0774644
M34404	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1216015
M34404	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09244292
M34404	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0742299
M34404	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0827432
M34404	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0773286
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17082128
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.18302729
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0754717
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0843546
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08783507
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07943626
M34404	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.079188
M34404	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1118093
M34404	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.07878818
M34404	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08137362
M34404	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0851022
M34404	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08968856
M34404	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.100491
M34404	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08968991
M34404	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0780478
M34404	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0781898
M34409	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2212384
M34409	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.315853
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3471437
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2674425
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966922
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966922
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2799184
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3382418
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25684325
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966922
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23278818
M34409	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1888325
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.200818

M34409	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1900867
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1888631
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.228833
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.235736
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2615261
M34409	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	-0.1880368
M34409	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.3337583
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2748923
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2337859
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1942953
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1966922
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2793525
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2477906
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.2520691
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2169446
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2580539
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2052281
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.3023951
M34409	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2159372
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.3159279
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1962817
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.364433
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2979965
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1922919
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2035365
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5008723
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2218857
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2748352
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2306181
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21375287
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1966922
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27551865
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2111496
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2769912
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2592773
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1979117
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3094679
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22733474
M34409	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.1966922
M34409	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2498483
M34409	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2259574
M34409	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2414076
M34409	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1962296
M34409	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1844705
M34409	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19435982
M34409	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2438634
M34409	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1909511
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2443944
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.359994
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25891808

M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3290706
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2347607
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2264831
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2279619
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2604317
M34409	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1966922
M34409	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2205531
M34409	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2690518
M34409	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3585814
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2347607
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1966922
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2838346
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.4040646
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2114688
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3389704
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3401687
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3571687
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1983656
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2208404
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3462098
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2620002
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2432158
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2838346
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2931419
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1983023
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2691438
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2657983
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20995037
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3578481
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3246341
M34409	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1962296
M34409	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1966922
M34409	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1966922
M34409	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2216502
M34409	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1899816
M34409	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2035109
M34409	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3352394
M34409	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2414076
M34419	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2374147
M34419	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30311362
M34419	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2990298
M34419	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2393207
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2869022
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2583629
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.30952915
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2692394
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3459658
M34419	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24274916
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.3005922
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.36931709

M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.2659286
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2787697
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3565367
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2418975
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.26822203
M34419	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3782721
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.4047513
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3621853
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2681442
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2493757
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2915963
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2557889
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2486624
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3199189
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25817494
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2127722
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2786596
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2138721
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2814275
M34419	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2235774
M34419	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2405034
M34419	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2335295
M34419	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3881979
M34419	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.271572
M34419	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.24769153
M34419	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3004871
M34419	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3412956
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2267617
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2905723
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3258807
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.235501
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24546296
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3781544
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3398411
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4955622
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2681473
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23840555
M34419	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3367155
M34419	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.469069
M34419	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.292207
M34419	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2903395
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.2681473
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.322532
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2840987
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4291776
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2369109
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3389927
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.4337397
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2378597
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2687438

M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2348472
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.24777663
M34419	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.4033475
M34419	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3646529
M34419	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2234869
M34419	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	-0.3250942
M34419	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2409268
M34419	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2335295
M34424	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0964371
M34424	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11182189
M34424	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0991059
M34424	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0774616
M34424	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10313065
M34424	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0818826
M34424	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10919111
M34424	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0770757
M34424	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0958822
M34424	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0907785
M34437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2011899
M34437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2153989
M34437	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1744942
M34437	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2479254
M34437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22779655
M34437	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.188097
M34437	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1942808
M34437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1783456
M34437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2406906
M34437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18389209
M34437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18533249
M34437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.176896
M34437	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.192728
M34437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1861634
M34437	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18773364
M34437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.22123462
M34437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2072753
M34457	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1138782
M34457	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0966653
M34457	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1204814
M34457	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0787521
M34457	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1044026
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0921347
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12047518
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.079451
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11975829
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1293214
M34457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13656296
M34457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.104832
M34457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1404454
M34457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0882237
M34457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0970441

M34457	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0989184
M34457	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1034706
M34457	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0996331
M35101	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1153639
M35101	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0943864
M35101	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1103413
M35101	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10015761
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1329199
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.175302
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0831867
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2439926
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2017005
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14847008
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0804789
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1042984
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1234618
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08655379
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08077017
M35101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10169612
M35101	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.080974
M35101	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1184402
M35101	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0921532
M35101	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0858931
M35101	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0885058
M35107	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10428898
M35107	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0835925
M35107	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09081396
M35107	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12212275
M35107	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0920106
M35107	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0978847
M35107	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0921741
M35114	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0749399
M35114	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0878816
M35114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1194594
M35114	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0738605
M35114	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08790785
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0944836
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2020212
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2372652
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1083432
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0941374
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12321845
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07930374
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12857985
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0972924
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12605991
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0963307
M35114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21369675
M35114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1289262
M35114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0774339

M35114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1062871
M35114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0746259
M35114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0965877
M35114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1044231
M35114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08520209
M35114	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1777201
M35126	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2007972
M35126	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.23386918
M35126	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2203488
M35126	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.17342072
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28895696
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19212513
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21364877
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21763806
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20518132
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1908151
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17648608
M35126	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1624443
M35126	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.18585551
M35126	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1826145
M35126	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.20676947
M35126	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1760082
M35126	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.193336
M35126	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1925891
M35136	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.078541
M35136	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0815891
M35136	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0903042
M35136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.09625
M35136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08299248
M35136	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1183953
M35136	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0818968
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1281465
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08870804
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1049814
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08463712
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0818251
M35136	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0777208
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0950908
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0869749
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0809595
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0981962
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0891996
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0790448
M35136	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0784719
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1137534
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1368709
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0902981
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09439736
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0884406
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0821018

M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0919242
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0938877
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0923334
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1150106
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2080761
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0965064
M35136	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15508366
M35136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1244192
M35136	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1640649
M35136	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0864568
M35136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0853171
M35136	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08119672
M35136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0796815
M35136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1785005
M35136	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0945827
M35136	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0860343
M35136	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08407832
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.080353
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0881314
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1107655
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1406494
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1268405
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.078659
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0869001
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.081478
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0792053
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0789778
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843315
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12199788
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0881314
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.086853
M35136	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0948754
M35136	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0832056
M35136	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.11957
M35157	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2007876
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1985008
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2005494
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1758067
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17610743
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17620894
M35157	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.4565303
M35157	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2074498
M35157	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2373138
M35157	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22655764
M35157	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17310478
M35157	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1765678
M35157	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1751532
M35157	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1802639
M35157	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1783151
M35157	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.199637

M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1817676
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1777602
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.192854
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18696584
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2001405
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21078393
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2534189
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.205047
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1867857
M35157	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1972383
M35157	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.251885
M35157	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1942406
M35157	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21758132
M35157	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20035622
M35157	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2016101
M35157	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19041114
M35157	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1970312
M35157	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1795377
M35157	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2349102
M35160	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1779043
M35160	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1779043
M35160	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22995919
M35160	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27556356
M35160	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1718276
M35160	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.17711814
M35160	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.21236625
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22531144
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2437948
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1931996
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2130651
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.28078131
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27024609
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1949313
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27483002
M35160	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.32869306
M35160	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.33327022
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.32379734
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2184499
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.1803908
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.16913099
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20866723
M35160	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.1830505
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.266951
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2495698
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2122337
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3842839
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18767065
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29629823
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29074469
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2496528

M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22134883
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20011415
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27734672
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.18678928
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.218634
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20781055
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22136515
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22027472
M35160	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23876557
M35160	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1976242
M35160	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18881534
M35160	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.16971538
M35160	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.29103758
M35160	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.23411666
M35160	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.2454878
M35160	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.33972056
M35160	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.28334247
M35160	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1712325
M35160	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23792671
M35160	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.31170484
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2714677
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.217504
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2174993
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2893338
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2669902
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31900387
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2538461
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26247823
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.1813477
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19880358
M35160	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.27274898
M35160	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2401136
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.29611267
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2194046
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2337989
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17287895
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2186462
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21237211
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.25061777
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.21560957
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1779043
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1915362
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1747853
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17320561
M35160	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19203988
M35305	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.18346603
M35305	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21941823
M35305	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21110759
M35305	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22769954
M35305	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24166632

M35305	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.20589406
M35305	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22273171
M35305	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.24704239
M35305	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.2027527
M35305	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19282633
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2268895
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1753176
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24008972
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2001756
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22741892
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25926379
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19310023
M35305	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19628932
M35305	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2228436
M35305	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21383903
M35305	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.228164
M35305	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17724683
M35305	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17130605
M35305	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22576942
M35305	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20844337
M35305	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21357701
M35305	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17199167
M35305	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18970827
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23532534
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25184142
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18479399
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19342238
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20150894
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21635627
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21192142
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23532534
M35305	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21311883
M35305	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3578391
M35434	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3003923
M35434	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.24540325
M35434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.168471
M35434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1978206
M35434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23924091
M35434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21880186
M35434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.28867264
M35434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29953901
M35434	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.164483
M35434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2017006
M35434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26428588
M35436	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1796684
M35436	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.292633
M35436	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1759424
M35436	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1844819
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.33166848
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.20283503

M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23037664
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27462674
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19988489
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18078991
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22986729
M35436	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18156885
M35436	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.19893
M35436	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17867836
M35437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19322613
M35437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27295508
M35469	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1292715
M35469	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0868528
M35469	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0843057
M35469	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0814545
M35469	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08262918
M35469	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0851403
M35469	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1013883
M35469	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0948902
M35469	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0990475
M35469	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1028719
M35482	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21790329
M35482	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3000927
M35482	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4541387
M35482	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27562693
M35482	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22501755
M35482	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24694677
M35482	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2415355
M35482	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3036144
M35482	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2163907
M35482	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2557834
M35625	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2120704
M35625	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1768072
M35625	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.198053
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.1771276
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2834526
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1912566
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2205093
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1899878
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1786315
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2257355
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17382343
M35625	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2297985
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2705063
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2101123
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2609889
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1906587
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.30790462
M35625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2297959
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1900597
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1812549

M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2777275
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2598904
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17931371
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1719647
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21651166
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1922486
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2669245
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24855623
M35625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25019713
M35625	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3348888
M35625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28616188
M35625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25406602
M35625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24374041
M35625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2781089
M35625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1928161
M35625	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.18877061
M35625	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.24821947
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1687263
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.34413564
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.191916
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19364363
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1776887
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1896958
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2064498
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1741054
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.16950764
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17581618
M35625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1976842
M35625	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.16862934
M35625	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3262081
M35628	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2485456
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2264744
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2373407
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2408731
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.21618
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2086088
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23235419
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22915814
M35628	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25091716
M35628	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2571522
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21479234
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.28416791
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2593196
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2021394
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.28316071
M35628	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22501854
M35628	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.47464789
M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2136152
M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.23147879
M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.23394412

M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2602842
M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.2223318
M35628	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.36084084
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.2645085
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2522161
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2208279
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.2696871
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.2544396
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2452964
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.2622274
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.2177845
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	0.27091549
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.2060436
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.28363089
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.2995587
M35628	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.2203897
M35628	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.3399056
M35628	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	-0.2721007
M35628	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospirales	-0.2084349
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.2363686
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.2111263
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.23884743
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobacterales	0.31947263
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.23969589
M35628	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.24639802
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.3116751
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2810937
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.3528438
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.3193656
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2916977
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.3132062
M35628	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.2771126
M35628	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2890054
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.26247911
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales	-0.2115048
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales	-0.3405317
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.3189326
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2394472
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2628938
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.2887493
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.2141747
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	-0.2115048
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	-0.2648184
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.3433233
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	0.24494074
M35628	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.3105618
M35628	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__Spirochaetales	0.23964166
M35628	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcales	-0.2400562
M35628	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.250021
M35628	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.2084349

M35630	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08537592
M35630	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1072567
M35630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0952543
M35630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0955495
M35630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08742304
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1125946
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1318906
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0947132
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10327796
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11032184
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1549393
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10304891
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1089121
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0778577
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0805764
M35630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17088625
M35630	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.117354
M35630	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0836108
M35630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0828477
M35630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0781058
M35630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0817638
M35630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.151749
M35630	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1687123
M35631	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08115275
M35631	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11099997
M35631	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10795927
M35631	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.12341631
M35631	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.11721273
M35631	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0966873
M35631	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09658152
M35631	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07975467
M35632	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.19622245
M35632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.21250038
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2353171
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19846723
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30493204
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26411664
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2110399
M35632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2939355
M35632	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.34741397
M35634	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1985596
M35634	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1797821
M35634	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.4346018
M35634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1714402
M35634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.18950079
M35634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.17853162
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2068031
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1890352
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2210589
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23913621

M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28612207
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2023398
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1774122
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2777807
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4090267
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.41569374
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3408893
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1710323
M35634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.39305924
M35634	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3045291
M35634	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3111446
M35634	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2164249
M35634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.45955931
M35634	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2630838
M35635	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11608111
M35635	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1475542
M35635	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07834181
M35635	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08524328
M35635	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09523704
M35635	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11938599
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1227185
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1518067
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2351059
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1605406
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07940441
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16300537
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1478511
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10516635
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1005091
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12060085
M35635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23011172
M35635	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1095553
M35635	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09789037
M35635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.103678
M35635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16777742
M35635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10205165
M35635	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1760305
M35637	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2099902
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2202095
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.546174
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2326018
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17360005
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2773659
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.267994
M35637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29619076
M35637	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.475274
M35637	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2214689
M35637	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23215182
M35637	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3015082
M35639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19252211

M35639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2202597
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2038018
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2201761
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2659088
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18337116
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18922474
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22570998
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25043069
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.32985145
M35639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18434568
M35639	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.19790011
M35639	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.20831
M35639	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2962281
M35639	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20324752
M35639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2146642
M35639	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.24186337
M35651	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.098485
M35651	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1396982
M35651	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.10269068
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1319413
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10878941
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0978532
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0864686
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874358
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1198006
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1198006
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0929081
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1334254
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09418234
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1198006
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0948413
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10265205
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0864686
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0929081
M35651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0864686
M35651	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09796415
M35651	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0826278
M35651	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0929081
M35651	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0864686
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__E	-0.0973444
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0864686
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10269068
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1304108
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09908927
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0797006
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0929081
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0930596
M35651	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0908953
M35651	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0929081
M35651	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0912194

M35651	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales:	0.09432041
M35651	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales:	-0.0864686
M35651	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.10173594
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.10899
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0947858
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0929081
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1198006
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1024649
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1104602
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.0816189
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1012751
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1136859
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0924771
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.11274817
M35651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0830382
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0929081
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1138995
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1008035
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08975213
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.095775
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1206843
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0958559
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1002973
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1198006
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0987213
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.086008
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0817326
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1156507
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1040967
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.083922
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1095571
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09610371
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09423271
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1079529
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.085494
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1255452
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0933552
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0891744
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1176471
M35651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales	-0.1198006
M35651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09755111
M35651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0985434
M35651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1304791
M35651	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0817166
M35651	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09290806
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0919056
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.109613
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0864686
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09290806

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M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0957133
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0882944
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08509355
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1155467
M35651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0950601
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1126411
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0940055
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0974955
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0883493
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1114657
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1004635
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1320104
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.118403
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1242515
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1198006
M35651	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0844068
M35651	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08060605
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09290806
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08712927
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1198006
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.104255
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08759312
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1110514
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1183265
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0926635
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0919272
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0981067
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.086859
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0874355
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0806249
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0929081
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0840864
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0883743
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0864686
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.104255
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1370515
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.12173116
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0865572
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1056635
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10166511
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09290806
M35651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0822599
M35651	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1050736

M35651	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1198006
M35651	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1198006
M35651	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1152185
M35651	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1242717
M35651	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0864686
M35651	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09290806
M35665	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.28163057
M35665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29138462
M35665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2215088
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1906472
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.18604524
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.17589473
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.19521571
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18666734
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30828083
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20307457
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18250379
M35665	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.25132516
M35665	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.27463398
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25204744
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.21563041
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.23071027
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1897369
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24501593
M35665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.19940083
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18081902
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2081296
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.2281767
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2069293
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2606606
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18293888
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27474575
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20524827
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21371941
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18034442
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.2674969
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22486461
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.1923253
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24671633
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.19881134
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21885388
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17774951
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28193912
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26558986
M35665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25444925
M35665	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20050322
M35665	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20032095
M35665	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.23118922
M35665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25765218
M35665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.18135632

M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1893236
M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32514989
M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23490288
M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19055916
M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22267185
M35665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.18256201
M35665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.19834107
M35665	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2093313
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26095144
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17814913
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21521195
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18150767
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20667724
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.24053577
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.17654237
M35665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18719969
M35665	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.19536265
M35665	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.18611551
M35669	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2540167
M35669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2507385
M35669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22340663
M35669	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3035477
M35675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09606991
M35675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1055787
M35675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1017008
M35675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09911967
M35675	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.12804996
M35675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1008189
M35675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.081927
M35675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08410259
M35675	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08410458
M35675	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.08969957
M35675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09979782
M35675	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.08072476
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08362334
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1417018
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1053647
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0888834
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08155923
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09075705
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11219069
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.1583362
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08496283
M35675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0795207
M35675	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08803508
M35675	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08326238
M35675	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.0958075
M35675	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1055787
M35675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884444
M35675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.093396

M35675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08016564
M35675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0880939
M35675	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10198611
M35675	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1047283
M35675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07989041
M35675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0842253
M35675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0821767
M35675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0886635
M35678	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0932974
M35678	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.082951
M35678	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.096599
M35678	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0959629
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0811772
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1048224
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0913719
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.09601
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0908739
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.088718
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0971425
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1172331
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0816725
M35678	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1066095
M35678	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.0771351
M35678	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0810916
M35678	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0865224
M35678	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0793393
M35678	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0943685
M35678	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0970336
M35718	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09394933
M35718	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.0749544
M35718	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07552358
M35718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07007516
M35718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0911203
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0925543
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2886775
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2155512
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15865813
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07749873
M35718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07572856
M35718	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1314018
M35718	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09217614
M35718	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1182921
M35718	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.13171029
M35718	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07766916
M35718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0722349
M35718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09518273
M35718	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2233272
M35879	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.11045749
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1029976
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0937081

M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08501574
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09428979
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1310252
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08798412
M35879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08885931
M35879	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0929879
M35879	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1084105
M35879	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1454224
M35879	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10621677
M35879	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1100364
M35879	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08954517
M35892	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0898604
M35892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10374747
M35892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1233051
M35892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1035051
M35892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0897107
M35892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12376047
M35892	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1056063
M35892	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.0898604
M35892	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1001832
M35892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1004236
M35892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09028221
M35892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13837321
M36103	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0899946
M36103	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1062835
M36103	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0908114
M36103	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.07948332
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1107026
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0957035
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0792767
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1068799
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07984249
M36103	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0864098
M36103	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0879694
M36103	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1282605
M36103	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1265058
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.08850838
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1815357
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.141339
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.087544
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.07948332
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0807398
M36103	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1057877
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1063569
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0826175
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1091878
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0964984
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0800192
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0807737
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0818914

M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.08883266
M36103	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0896985
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0905371
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.106656
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1578778
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2305256
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0792085
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0871845
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0848343
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09910547
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08397243
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0938795
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11552656
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07911198
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.080605
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1122535
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1171024
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0998305
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1003036
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1110924
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0826191
M36103	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20041035
M36103	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1092185
M36103	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1100129
M36103	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0896977
M36103	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.12869116
M36103	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1299239
M36103	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08893345
M36103	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09629769
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09554778
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0782465
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1210171
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08271603
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08271264
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0942082
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08105173
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08639948
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.08444
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1521882
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0990601
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0877884
M36103	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0878669
M36103	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08720876
M36103	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.081656
M36103	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0870531
M36103	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0798389
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1081777
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08185211
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08576296
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850937

M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0805853
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0795435
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12887218
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.08999
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0818915
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.079287
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12760931
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1081777
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0883615
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0815833
M36103	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07982677
M36103	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1241143
M36103	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0890829
M36103	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.086735
M36103	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1357918
M36600	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2035431
M36600	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20105162
M36600	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21833981
M36600	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22947781
M36600	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2107301
M36600	genus	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales.f__I	0.23650297
M36600	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18255094
M36600	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.32412457
M36600	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.21908671
M36600	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2008434
M36600	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1801707
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2308773
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2124846
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1769602
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.213609
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20568925
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17649582
M36600	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1806744
M36600	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.18729382
M36600	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycet	-0.2133276
M36600	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22224931
M36600	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.20395347
M36600	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1833906
M36600	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25040058
M36600	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2145358
M36600	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1805456
M36600	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22253122
M36600	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1984034
M36600	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2194206
M36600	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.201445
M36649	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17545695
M36649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.17059684
M36649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.17396284
M36649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21064904
M36649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19385337

M36649	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18036102
M36649	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.18666269
M36649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	0.21173084
M36649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibac	0.17116956
M36649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	0.24101967
M36649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	0.16939502
M36649	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	0.16807668
M36649	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.1726828
M36659	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobac	-0.0860728
M36659	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0900782
M36659	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0909769
M36659	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0990086
M36659	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0911569
M36659	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07981008
M36659	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1102085
M36659	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1295925
M36659	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0817099
M36659	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0974951
M36659	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1107266
M36659	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.0842128
M36659	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.08505079
M36659	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconoc	-0.0853477
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1659603
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehaloc	-0.1504677
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacter	-0.134465
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0948211
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnoc	0.1595793
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnoc	-0.097585
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnoc	0.12012118
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibac	-0.0945841
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.0795624
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.1017563
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0823877
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	0.10932592
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	-0.1344696
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.077139
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11843915
M36659	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12764096
M36659	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.145041
M36659	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.102177
M36659	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1015452
M36659	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0806644
M36659	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyc	-0.0781446
M36659	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfoc	-0.1160404
M36659	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromat	-0.081769
M36659	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob	-0.0882165
M36659	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob	-0.0834647
M36659	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteure	0.09178632
M36659	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0891173
M36659	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0962688

M36713	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10314765
M36713	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828183
M36713	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0872893
M36713	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0917133
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.176347
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2695507
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15086569
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11276705
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12667149
M36713	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12072157
M36713	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1345921
M36713	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1298622
M36713	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0888427
M36713	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11585347
M36713	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.08048315
M36713	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.215465
M36738	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0808701
M36738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11430522
M36738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08254894
M36738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0884764
M36738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09172828
M36738	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0986355
M36738	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08964641
M36738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11277681
M36738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0840558
M36738	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0876361
M36738	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0844579
M36738	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09990127
M36738	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1177619
M36738	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.0801602
M36746	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10524616
M36746	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0864355
M36746	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1449278
M36746	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.100825
M36746	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.11679987
M36746	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09138181
M36746	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08127928
M36746	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1412478
M36746	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12132026
M36746	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.087043
M36746	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1363627
M36746	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11752101
M36747	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08365153
M36747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09650047
M36747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1045985
M36747	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08403638
M36747	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1308261
M36747	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0855665
M36747	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0902551
M36747	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0828095

M36747	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10809812
M36747	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0982901
M36747	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.10200918
M36747	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.08477497
M36747	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09207928
M36747	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.1047301
M36747	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09145221
M36747	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23250756
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08257492
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0872559
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08451762
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0898192
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14352928
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08902517
M36747	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1968043
M36747	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.10064852
M36747	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09650047
M36747	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhol	0.10805226
M36747	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0815232
M36747	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10679741
M36747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09976683
M36747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.11004989
M36747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12092091
M36747	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12482604
M36747	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1269072
M36749	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0891597
M36749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.10250909
M36749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.12673089
M36749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0800463
M36749	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1105628
M36749	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0971188
M36749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09483149
M36749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0955263
M36749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0981267
M36749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0812885
M36749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1271726
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.1851536
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09442181
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.39468142
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.128033
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1158031
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1103744
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0804735
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1524957
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1021898
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13214661
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13486538
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.09409133
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0889416
M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1111921

M36749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1480247
M36749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0863411
M36749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0919168
M36749	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1388622
M36749	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	-0.1004018
M36749	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.09731952
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	0.08942917
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	0.09262242
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1098902
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1049393
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.08543137
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadaceae	-0.1055353
M36749	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadaceae	-0.0868179
M36749	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.0905691
M36749	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0804729
M36749	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.17611519
M36751	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0885593
M36751	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1041412
M36751	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.13358651
M36751	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.0857123
M36751	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.09163354
M36751	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0951806
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.097382
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.13067028
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.12371818
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.12312163
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.09904325
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.13092447
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	0.08322004
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.19767055
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1187151
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.11464348
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.0872222
M36751	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.11584304
M36751	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1155638
M36751	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1070599
M36751	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1074462
M36751	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0985676
M36751	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0851227
M36751	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.09530221
M36751	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1744615
M36751	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07938349
M36751	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.08734762
M36751	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08484386
M36752	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0799473
M36752	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.1173753
M36752	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0856867
M36752	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1169459
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenella	-0.1148044
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.1310301

M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1349635
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13688546
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10079705
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10707632
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08957862
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14178659
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0839926
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08266404
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17089745
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1265122
M36752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20297976
M36752	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0973299
M36752	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0950903
M36752	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0988242
M36752	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2036739
M36752	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0935531
M36752	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13424746
M36752	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0984252
M36754	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0983471
M36754	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0905723
M36754	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837032
M36754	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1012252
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0815091
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10763522
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0957791
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0788725
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0782584
M36754	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0836226
M36754	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07741186
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0787622
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0802825
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0900804
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0834968
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0822799
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.102768
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0925361
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0786734
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1007957
M36754	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0891887
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	0.08526469
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07659078
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0776154
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10884538
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1680455
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1001592
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1075632
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1066895
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0768569
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.091386
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.083597

M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0804838
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07715422
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1030349
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0928389
M36754	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1182147
M36754	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0777015
M36754	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0869047
M36754	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0781966
M36754	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12626709
M36754	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.094817
M36754	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0776708
M36754	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0877539
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0827881
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0875378
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1089055
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0883348
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0903805
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0919009
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0998879
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0842754
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0765283
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1001755
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0941729
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0827881
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.096271
M36754	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0781966
M36754	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0869047
M36770	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10816148
M36770	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08904362
M36770	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08976708
M36770	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09402243
M36770	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09159079
M36770	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10128519
M36770	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08931983
M36770	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11416061
M36770	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12285563
M36770	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09119762
M36808	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0834212
M36808	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1124926
M36808	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09019813
M36808	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08400771
M36808	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.07793444
M36808	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07393725
M36808	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08945542
M36808	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08145492
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1023685
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1179369
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2430758
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1381817
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.092671

M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19138091
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1217598
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11582798
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1236975
M36808	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22305306
M36808	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0815367
M36808	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08688849
M36808	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1054254
M36808	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08029479
M36808	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14976711
M36808	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1697398
M36850	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1704091
M36850	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1917237
M36850	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1921188
M36850	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1879788
M36850	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2184528
M36850	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1889007
M36850	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1859951
M36850	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2244164
M36850	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19635196
M36850	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1719116
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1818029
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1718304
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1760953
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.211992
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.191833
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1992165
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3140666
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2380933
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1749219
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25884126
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18998236
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23340443
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.197775
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2191802
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2131659
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1939183
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2182106
M36850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19440083
M36850	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2163119
M36850	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.220329
M36850	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21308602
M36850	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19918245
M36850	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18429206
M36850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1939183
M36850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1959186
M36850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2824045
M36850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1888944
M36850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.1769662
M36850	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1906028

M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1807128
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1769662
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1800158
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1793592
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1926459
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2018678
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2109423
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1925682
M36850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18549847
M36850	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2103151
M36850	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.24484044
M36850	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1937204
M37058	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2543921
M37058	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2214079
M37058	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2281539
M37058	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2454147
M37058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.266901
M37058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2594636
M37058	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2685571
M37058	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2875413
M37058	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2163389
M37058	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2326844
M37058	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2514737
M37058	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2730363
M37058	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2479785
M37063	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0847468
M37063	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.104128
M37063	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.100246
M37063	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1947579
M37063	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1110661
M37063	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0826959
M37063	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0957078
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08804624
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0819102
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08084076
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0881038
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12274771
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1381635
M37063	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15667158
M37063	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1506621
M37063	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0772909
M37063	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.117303
M37063	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.102774
M37063	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1067644
M37063	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1345026
M37063	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0861067
M37063	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13522975
M37069	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07952496
M37069	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0754603
M37069	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.07952496

M37069	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09731238
M37069	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.09496
M37069	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1005059
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1058981
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10865715
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0788233
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0807601
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12047413
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0937883
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0850565
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0789721
M37069	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0963121
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0816511
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0803771
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0837902
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0829232
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0848236
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0764324
M37069	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.100611
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0840506
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2123038
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2284332
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1172166
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0796982
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07780569
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.108261
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07704587
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0848276
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0858252
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0859444
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0805897
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1340329
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1077182
M37069	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0923649
M37069	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0836865
M37069	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1353184
M37069	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0792397
M37069	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0948442
M37069	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08189521
M37069	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0882591
M37069	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0916652
M37069	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0794136
M37069	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1731382
M37069	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0756227
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0907328
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0826919
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.078295
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0763479
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	0.07952496
M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0826919

M37069	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0786487
M37069	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0796917
M37069	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1464741
M37070	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0793408
M37070	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09165539
M37070	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1013067
M37070	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0841101
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2515703
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2064004
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1531725
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08878348
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17868993
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20971951
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1261846
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16018514
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11065565
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1116877
M37070	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24028335
M37070	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0795779
M37070	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0991845
M37070	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0916925
M37070	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08551376
M37070	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10909276
M37070	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1175902
M37070	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0804952
M37070	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2126083
M37070	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0771646
M37070	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11383298
M37070	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17969448
M37076	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.102206
M37076	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.0800662
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0782622
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.091685
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0913744
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0756267
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0849127
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809868
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809868
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0753489
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09280274
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809868
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0765652
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08025842
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0756267
M37076	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0756267
M37076	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.090682
M37076	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0800581
M37076	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.0756267
M37076	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0756267
M37076	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0800662

M37076	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08040322
M37076	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0810034
M37076	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0813189
M37076	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.0766392
M37076	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.0756267
M37076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0809868
M37076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0851195
M37076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0958569
M37076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0862291
M37076	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1000497
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.098403
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.085906
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0809868
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.086247
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1078485
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0868693
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0757665
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.082224
M37076	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0809868
M37076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1000257
M37076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.078865
M37076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.098377
M37076	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1006611
M37076	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0987217
M37076	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0768605
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0804323
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0756267
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08042033
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0847395
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0858575
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0779385
M37076	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0832859
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0817275
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0775257
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0780728
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0855596
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0799569
M37076	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0809868
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0935166
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0809868
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0832178
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0851321
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0757702
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0756267
M37076	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07996968
M37076	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0809868
M37076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0809868
M37076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0847528
M37076	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0788819
M37076	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0846848

M37076	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0756267
M37091	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18792061
M37091	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17843744
M37091	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.1677633
M37091	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18880617
M37091	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18499058
M37093	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0869501
M37093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0903382
M37093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0857069
M37093	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0886815
M37093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1002016
M37093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1009753
M37093	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0993276
M37093	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0848853
M37093	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0959194
M37139	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2598329
M37139	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2678903
M37139	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2126403
M37139	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.37672156
M37139	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3220608
M37139	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.336165
M37139	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2917213
M37139	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2418686
M37139	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3263954
M37139	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2131328
M37139	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.330082
M37139	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.3178073
M37139	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.256362
M37139	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.3815995
M37139	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2555938
M37139	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2005072
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3052912
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2283246
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.23312005
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2473741
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.281707
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3657824
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3454265
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2599611
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3168764
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37710812
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27716313
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3679743
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2834489
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2193447
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2291585
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2646072
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.5276381
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22244486
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4249951

M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2363901
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2585365
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2236291
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2467248
M37139	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.4670392
M37139	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3952881
M37139	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.366223
M37139	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.206243
M37139	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2688395
M37139	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2427887
M37139	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3171997
M37139	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.24936147
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2135978
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2521303
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2193343
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.60403187
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2202832
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22249428
M37139	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2131604
M37139	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2185986
M37139	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2823317
M37188	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1792042
M37188	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.17037
M37188	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1963854
M37188	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1611378
M37188	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2738091
M37188	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2309245
M37188	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1613526
M37188	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2263011
M37188	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2225468
M37188	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1888134
M37188	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1951059
M37188	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1955928
M37188	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1627775
M37188	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2074718
M37188	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2085565
M37188	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1951121
M37188	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1875184
M37188	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.2099731
M37191	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1783352
M37191	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2408412
M37191	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2339061
M37191	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162154
M37191	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162154
M37191	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2250649
M37191	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162154
M37191	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2391715
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1857788
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.21728946
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2162154

M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2020552
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2068323
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1892079
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1990916
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.2023157
M37191	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.198192
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.1934552
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1853926
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.24471211
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2520609
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2191239
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2913195
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2518702
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2162154
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1848895
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2196157
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoci	0.19016009
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2164479
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1830791
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2293943
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1897243
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2096155
M37191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2162154
M37191	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3215143
M37191	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.184931
M37191	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1975652
M37191	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.202065
M37191	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2120042
M37191	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2072866
M37191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2529686
M37191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.187438
M37191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2220048
M37191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1977046
M37191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2162154
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2162154
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1970335
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1940012
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2150467
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.233272
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1839129
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1952793
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.3064859
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2577953
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21253598
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1821576
M37191	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2144795
M37191	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2162154
M37191	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2162154
M37191	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1871506
M37191	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2506467

M37191	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2279753
M37191	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.21512791
M37196	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.26793435
M37196	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3369766
M37196	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2807578
M37196	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2658703
M37196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.6718636
M37196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6893813
M37196	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.26696329
M37196	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3049489
M37196	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2543406
M37196	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.33830403
M37196	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.4275457
M37199	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.17921301
M37199	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.234813
M37199	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2537431
M37202	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36191528
M37202	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19956834
M37202	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.30394059
M37202	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2468837
M37202	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2356183
M37202	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2036142
M37202	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.188042
M37202	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.27067543
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.7371588
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8388241
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2646561
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30327203
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25458866
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.6364888
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2211954
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24436946
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21132478
M37202	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.28561456
M37202	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3591829
M37202	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2385863
M37202	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26561016
M37202	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.436885
M37203	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36074548
M37203	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.22624865
M37203	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.2164137
M37203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2456936
M37203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.228717
M37203	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.22381672
M37203	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.20769348
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.6495979
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8870421
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2710522
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19607895
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.6425581

M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.2147694
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.189092
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1816687
M37203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19479149
M37203	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.18883781
M37203	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2977816
M37203	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.24301134
M37203	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.4164303
M37207	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.21037359
M37207	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.27100696
M37207	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19534272
M37207	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2173402
M37207	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1984572
M37207	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2874984
M37207	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2269536
M37207	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1875851
M37207	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.17934778
M37207	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18834982
M37207	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1872655
M37207	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2283769
M37207	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1707456
M37207	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2029831
M37207	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2055461
M37207	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2440206
M37207	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.178269
M37210	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.29935866
M37210	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1818616
M37211	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2967161
M37211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34186287
M37211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2765692
M37211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2704572
M37211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2359897
M37211	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.231317
M37211	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2684746
M37211	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2380331
M37211	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.23289725
M37211	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.42304622
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.7557518
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.9499934
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2702614
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2982885
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31942618
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.6696923
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.3937755
M37211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2325205
M37211	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2801752
M37211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.29949137
M37211	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2834794
M37211	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.5158749
M37211	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2688397

M37211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.21343927
M37211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2819168
M37211	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5122793
M37431	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1259708
M37431	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.12106549
M37431	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.08646611
M37431	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1207021
M37431	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.0869351
M37431	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09454103
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1635544
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.244289
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1025113
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12011457
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11935614
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09764109
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10600563
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07493862
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0901145
M37431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08943679
M37431	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08606795
M37431	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08757799
M37431	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.07401438
M37431	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0795779
M37431	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09643617
M37431	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1130997
M37431	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0747558
M37431	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1268601
M37431	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0741733
M37431	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0815497
M37431	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.088168
M37432	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2643695
M37432	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2898825
M37432	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23688771
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2094227
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2562223
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.208024
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3369174
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2164404
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25464991
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3877315
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2489947
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.278559
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17814187
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17463451
M37432	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.46091177
M37432	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2056913
M37432	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.24204154
M37432	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2769195
M37432	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2686837
M37443	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0998728

M37443	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.0790121
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1205673
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.090713
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876064
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876064
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876064
M37443	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07865663
M37443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1000523
M37443	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0803121
M37443	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.07978423
M37443	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0790121
M37443	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1142813
M37443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0876064
M37443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.11874878
M37443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10089711
M37443	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0864613
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10377899
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0876064
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.092719
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0883034
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0879287
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1179804
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10987322
M37443	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0876064
M37443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1215024
M37443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0871784
M37443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1051774
M37443	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0851723
M37443	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08593095
M37443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1228368
M37443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0877497
M37443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1407935
M37443	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0876064
M37443	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0966285
M37443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0876064
M37443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0873783
M37443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08198797
M37443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10998813
M37443	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0820887
M37443	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0876064
M37443	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0876064
M37443	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0797157
M37443	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0960854
M37443	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0999996
M37443	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0864289
M37455	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08362013
M37455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09830816
M37455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13604552
M37455	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0812117
M37455	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0840362

M37455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.08876
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09428534
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08323677
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09842829
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19767588
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.16479453
M37455	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13794093
M37455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09003868
M37455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08683217
M37455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09471842
M37455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08706941
M37455	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.083152
M37455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.15042904
M37455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1440991
M37455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.13453771
M37455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09018423
M37455	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08532212
M37455	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.0984859
M37455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11577711
M37455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08977173
M37455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11835534
M37455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08909725
M37456	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2108181
M37456	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1895696
M37456	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.20040258
M37456	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.17516162
M37456	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2000674
M37456	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2051853
M37456	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23279484
M37456	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2172721
M37456	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.212098
M37458	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08982225
M37458	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0802213
M37458	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.08393699
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1900548
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2627643
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12756953
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09495809
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12406071
M37458	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12708765
M37458	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11335458
M37458	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1153965
M37458	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14127092
M37458	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1292328
M37465	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2005483
M37465	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.226499
M37465	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24724765
M37465	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2231424
M37465	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1792316
M37465	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1863173

M37465	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2746952
M37465	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.26464791
M37465	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1928525
M37465	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2165155
M37465	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.1745499
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2111898
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.2165176
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.3101701
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.255249
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2306366
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2232573
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.24194039
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.23156865
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2218008
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.3192249
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.25233397
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.374525
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas	-0.2065596
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.1912599
M37465	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.39639499
M37465	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.3093328
M37465	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.2127256
M37465	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae	-0.1822238
M37465	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	0.21855197
M37465	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1722477
M37465	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.1998706
M37465	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.229009
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.1800827
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.2316421
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.1806403
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.2076532
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.33040602
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.2559207
M37465	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadaceae	-0.1865103
M37465	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasmatales	-0.2057858
M37465	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcus	-0.2148417
M37465	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1925935
M37496	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.1308961
M37496	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.0997065
M37496	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0801476
M37496	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0853519
M37496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae	0.09993658
M37496	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae	0.08479566
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2007147
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.1551833
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.2640909
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1189256
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.09906632
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.08582835
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.17991485

M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2066808
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11936373
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1474626
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0858851
M37496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2975643
M37496	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1092187
M37496	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.072576
M37496	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1477865
M37496	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1557257
M37496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08708728
M37496	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08872178
M37496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20973849
M37496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10649189
M37496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07532222
M37496	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1912608
M37501	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0851322
M37501	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.078449
M37501	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0796332
M37501	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.078872
M37501	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09462552
M37501	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10344535
M37501	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0780372
M37501	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.09817
M37501	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0759682
M37501	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1007461
M37501	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0867073
M37501	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0931983
M37501	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0754202
M37501	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1231911
M37501	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0783105
M37501	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10663509
M37501	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11760089
M37501	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0784183
M37501	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0902099
M37501	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0815717
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0781278
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0833498
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0831377
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0794563
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0829281
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.078116
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0781278
M37501	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0996565
M37501	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.08227493
M37502	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.086791
M37502	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1244102
M37502	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0870277
M37502	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09652688
M37502	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0827417
M37502	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0910372

M37502	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0791599
M37502	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__	0.08101123
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1097314
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0838433
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.0850393
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0850454
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae	-0.1003672
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.1063943
M37502	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.0806835
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldicoccus	-0.0895063
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	0.08613234
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.0846654
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.0830294
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.0901987
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.0889193
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.0881986
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.0808259
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.08385876
M37502	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.11152916
M37502	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.1008925
M37502	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.0799284
M37502	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.0824959
M37502	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocyclaceae	-0.0907869
M37502	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriaceae	-0.096854
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0908642
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0866739
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0834852
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__Legionellaceae	-0.0909
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirillaceae	-0.0873938
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae	-0.0961049
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae	-0.0825164
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionaceae	-0.1076647
M37502	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionaceae	-0.0830505
M37502	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.0809726
M37502	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiaceae	0.089048
M37506	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.0914887
M37506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.10030511
M37506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.09187708
M37506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae	-0.1105229
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1066848
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.094496
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriaceae	-0.1194325
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.10102411
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.11480108
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	0.09263053
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	0.08502219
M37506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.08443253
M37506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	0.07981247
M37506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1141171
M37506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1056566

M37506	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10121469
M37506	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09066195
M37506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16416951
M37506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08512657
M37506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09263938
M37506	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08619639
M37506	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08591579
M37506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12133343
M37506	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.09564538
M37508	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.20521327
M37508	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.20521327
M37508	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1870841
M37508	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2139939
M37508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.3345608
M37508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2141314
M37508	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.25935047
M37508	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__I	-0.2005752
M37508	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1844344
M37508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2052276
M37508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2461437
M37508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2562075
M37508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.2634274
M37508	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2889968
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2213588
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3274692
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33269495
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1858035
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21486669
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.24788475
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2542771
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20296357
M37508	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2213509
M37508	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1972133
M37508	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.38764174
M37508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31813639
M37508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2232559
M37508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2931324
M37508	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.3171868
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2492353
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.27254401
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2811936
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1961957
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2238135
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1995284
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.228424
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.41482139
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.21522
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.20521327
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23580728
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2492353

M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20104129
M37508	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1953726
M37752	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0880545
M37752	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0955868
M37752	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.09279296
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.108588
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.078483
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1642993
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1009674
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08251608
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0872613
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1301779
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0814442
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0985951
M37752	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17829332
M37752	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0858805
M37752	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1097373
M37752	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08101718
M37752	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08887026
M37752	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0983164
M37752	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11868708
M37752	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1549779
M38102	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09532128
M38102	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0961922
M38102	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1007913
M38102	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09602586
M38102	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.084388
M38102	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07403261
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1553853
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1554141
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2243205
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1454919
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14084994
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09966894
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0872324
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14468637
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07390923
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.170594
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09505943
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0856887
M38102	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2728462
M38102	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0902735
M38102	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1254207
M38102	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15503148
M38102	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085537
M38102	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07738955
M38102	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0953768
M38102	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17849484
M38102	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13012823
M38102	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1713452

M38105	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19937039
M38105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1842618
M38105	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18418815
M38105	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1913341
M38109	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.092191
M38109	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.083095
M38109	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08395595
M38109	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0851958
M38109	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibac	0.08362338
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.0811675
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0890711
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1103941
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08402426
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0829474
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0793533
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11029134
M38109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18128139
M38109	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1028012
M38109	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1150535
M38109	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylob	0.08279013
M38109	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.0809239
M38109	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurell	0.10772961
M38116	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanosp	-0.1418533
M38116	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1372357
M38116	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1379635
M38116	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1001581
M38116	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	0.0951826
M38116	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0889119
M38116	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09442487
M38116	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytoph	-0.0923854
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1792762
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1078897
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.125068
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1217086
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcus	-0.1040151
M38116	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.1248345
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridi	-0.0995158
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacter	-0.1428213
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacter	-0.0873336
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.0915682
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptoc	-0.1344516
M38116	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.118338
M38116	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08870589
M38116	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.0977461
M38116	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1351431
M38116	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1363636
M38116	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1542685
M38116	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.102075
M38116	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1051706
M38116	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1237526

M38116	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10115722
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1298405
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1073288
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.118851
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1193776
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1211585
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0940179
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1212076
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0912402
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1682035
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.11699
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1298405
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1523611
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10198211
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1038283
M38116	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1473364
M38116	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0985381
M38116	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0989328
M38125	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0875827
M38125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0988138
M38125	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0868707
M38125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.091926
M38125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1120143
M38125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0836036
M38125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0950236
M38125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0776638
M38125	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.07906053
M38125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0844454
M38125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1133661
M38125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0971373
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0798913
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0752647
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0827123
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1087087
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0780482
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0761796
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1035137
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1033962
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1039942
M38125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.088845
M38125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0900819
M38125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0937167
M38125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1049341
M38125	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0955929
M38125	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1025251
M38125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0763856
M38125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07794657
M38125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0860899
M38125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08327867
M38125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.076582

M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0918319
M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1029251
M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0782675
M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0792085
M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0855342
M38125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07520305
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0815245
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1024623
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0946783
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0802811
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0849522
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0920328
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.085669
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1043877
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0956789
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0893319
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0896179
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08913868
M38125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0816818
M38125	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0882751
M38125	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1009159
M38127	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.16930012
M38127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24431155
M38127	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1937615
M38127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.199479
M38127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.18708543
M38127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.225302
M38127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.19930659
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19240067
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18480994
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.16438128
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26786271
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.19392572
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2671274
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21450149
M38127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23427027
M38127	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2571044
M38127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2622561
M38127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1729498
M38127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1779063
M38127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22556185
M38127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.19969037
M38127	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.17363596
M38165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11025962
M38165	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1202784
M38165	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.08086751
M38165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0947479
M38165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0854423
M38165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07713896
M38165	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07537222

M38165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.11434268
M38165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08094852
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1158883
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1215019
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1713071
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1226733
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16678144
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07927735
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09684671
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10925131
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1213703
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09798212
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1273308
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10362541
M38165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28710073
M38165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0873471
M38165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1041083
M38165	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15722929
M38165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08996384
M38165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07768486
M38165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19792772
M38165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14610912
M38165	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1395101
M38167	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2191171
M38167	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930574
M38167	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3344375
M38167	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2635122
M38167	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1965555
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5618215
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4841448
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.254281
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2813946
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.3273928
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24217272
M38167	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.225573
M38167	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24849208
M38167	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2053498
M38167	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2346163
M38167	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3114957
M38167	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2252927
M38167	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2029232
M38167	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2129723
M38167	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2021588
M38167	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2385195
M38175	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2419911
M38175	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2416223
M38175	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1923097
M38175	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.2174575
M38175	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22529237
M38183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09549507

M38183	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09570967
M38183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08325013
M38183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11193154
M38183	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1172945
M38183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.09773153
M38271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1416884
M38271	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1086209
M38271	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0886369
M38271	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0961228
M38271	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1059333
M38271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1146581
M38271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.118331
M38271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1406215
M38271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0993872
M38271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0961634
M38271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1310217
M38271	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.0894147
M38271	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.1133644
M38271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1741608
M38271	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1413348
M38273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09357629
M38273	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1160695
M38273	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1558595
M38273	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.08892265
M38273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09510117
M38273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.11029101
M38273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10956448
M38273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11102836
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1189733
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2315806
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.139446
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08770953
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12847236
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21698837
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2524066
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09103055
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1855963
M38273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24541205
M38273	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08614932
M38273	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0926102
M38273	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0987137
M38273	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1111123
M38273	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.15579467
M38273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09681654
M38273	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08641287
M38273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17798696
M38273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.13775171
M38273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.08508801
M38273	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1770346
M38276	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09646252

M38276	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.09646252
M38276	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09023548
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13952595
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.086347
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08985002
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0906243
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09185527
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.086347
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1017036
M38276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1176698
M38276	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1130732
M38276	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1067407
M38276	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0931134
M38276	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.086347
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1035639
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.124825
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0949795
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.12089642
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09023548
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0972338
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.086347
M38276	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0869021
M38276	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.086347
M38276	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0893651
M38276	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.10872197
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1055275
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.086347
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1031879
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1160978
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.11183731
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0870199
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0893688
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1434303
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1135705
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.097695
M38276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.096098
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.086347
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1071174
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1087573
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08221326
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0960721
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0920575
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0963424
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09633658
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0887072
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1128694
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08868728
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1735135
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1117233
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0955327

M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0885837
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0914301
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1302696
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0999532
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.085549
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.088915
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.094276
M38276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12076276
M38276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1148232
M38276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1060873
M38276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0851288
M38276	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0852363
M38276	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1034781
M38276	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.08634698
M38276	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.11106151
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1240115
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08634698
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0894423
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.13190359
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.1012805
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.13952595
M38276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0817521
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10352796
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.088915
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1020197
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0854065
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0819704
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.091078
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.0867868
M38276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08634698
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0883092
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1018247
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0867868
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.118791
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0838079
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1281328
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0825972
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.1234646
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0855126
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1018511
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09646252
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.086347
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0895242

M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15330818
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1211084
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08754846
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0916277
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09231781
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0864484
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09300816
M38276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08634698
M38276	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.109155
M38276	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0973972
M38276	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1016843
M38276	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0894547
M38276	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08634698
M38288	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.21285789
M38288	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.249083
M38288	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2146188
M38288	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.32450206
M38288	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22211534
M38288	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2623152
M38288	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2911214
M38288	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.205053
M38288	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.22196011
M38288	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.19017857
M38288	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20645044
M38288	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22536435
M38288	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1991562
M38288	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2733375
M38288	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19526043
M38288	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.22245555
M38293	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09269344
M38293	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10731757
M38293	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.0869086
M38293	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.14044291
M38293	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0849406
M38293	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0939408
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.12816362
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0915055
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0977369
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1091482
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1661966
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1684253
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0902547
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.0836659
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10350776
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1814363
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09165601
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09382792
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09475238
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.0855748
M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09068664

M38293	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2186209
M38293	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.16761693
M38293	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholde	0.08773763
M38293	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfos	0.11706638
M38293	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob	-0.0832971
M38293	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteure	-0.163178
M38293	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.11931212
M38296	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.105169
M38296	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1016416
M38296	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.106568
M38296	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0833942
M38296	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0853431
M38296	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0827011
M38296	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.11089959
M38296	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.10495117
M38296	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfos	0.11605233
M38296	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.1221696
M38313	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.28570648
M38313	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.28570648
M38313	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18914796
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1677334
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1724833
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4284879
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2653819
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2303918
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1974718
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1811405
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18925747
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1979516
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1986651
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1893576
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19528257
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2278559
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1974718
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1986651
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2358616
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1974718
M38313	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1769969
M38313	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2604435
M38313	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.212561
M38313	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2627752
M38313	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1986651
M38313	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.1974718
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.42547837
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2807658
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3280007
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2478397
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2589871
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2195642
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23111351

M38313	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1974718
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1975385
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18914796
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3051901
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1830037
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2026985
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.184225
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2683389
M38313	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2585051
M38313	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.1986651
M38313	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.186843
M38313	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.20295852
M38313	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.1974718
M38313	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2120996
M38313	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.19955062
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2086995
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1986651
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2074893
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.201801
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2438837
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.209113
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	0.19285894
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.2444398
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2268588
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.3117813
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2231888
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.169965
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3010476
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.281119
M38313	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.187908
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1986651
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.3116591
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17919102
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1850918
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2362281
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.19692288
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3225144
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.40338856
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.325643
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.215981
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2648839
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2331066
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1872983
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2193576
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2129834
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2207258
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1980485
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17756765
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2209117

M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1760523
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2526463
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1737838
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2603007
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2166835
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2057745
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1926127
M38313	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2367904
M38313	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.196301
M38313	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1834498
M38313	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2443783
M38313	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1832059
M38313	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.260877
M38313	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.19866357
M38313	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.35480314
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	-0.1800979
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.368973
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.1974718
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.19866357
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.2620805
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.19989632
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__	0.2890795
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__	0.18925747
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.2205525
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.3392356
M38313	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.182298
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.18489485
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2286785
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.27085833
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.27083044
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.3120319
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1943983
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.35461525
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1861045
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.3506359
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.40225974
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1807914
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	-0.2819985
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	-0.3686271
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.1900312
M38313	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales.f__	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.29133254
M38313	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales.f__	-0.2217054
M38313	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.2570688
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	0.19866357
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	-0.2592525

M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2477823
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.24746
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1989972
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.37248656
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18538449
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2551555
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28070606
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2511602
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2606461
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31237697
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1712468
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.250326
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1709661
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2290162
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.28570648
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2202685
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.180559
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1986651
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35241323
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1974718
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1989972
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1675632
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.261451
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2115071
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19943178
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19866357
M38313	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1968038
M38313	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2334321
M38313	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1795716
M38313	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1974718
M38313	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1822858
M38313	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.19866357
M38395	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1415059
M38395	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1459402
M38395	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1155872
M38395	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1111428
M38395	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0894779
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1326647
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1821266
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0762111
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2794099
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1166336
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.077274
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.078412
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1034868
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0810026
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08066802
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.097642

M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1032029
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1298086
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1308679
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07998827
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1309168
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0961429
M38395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11106044
M38395	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0829881
M38395	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1218156
M38395	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0810902
M38395	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0903926
M38395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09199793
M38395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1027221
M38395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0840545
M38395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0786442
M38395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0844254
M38395	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.213305
M38399	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1903341
M38399	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.102683
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1263837
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1490251
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0819795
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0882405
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1018317
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0876657
M38399	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	-0.0824082
M38399	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0950571
M38399	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1082654
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1814003
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10315503
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2484328
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1148539
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3339821
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2404059
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0791509
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1173805
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0792305
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1296377
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1092619
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0976862
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1499481
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1343239
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0830192
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0829057
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12728652
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1708341
M38399	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08558739
M38399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08876483
M38399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0849378
M38399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1190594

M38399	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0872649
M38399	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.0985599
M38399	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum.f__	-0.1712939
M38399	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter.f__	0.09647445
M38399	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter.f__	0.11423264
M38399	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0833744
M38399	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia.f__	-0.1812553
M38625	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09921121
M38625	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1090583
M38625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0787796
M38625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08237442
M38625	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0868064
M38625	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__	0.07321391
M38625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc.f__	0.07519398
M38625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus.f__	0.08869354
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium.f__	-0.2291277
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter.f__	-0.1653729
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.15966069
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.10981745
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.0750888
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.13592931
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.13117527
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus.f__	-0.079984
M38625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella.f__	0.18825072
M38625	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10361529
M38625	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1032676
M38625	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.13979818
M38625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	0.08910957
M38625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0779022
M38625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.12158259
M38625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.11689183
M38625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.07654593
M38625	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia.f__	-0.1480102
M38652	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.27448914
M38652	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2187316
M38652	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillus.f__	-0.2054925
M38652	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas.f__	0.18897281
M38652	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2617158
M38652	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.199595
M38652	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.2069137
M38654	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.29719539
M38654	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.21555379
M38654	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.21555379
M38654	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.21555379
M38654	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.f__	0.21555379
M38654	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.f__	0.23496202
M38654	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.f__	0.22362114
M38654	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium.f__	-0.3706691
M38654	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum.f__	0.21555379
M38654	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus.f__	0.2537369

M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2377524
M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22003125
M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20760599
M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32292977
M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25961249
M38654	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.21555379
M38654	genus	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.24421077
M38654	genus	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.22576898
M38654	genus	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23876493
M38654	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2239586
M38654	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2328951
M38654	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21629919
M38654	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.26990785
M38654	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21555379
M38654	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.21555379
M38654	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.30056628
M38654	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23024935
M38654	genus	k_Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.21555379
M38654	genus	k_Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.31344397
M38654	genus	k_Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.21555379
M38654	genus	k_Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.27699526
M38654	genus	k_Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.262256
M38665	genus	k_Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08580461
M38665	genus	k_Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10337631
M38665	genus	k_Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09618578
M38665	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13719775
M38665	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1010818
M38665	genus	k_Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0873897
M38665	genus	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09332813
M38665	genus	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08673449
M38665	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08378294
M38665	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1342901
M38665	genus	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0986831
M38667	genus	k_Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21816757
M38667	genus	k_Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.23281791
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1796764
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4125263
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2984283
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3620019
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.35667269
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2771691
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25129463
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1945605
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1835802
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19262581
M38667	genus	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34473701
M38667	genus	k_Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.255175
M38667	genus	k_Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2919286
M38667	genus	k_Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2013138
M38667	genus	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.22111889

M38667	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23298011
M38667	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2509407
M38667	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23648386
M38667	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18677606
M38667	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2935354
M38667	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.25308077
M38672	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09453801
M38672	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13042961
M38672	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0908808
M38672	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.11533083
M38672	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.11487752
M38672	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1171751
M38672	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0921595
M38672	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14049926
M38672	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1068839
M38672	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12504836
M38672	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15868423
M38672	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1205574
M38672	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1044874
M38696	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0827331
M38696	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0832153
M38696	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0999938
M38696	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.11403401
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10009396
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14669431
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.11668888
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08012584
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.10183124
M38696	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0975172
M38696	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.099189
M38696	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0825497
M38696	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09429902
M38696	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.0931831
M38749	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1428774
M38749	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1726485
M38749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.10388241
M38749	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0953514
M38749	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1371541
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.14518138
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.09646849
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09416195
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13422903
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09184359
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10474926
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09008034
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08433703
M38749	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09481936
M38749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1242858
M38749	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0916191
M38749	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0909509

M38749	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09670289
M38768	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1140542
M38768	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0954679
M38768	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1149665
M38768	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.0946121
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.12270814
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10681435
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.0971932
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1130257
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1257702
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1733641
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1679265
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1807335
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09714468
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08387953
M38768	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2101628
M38768	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09097098
M38768	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.13595815
M38768	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08183397
M38768	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08636444
M38768	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1854469
M38768	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0808827
M38768	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.12992471
M39270	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.24385404
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2995927
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3079952
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.375295
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2114849
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2153902
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2680113
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2680113
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3108261
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27133117
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2680113
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2344365
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2114849
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2114849
M39270	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2183336
M39270	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimo	-0.2114849
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2387037
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.38799018
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2414036
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2114849
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2343744
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24385404
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3082412
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25793963
M39270	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2168154
M39270	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.22337255
M39270	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.2114849

M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2985068
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.32136593
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2680113
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2142424
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2439267
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.316942
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2818683
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.3640114
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.3604506
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteri	-0.2286989
M39270	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.3232514
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobia	-0.3931284
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivibrio	-0.2168723
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.3788308
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2998988
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2712952
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacter	-0.242218
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	-0.2681897
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	-0.2680113
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	-0.2151808
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	-0.2131513
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.2775925
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.3604005
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.2179161
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.21874383
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.2276377
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.21131
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2993318
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2606748
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2770556
M39270	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.2680113
M39270	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2749449
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	-0.2585808
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	-0.2402988
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	-0.2637697
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.275691
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2114849
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.28726725
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2743386
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.3840733
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	-0.2142312
M39270	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobium	-0.2764911
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2993318
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.335803
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.3115183
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2320741
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2849878
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionella	-0.3317661
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocycla	-0.286564
M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocycla	-0.3428499

M39270	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2680113
M39270	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2783179
M39270	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2508151
M39270	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2800177
M39270	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.3154313
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2719374
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3317661
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2680113
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3210048
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3661513
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.308744
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4485102
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2891427
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2106719
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4897888
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.289557
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3117641
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2114849
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.258369
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3641857
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.30434403
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3360681
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3171721
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2637697
M39270	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.22443645
M39270	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2680113
M39270	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.24419979
M39270	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f_De	-0.2680113
M39270	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3101797
M39270	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.293333
M39270	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2717854
M39270	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2114849
M39270	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2592631
M39270	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2718893
M39271	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08887057
M39271	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08699517
M39271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1236771
M39271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.15826775
M39271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09539507
M39271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13125705
M39271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.14024059
M39271	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1339797
M39271	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.15852865
M39271	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.11877319
M39271	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09975081
M39271	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.15584312
M39271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10920836
M39271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.11901647
M39271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1169712
M39271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0869992

M39271	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1149939
M39271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1104929
M39271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1099509
M39271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1029104
M39271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0856313
M39271	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1008808
M39271	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.12949345
M39271	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.1236771
M39271	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11561262
M39271	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873503
M39271	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12469164
M39271	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10709931
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11152375
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0954738
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12187708
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.14131569
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0949262
M39271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11317056
M39271	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.087055
M39271	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0845331
M39271	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.087473
M39379	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.18710842
M39379	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2507203
M39379	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.21102864
M39379	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1845992
M39379	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.4170642
M39379	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1861743
M39379	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2723467
M39379	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25277048
M39379	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18885456
M39379	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.56398622
M39379	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2013771
M39379	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2059723
M39379	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.1974406
M39379	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2062161
M39379	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46055953
M39379	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2156557
M39379	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.18767232
M39583	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1066057
M39583	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0861711
M39583	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09412846
M39583	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08751063
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0917966
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2069481
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2360596
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1042921
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11406053
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11266246
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.090971
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09515514

M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1009217
M39583	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16413382
M39583	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.091492
M39583	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11200047
M39583	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1024802
M39583	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08159422
M39583	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1611157
M39587	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12732634
M39587	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1380919
M39587	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0925645
M39587	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0974248
M39587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09922194
M39587	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09856311
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1294005
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1920313
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1096244
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08828049
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0819668
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0794973
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1034827
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.094215
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08873014
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08164558
M39587	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12833909
M39587	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1019275
M39587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09148778
M39587	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08435415
M39587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08364567
M39587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08539112
M39587	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.08219083
M39587	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1244055
M39592	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2305604
M39592	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1877765
M39592	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1935787
M39592	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2589628
M39592	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1874334
M39592	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1754558
M39592	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2304151
M39592	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1932416
M39592	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24001243
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.278043
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2558413
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.475668
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1890419
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21829795
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26084664
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2553229
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2063193
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2985396
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18272684

M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1779153
M39592	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34022055
M39592	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1897594
M39592	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2871099
M39592	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.18034036
M39592	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2109279
M39592	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.3504595
M39592	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2432357
M39592	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.21251395
M39592	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2341888
M39598	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.225735
M39598	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2000763
M39598	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.17252332
M39598	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.20941717
M39598	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.21028166
M39598	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1891997
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3786284
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.200417
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23129851
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19666508
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25880847
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.318739
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21594049
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1884758
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.180386
M39598	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19249267
M39598	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.171634
M39598	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1979913
M39598	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2037708
M39598	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1906098
M39598	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1758285
M39626	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0810944
M39626	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0771979
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0928048
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1125354
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.137193
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1314045
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0741416
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1134783
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0815117
M39626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1370704
M39626	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1124215
M39626	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1070039
M39626	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0793836
M39626	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1060284
M39626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08406109
M39626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1085571
M39626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0918834
M39630	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1827465
M39630	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.18734552

M39630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1964434
M39630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3420597
M39630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1685902
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1874192
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3031612
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1796647
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2708641
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17314367
M39630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23428663
M39630	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2573102
M39630	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1811612
M39630	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2486409
M39630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1805064
M39630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2214844
M39777	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1962556
M39777	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2358515
M39777	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2867364
M39777	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2401942
M39777	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.22001435
M39777	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.17842978
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.19229354
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17978791
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18651569
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.25777051
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20484942
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.186472
M39777	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27213457
M39777	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1986347
M39777	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18212393
M39777	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20061652
M39777	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23415952
M39777	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27869428
M39788	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0812687
M39788	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0778281
M39788	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0880348
M39788	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0865748
M39788	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0869539
M39788	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0842904
M39788	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1191999
M39788	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09562769
M39788	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0866324
M39788	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0909524
M39788	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10079679
M39788	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0856745
M39788	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0997822
M39788	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0801047
M39788	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1045749
M39788	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1161715
M39788	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0782414
M39994	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1198596

M39994	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.09682973
M39994	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.08602655
M39994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08089583
M39994	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.13724493
M39994	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0970579
M39994	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1057305
M40006	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.18344626
M40006	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.1895347
M40006	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18008551
M40006	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22013885
M40006	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.20179494
M40006	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2011483
M40006	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24615276
M40006	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22083814
M40006	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28409942
M40006	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17627999
M40006	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2121797
M40006	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.22300214
M40006	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.21970685
M40006	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaer	0.17384034
M40006	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonada	0.19374834
M40006	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__	0.18300433
M40007	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12141677
M40007	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalob	-0.1336273
M40007	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.0978401
M40007	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08913858
M40007	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaer	0.08364641
M40007	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonada	0.08735454
M40008	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.1704033
M40008	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.08708493
M40008	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconost	0.07981436
M40008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.0769413
M40008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	-0.0804514
M40008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	-0.1103198
M40008	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10660163
M40008	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.127984
M40008	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1166675
M40008	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteri	-0.0923712
M40010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.1029389
M40010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0886723
M40010	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.11553018
M40010	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1446192
M40010	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicro	-0.0902669
M40020	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales.f__Turiciba	-0.1922972
M40020	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaer	0.22955412
M40040	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.29163416
M40040	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	0.23446641
M40040	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.20084391
M40040	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.17959916
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1751002

M40040	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.260409
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.16529393
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.16955431
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2192105
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2067408
M40040	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__f	0.20391709
M40040	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24010097
M40040	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18538426
M40040	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18607228
M40040	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.26053406
M40040	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.21327927
M40040	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.30476543
M40040	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23821492
M40040	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24256713
M40040	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24228821
M40040	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18798649
M40040	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.17608823
M40040	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.18069195
M40040	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfoc	-0.170023
M40040	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.18857279
M40040	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2249157
M40045	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1158044
M40045	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.08975439
M40045	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08545532
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1380434
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1313112
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08094792
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1261934
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09871839
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0959675
M40045	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09977337
M40045	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11069581
M40045	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1406317
M40045	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1339062
M40045	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08146905
M40045	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1082177
M40084	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.1262951
M40084	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09673865
M40084	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07679281
M40084	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08181503
M40084	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.07607381
M40084	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09275072
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0852955
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10182877
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08343027
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17183049
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11987806
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07902606
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14131275
M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08012384

M40084	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07627749
M40084	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.09649083
M40084	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.07963702
M40084	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.08828449
M40084	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriia.f__Sphingobacteri	0.09123348
M40084	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderi	0.11779774
M40084	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__Rhodocyclales	0.08854207
M40084	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__Aeromonadales	0.08109514
M40084	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteri	0.08477551
M40084	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteri	0.07558219
M40084	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirill	0.07635345
M40084	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales	0.07788023
M40084	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobi	-0.0796869
M40097	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.118821
M40097	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.1005334
M40097	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0858209
M40097	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turcibacterales	0.10500838
M40097	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillales.f__Lachnospirill	0.08461742
M40097	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__Peptococcaceae	-0.10428
M40097	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales	0.1880473
M40097	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.10453925
M40097	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.0997862
M40097	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales	0.13286074
M40097	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales	0.08186822
M40097	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobi	-0.1011257
M40173	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.09548382
M40173	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.10082565
M40173	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.09189698
M40173	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.100949
M40173	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1078002
M40173	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	0.09361784
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillales	0.08872128
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__Planococcaceae	0.08772871
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__Planococcaceae	0.09554427
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__Enterococcaceae	-0.0825954
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__Enterococcaceae	-0.0861434
M40173	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.f__Leuconostocaceae	-0.0882439
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillales.f__Lachnospirill	-0.1138322
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__Peptococcaceae	-0.0824174
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.f__Peptostreptococcaceae	-0.091555
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__Ruminococcaceae	-0.0994369
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales	-0.0748651
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales	0.07653387
M40173	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales	-0.1129041
M40173	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales	-0.1388558
M40173	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales	-0.076974
M40173	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	-0.0851702
M40173	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__Caulobacteriales	0.09598099
M40173	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Rickettsiales	0.10082565
M40173	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.09320268

M40173	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08226301
M40173	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1084514
M40173	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0984492
M40173	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09026324
M40173	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f_	-0.0769658
M40173	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0788146
M40406	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.099314
M40406	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0908227
M40406	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0973517
M40406	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1006118
M40406	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0840228
M40406	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1083853
M40406	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1059668
M40406	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1192565
M40406	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1055034
M40406	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1104351
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.09487
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0965964
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.084709
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0890522
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0950314
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0787152
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07954034
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.1139863
M40406	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08503415
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0802034
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1530153
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1384623
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.247136
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1867574
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1049877
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09475315
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.087663
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07529812
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14067287
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1203634
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0954448
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1214683
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0778468
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1553698
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.083681
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1372029
M40406	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17900644
M40406	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0998423
M40406	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11582637
M40406	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08012449
M40406	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08339523
M40406	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1009382
M40406	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.13301
M40406	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1027583

M40406	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1104813
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0883122
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1109799
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1037413
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1266684
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1050312
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1309121
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15079406
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09073515
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0883122
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0796004
M40406	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1123051
M40406	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1082538
M40406	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1180059
M40410	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobae	-0.0797497
M40410	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1101264
M40410	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09725174
M40410	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10147748
M40410	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0903182
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0858218
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1149628
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1060919
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0865814
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0951485
M40410	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0815117
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.120139
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0942359
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0888814
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0924496
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0857621
M40410	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0835053
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09425852
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2042726
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1128188
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2405661
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1415307
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.102346
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0853716
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12227248
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1031125
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1147994
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1142686
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0945052
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1504478
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1057681
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1232083
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0872701
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0999368
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0967451
M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0986048

M40410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17140385
M40410	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0956835
M40410	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0952623
M40410	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1821851
M40410	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0982333
M40410	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.0810586
M40410	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0836367
M40410	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.1092027
M40410	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.14794719
M40410	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1296516
M40410	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0808649
M40410	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0836927
M40410	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09393037
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0879478
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850407
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0897557
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12569301
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0872986
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1159151
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0962449
M40410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0938479
M40410	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1524301
M40452	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0831465
M40452	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.1351465
M40452	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08358817
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11550252
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.1303939
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0971836
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10772921
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08119424
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08141007
M40452	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1592336
M40452	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.14724669
M40452	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1451326
M40452	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08323999
M40452	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0859734
M40452	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0789978
M40452	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0972646
M40452	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1415762
M40452	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08662855
M40464	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2467309
M40464	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24117265
M40464	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.19547712
M40464	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19536222
M40464	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2490077
M40464	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.19948698
M40464	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales.f__Turicib	0.20902599
M40464	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.47906369
M40464	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.44353282
M40464	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.31087047

M40464	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2409983
M40464	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2775549
M40464	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.25514668
M40464	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21519006
M40464	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2786245
M40464	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.20011021
M40464	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2112662
M40464	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17287276
M40464	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1757543
M40464	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1825799
M40473	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.22279897
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.4375003
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3795542
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2933189
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2530632
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3886499
M40473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.3337888
M40473	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2390642
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.26694769
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2599168
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24211608
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2855461
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2911449
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.3722844
M40473	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2636396
M40473	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.5392432
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2462487
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.3161751
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3440994
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3621286
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.34643451
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.2371931
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3224746
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.5220356
M40473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.26365409
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2218267
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26287402
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3883659
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2903278
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2355085
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3702537
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3061726
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3198374
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.28118
M40473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.35120655
M40473	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2869124
M40473	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2729469
M40473	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.40489445
M40473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.42271
M40473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4076647

M40473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2490163
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32676662
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.30171524
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.36406831
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3841658
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28990343
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.3220277
M40473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2427666
M40473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.23184882
M40473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24115766
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.3972163
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.3730129
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35046442
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28376368
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2287748
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.34602079
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2294425
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2585998
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.31156746
M40473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.3510776
M40473	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3783625
M40473	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.25403017
M40473	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.28070532
M40475	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1645662
M40475	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07936274
M40475	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0871638
M40475	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0919384
M40475	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09092576
M40475	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07660156
M40475	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10242198
M40475	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1154706
M40475	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0914538
M40479	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0854024
M40479	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0771669
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2181714
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2077686
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1469985
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1160552
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16839338
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10443387
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0801589
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.08595
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07766203
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0785996
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1067389
M40479	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1009351
M40479	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.12812803
M40479	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1703687
M40479	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.07652
M40479	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08996897

M40479	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0902594
M40479	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10236851
M40479	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0797312
M40481	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08455893
M40481	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11469979
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0843385
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1210104
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0881461
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08190366
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10166108
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10584545
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09895294
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16772241
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0880318
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14234233
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.116185
M40481	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20440225
M40481	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0895696
M40481	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0792368
M40481	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0918521
M40481	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08439771
M40481	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15115155
M40481	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08025514
M40481	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.102605
M40499	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.16212783
M40499	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22839699
M40499	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.1745458
M40499	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1903358
M40499	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20828881
M40499	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19788035
M40499	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16431616
M40499	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.17499252
M40499	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16441896
M40499	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16584077
M40506	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.263927
M40506	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2461535
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1744342
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26179554
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2096139
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1800463
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16827683
M40506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17732253
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2913699
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2186724
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2029728
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__(	-0.1766867
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1749519
M40506	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2095653
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2098966
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.2126582

M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1867046
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.20967132
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2036332
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2621413
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.1982353
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteri	-0.1840179
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.20575137
M40506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.1913424
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobi	-0.229068
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.3592292
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.1768055
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2151269
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.4477366
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1831176
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2183857
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1744556
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirace	-0.1782114
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	-0.1767658
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	-0.1701745
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.184621
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococ	-0.2049146
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1998631
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas	-0.2905736
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.2528185
M40506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.17847562
M40506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysi	-0.2082948
M40506	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospira	-0.1640338
M40506	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	0.20072073
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2128662
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1764819
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2581322
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.17246904
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1884756
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2224405
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionella	-0.1752516
M40506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclaceae	-0.1989605
M40506	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2211046
M40506	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2555015
M40506	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter	0.19469728
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonas	-0.1752516
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatium	-0.2810361
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.2043577
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.3297738
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.2915776
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.2042466
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.2413588
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonas	-0.2765124
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.1837858
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.2021628
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.2267055

M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17067862
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2574201
M40506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2310618
M40506	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.181296
M40506	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1640338
M40700	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08638054
M40700	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09372392
M40700	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09651174
M40700	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08346321
M40700	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09073754
M40700	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10147872
M40700	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0816455
M40700	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14069972
M40700	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.12548823
M40700	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.07988605
M40700	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10422705
M40703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21964591
M40703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2296147
M40703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24076286
M40703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22664181
M40703	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2705953
M40703	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.28275475
M40703	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.20921885
M40703	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18873039
M40703	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22316709
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.23806352
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21325224
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.29227327
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.2072025
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.22772236
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.20938701
M40703	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.30217277
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.19245
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2268551
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21692036
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2100282
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18468318
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21371939
M40703	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25227433
M40703	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.24375789
M40703	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.22513712
M40703	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.24076286
M40703	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24786759
M40703	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.31799009
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.2122743
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21389311
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2587195
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18505898
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22374609
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22237579

M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.194934
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24533947
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23942424
M40703	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21389311
M40730	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12529085
M40730	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09621252
M40730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07871563
M40730	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1011693
M40730	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08949731
M40730	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08618372
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1627363
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1606092
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0775632
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10583793
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07959038
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07802883
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09311056
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1059696
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08681968
M40730	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13132291
M40730	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.083636
M40730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08771334
M40730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10667484
M40730	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.0819577
M40730	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0807318
M40732	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.19777312
M40732	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.254483
M40732	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3543336
M40732	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162295
M40732	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26549547
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.20543715
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2166644
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1871344
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.32124671
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3812164
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.2711932
M40732	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2731327
M40732	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.188307
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.3065216
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.3413016
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1867309
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.28728445
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.31694243
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2475361
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2671226
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2288269
M40732	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1977705
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2338848
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.36644519
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2332126

M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23673869
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2152467
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19910092
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18080802
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19954306
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26260075
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.179753
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.354161
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1835253
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3338886
M40732	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18390931
M40732	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1857537
M40732	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2971841
M40732	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25016224
M40732	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4709431
M40732	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2202181
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.32204603
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23889837
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23942959
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25257338
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25257288
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.39537342
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.41158972
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.188901
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4276299
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28207095
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2022026
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24411038
M40732	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2116686
M40732	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.22656029
M40732	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.26406995
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1893414
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.38386552
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29985942
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23449155
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25658423
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1792439
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.175486
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1942196
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1881777
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22284307
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.31811495
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3041791
M40732	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1739071
M40732	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3579976
M40732	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2539705
M40732	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.23820793
M41370	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08876566
M41370	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1039284
M41370	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13385369

M41370	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09563448
M41370	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1119258
M41370	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0880984
M41370	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09127942
M41374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0815827
M41374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825785
M41374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1471281
M41374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0835939
M41374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.083386
M41374	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.103032
M41374	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0870965
M41515	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0987665
M41515	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1184407
M41515	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1024035
M41515	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1147017
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1354
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1255327
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1550746
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.107828
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1179518
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.113911
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0846649
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0830859
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0820377
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1241705
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.088208
M41515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09089777
M41515	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10164868
M41515	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0926244
M41515	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08588551
M41515	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1024963
M41515	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09498318
M41515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08976133
M41515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.087426
M41515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1405622
M41515	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0839363
M41515	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0808483
M41515	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.092438
M41515	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.128408
M41609	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18113206
M41609	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21100493
M41609	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.25153721
M41609	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.18474517
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18208797
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17974351
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2683385
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.26241466
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18917461
M41609	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18147877
M41609	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.18334994

M41609	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22380682
M41609	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyc	0.21293948
M41609	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18526192
M41609	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.19838476
M41609	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18554523
M41888	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09538429
M41888	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.0993169
M41888	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09972969
M41888	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08700153
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.13751821
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10874007
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08989959
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08314129
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08608226
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09257594
M41888	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09222469
M41888	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0863286
M41888	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0991019
M41888	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08574228
M41888	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0997118
M41888	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceal	-0.0851183
M42027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26030091
M42027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19381105
M42027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26589382
M42027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23235739
M42027	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2512352
M42027	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22450254
M42027	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25351675
M42027	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.25523315
M42027	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.26797562
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.2187253
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.26496861
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.26574418
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.20436702
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21254154
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.2046945
M42027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.28338892
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.27356912
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27766783
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2753724
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20505346
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20597104
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.30473239
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22332747
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2101277
M42027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27347387
M42027	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21493483
M42027	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.22821695
M42027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.32610915
M42027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27665329

M42027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22477115
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2447527
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2447544
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2595635
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31609349
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24339004
M42027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24381855
M42027	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2210798
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.2738235
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.24573649
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.220393
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22226522
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2588834
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23161453
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20687609
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21974383
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22696788
M42027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.25565058
M42079	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1101143
M42079	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0913788
M42079	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0817952
M42079	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0933816
M42079	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.086783
M42079	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09578656
M42079	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10202651
M42079	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1057732
M42079	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0839233
M42079	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08126397
M42079	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08566267
M42081	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.259404
M42081	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2452178
M42081	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2566698
M42081	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2252787
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.195309
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.40893774
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2060634
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2060634
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2020175
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23765714
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2060634
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2103618
M42081	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.5168762
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.258634
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2612392
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2055581
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2512535
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2170193
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2249204
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2822898
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3334802

M42081	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27620968
M42081	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1992454
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2729315
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2367115
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1951428
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.27506175
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2060634
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.20192053
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2053855
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1943931
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.2760676
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.3044417
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.2348301
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2220311
M42081	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconoc	-0.2632784
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2531483
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2169793
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2512501
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2723741
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2072418
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2392534
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2475666
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2945961
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1973856
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3697747
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21761595
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2060634
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2321389
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2917111
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3535361
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2042616
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2421154
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2501368
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.373649
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1908067
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2030976
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2353293
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21459708
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2496047
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.351242
M42081	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.2060634
M42081	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.22068787
M42081	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2636182
M42081	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.4522957
M42081	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.2207319
M42081	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.28054269
M42081	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2118975
M42081	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2864128
M42081	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1944868
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2197943

M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2423415
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.202564
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2815271
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2135519
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21609141
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4019782
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2296058
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1959801
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2025488
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2851392
M42081	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2060634
M42081	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.209874
M42081	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2151622
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2369124
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1959801
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2060634
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2146932
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2048912
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3673557
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3294422
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2314995
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2076187
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2332715
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2897662
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2169053
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2054479
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2285601
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2649462
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3009726
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2319401
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.300272
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.28251459
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2475277
M42081	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2238308
M42081	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2060634
M42081	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2060634
M42081	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2298963
M42081	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2962876
M42081	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1977277
M42092	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.21141179
M42092	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18217377
M42092	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.19992315
M42092	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17706081
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18073517
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17715006
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18651562
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.19801856
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22251921
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.39921894
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1980216

M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17989992
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24533669
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20556774
M42092	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.27925186
M42092	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.23686422
M42092	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.25084035
M42092	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.19698074
M42092	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.25741316
M42092	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.19297682
M42092	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.16624383
M42092	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1792354
M42092	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.25488865
M42092	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.17258262
M42094	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2279248
M42094	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2251345
M42094	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1840047
M42094	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25808895
M42094	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18630303
M42094	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20835341
M42094	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25976082
M42094	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3236952
M42094	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20147237
M42094	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1871031
M42094	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2406632
M42094	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25283955
M42094	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.22072391
M42109	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.11627321
M42109	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08130064
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1240176
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0910261
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08287436
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09156959
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09339377
M42109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09402747
M42109	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.07769467
M42109	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1202707
M42109	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11318685
M42109	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0812203
M42109	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.15239056
M42109	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1171872
M42109	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11738759
M42109	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09121139
M42109	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1179709
M42370	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.09563038
M42370	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0878681
M42370	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0844431
M42370	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0843252
M42370	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0946308
M42370	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.10233222
M42374	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1074251

M42374	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1048612
M42374	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.0978974
M42374	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1197288
M42374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0869123
M42374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.083896
M42374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1090013
M42374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0885071
M42374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08442851
M42374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08317188
M42374	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.104735
M42374	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0860926
M42374	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0977882
M42374	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1084571
M42374	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1053403
M42374	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08813629
M42374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0909544
M42374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0998275
M42395	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0967992
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0980131
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.127239
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919262
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1021596
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1128804
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828551
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.09064
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0920625
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0813866
M42395	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0990642
M42395	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1149744
M42395	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1283655
M42395	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1217516
M42395	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0748898
M42395	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1100664
M42395	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.1389916
M42395	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1062601
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0782527
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0998376
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.125736
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0941915
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0974673
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0952518
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0878905
M42395	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1036244
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0843244
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07731888
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14150854
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0864503
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1172614
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1046577
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1224014

M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1324123
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0747876
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.075429
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12438318
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1005757
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1036441
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.118707
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0961402
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0825137
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1034615
M42395	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1069468
M42395	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0819785
M42395	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1156706
M42395	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0764614
M42395	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1256558
M42395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0851023
M42395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0804996
M42395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1054644
M42395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0895093
M42395	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1147266
M42395	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1169981
M42395	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1560586
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0813627
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1050237
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0983717
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850011
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.093144
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0948339
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0778235
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0797445
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1050237
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0889036
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0852096
M42395	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1163203
M42398	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.11965412
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10506343
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0951112
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10290208
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09024039
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13614313
M42398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0935971
M42398	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0976207
M42398	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1485125
M42398	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11399799
M42398	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.11469867
M42398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.10868843
M42398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.11749519
M42398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0974251
M42398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0967737
M42398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1116364

M42398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09340576
M42398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11981552
M42398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11211752
M42398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1034462
M42398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1016176
M42398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.12466204
M42398	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10262148
M42398	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.0951112
M42398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12308888
M42398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1467153
M42398	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.0982536
M42398	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11004916
M42398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09162951
M42398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.090587
M42420	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0800412
M42420	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0798718
M42420	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0903387
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1131802
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09285585
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.081264
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.089343
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0960499
M42420	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1053688
M42420	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1047216
M42420	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1075149
M42420	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0867287
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1090743
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1016811
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1261433
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1012406
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2204866
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1737265
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1238809
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09489241
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10624926
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18074386
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0976937
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0962924
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1311867
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15826114
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1529479
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0822881
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1026484
M42420	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22774169
M42420	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0968556
M42420	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0888147
M42420	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0915324
M42420	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1545804
M42420	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0777988
M42420	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0853189

M42420	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.086397
M42420	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0816207
M42420	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0899988
M42420	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0804028
M42420	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09996778
M42420	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1024834
M42420	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1146804
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1199385
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1383063
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1155218
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0865607
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.103462
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18071187
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07639226
M42420	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1160678
M42420	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.0961041
M42420	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1266867
M42446	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1023799
M42446	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0830847
M42446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09353371
M42446	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.0948191
M42446	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.0877344
M42446	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.086637
M42446	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0917772
M42449	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2203151
M42449	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31734731
M42449	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1933306
M42449	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.272355
M42449	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.38037294
M42449	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19984936
M42449	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.353943
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.32183858
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.291632
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.3285229
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3780518
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24516054
M42449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2000446
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25270174
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2422262
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.26072915
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3751338
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3151454
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2260476
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2227337
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2876242
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2071218
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2432024
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.195168
M42449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2403917
M42449	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22035238

M42449	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2461941
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2503479
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2823479
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2170532
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23030304
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2441528
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2396194
M42449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2560407
M42449	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.20446758
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3194854
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2489628
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2340268
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2212586
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2390574
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2279848
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2059109
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2906396
M42449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.3305799
M42449	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2963051
M42489	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1126485
M42489	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1240406
M42489	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874477
M42489	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1025677
M42489	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.107576
M42489	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11512209
M42489	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1093367
M42489	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1036523
M42489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1147121
M42489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1086994
M42489	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08661345
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0916944
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1912693
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0869488
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1639778
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1151777
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0836073
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1090122
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0833959
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1162144
M42489	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1342505
M42489	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0979448
M42489	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.0923514
M42489	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0849092
M42489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1467737
M42489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0923732
M42489	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08093641
M42489	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1222646
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0812555
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0967145
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1046648

M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1003604
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0891204
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.09156
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1125745
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0999671
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0812555
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0990815
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0941012
M42489	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0904208
M42489	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0894042
M42971	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1362883
M42971	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1258574
M42971	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1211601
M42971	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08839116
M42971	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1060367
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11701772
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.14208539
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0966066
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0854249
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1317568
M42971	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.107564
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1801213
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.102567
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1264407
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1160197
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1124509
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.107136
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.0955066
M42971	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09231631
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0978291
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.109971
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0956921
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0981288
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0983473
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1526818
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11786942
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08864653
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0885425
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1179739
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11719028
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0862506
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.100069
M42971	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10799405
M42971	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0892837
M42971	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1159763
M42971	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1009241
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11238156
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09317216
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.102278
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0862506

M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0982755
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1152771
M42971	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0910065
M42971	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0938151
M42971	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1243731
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0910065
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1160181
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1295133
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1119264
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.10568
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1082415
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1019106
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.115618
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1183838
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0871807
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1196999
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.090422
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0919504
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0848875
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10178971
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1160181
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1143164
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1028708
M42971	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1019404
M42971	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1118611
M42971	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0854408
M42975	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.244852
M42975	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27472225
M42975	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.43034373
M42975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.197848
M42975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1938395
M42975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1816878
M42975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2243715
M42975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2109063
M42975	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2581039
M42975	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23322908
M42975	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1806746
M42975	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1950234
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2414288
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1933507
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.199623
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2102953
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2112638
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32349996
M42975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2016222
M42975	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2049043
M42978	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11632324
M42978	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.09792741
M42978	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1208754
M42978	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16468304

M42978	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.1461408
M42978	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10016831
M42978	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.0952524
M42978	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07997577
M42978	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08619613
M42978	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07832487
M42978	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1108183
M42978	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.16892304
M42989	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.21529624
M42989	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.26138442
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21691104
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24353342
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3067301
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22435523
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17280737
M42989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23865324
M42989	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22873043
M42989	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.20465839
M42989	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22276281
M42989	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1855197
M42989	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2154775
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.17987506
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2811071
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21063749
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.3330258
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	0.2786849
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.24730556
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.31125139
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.17972426
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	-0.2089121
M42989	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.29380715
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.2133576
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19015326
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.21056502
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2250324
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.20027853
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.22106084
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20986048
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18385271
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	0.2055297
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.21131082
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1814501
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18594447
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1914344
M42989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27829698
M42989	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.23169236
M42989	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20187829
M42989	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.16734379
M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.24303616
M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2302747

M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2133307
M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25266853
M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26044388
M42989	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2053331
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18594447
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19055548
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.28876597
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1854124
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26036671
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.20275279
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.26597839
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.17467703
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24003734
M42989	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.19565662
M42989	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.19664828
M42989	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.194452
M42989	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24185041
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.20275279
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21258027
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.31225516
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32018378
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29873704
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20177808
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25430087
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.18546347
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17909688
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17241347
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21258027
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2111606
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.32459742
M42989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.33771354
M42989	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2062627
M42989	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.26892888
M42989	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.22509399
M42989	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	0.18063067
M42989	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.23256397
M42989	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.20283334
M42989	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22550291
M42993	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1872493
M42993	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17328902
M42993	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1890943
M42993	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2148532
M42993	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.22144
M42993	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.17220436
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.302371
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2705152
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3044565
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16960961
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.24243
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17278266

M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2269105
M42993	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25009403
M42993	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1810825
M42993	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2191171
M42993	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20425078
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1923836
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2386703
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2258387
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.249981
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1749007
M42993	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18690093
M42994	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22927597
M42994	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27053923
M42994	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.39671879
M42994	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21553943
M42994	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25323057
M42994	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2453666
M42994	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.3051391
M42994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.2464815
M42994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26848266
M42994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24394898
M42994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.228438
M42994	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.29349545
M42994	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.28391652
M42999	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4146069
M42999	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2346057
M42999	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2204884
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3787661
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3854191
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1920843
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24707554
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2414173
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24920679
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1957572
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2049191
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26242054
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2098059
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19730915
M42999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24366267
M42999	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2245909
M42999	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.23221424
M42999	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22791979
M42999	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2329345
M42999	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2118002
M42999	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27484264
M42999	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19429149
M42999	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22862827
M43023	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1437583
M43023	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0859436
M43023	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1153224

M43023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0971629
M43023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1646094
M43023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0915029
M43023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08288918
M43023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0866654
M43023	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0866874
M43023	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0968797
M43023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0909585
M43023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.082152
M43023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10335363
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0984725
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1303322
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.133687
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1064241
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0961351
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1290185
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0958057
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1308626
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1023137
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0916722
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0978407
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0829662
M43023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1108608
M43023	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.126853
M43023	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1050653
M43023	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0890389
M43023	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0919945
M43023	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0857352
M43023	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0925661
M43023	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1006023
M43023	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.090206
M43023	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0842674
M43023	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1266708
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0907448
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0922386
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.090608
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0942012
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1089036
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0907448
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1026849
M43023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1116849
M43026	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10285119
M43026	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1291769
M43026	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1172131
M43026	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0916335
M43026	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09350194
M43026	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1118548
M43026	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10888838
M43026	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.08658717
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0836839

M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0816648
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0797477
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0815823
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1215377
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1107821
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1412968
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0845317
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0907866
M43026	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18430032
M43026	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1621668
M43026	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0944858
M43026	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0812088
M43026	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0873541
M43026	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08364339
M43027	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1021862
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0952666
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0800118
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0912589
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1115271
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934133
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0758509
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0947449
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1021321
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0796539
M43027	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0886423
M43027	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1167525
M43027	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1178306
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.11011581
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0821593
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.099879
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1049158
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1885737
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0892996
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1004141
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0969143
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.082117
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0796773
M43027	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0925835
M43027	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0853303
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0998726
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1033892
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1152721
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1122241
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0860388
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0854429
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0796735
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0886644
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0795182
M43027	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.091545
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0853605

M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0946184
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07596454
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1152475
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.134451
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1132277
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1253957
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11300645
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.104647
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1036595
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1391434
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08409527
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0864044
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0815553
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0764236
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1261072
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1373503
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1002307
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1498884
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1086017
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0951364
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1905611
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1397475
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1190525
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0784176
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1042406
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0852162
M43027	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1155587
M43027	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1274891
M43027	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1139831
M43027	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0836885
M43027	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1442498
M43027	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.10046616
M43027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0945523
M43027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09381914
M43027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0940157
M43027	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0818422
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1041475
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1382617
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08770844
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0839562
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10305916
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1197225
M43027	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1078918
M43027	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1232652
M43027	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.135457
M43027	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1058055
M43027	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.07568693
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0875053
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0904855
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1191049

M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09115833
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1006525
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1152827
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0892617
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0838489
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930562
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1174163
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0954119
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0776327
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0809654
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1046418
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1191049
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0930277
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.097273
M43027	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1129839
M43027	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1070917
M43027	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.091581
M43028	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0912255
M43028	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13229244
M43028	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09193585
M43028	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.1213901
M43028	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08705703
M43028	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09464343
M43028	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0875253
M43028	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09615568
M43028	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10931498
M43028	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1255644
M43028	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873368
M43028	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12435831
M43028	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08900807
M43028	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0977876
M43028	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08650505
M43028	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1166707
M43231	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0894461
M43231	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0839909
M43231	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13514216
M43231	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.131787
M43231	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09540542
M43231	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0941283
M43231	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09213551
M43231	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1219276
M43231	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09501659
M43231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1040134
M43231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.11578105
M43231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08936746
M43231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1047431
M43231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0978679
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.08882
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0838133
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1094158

M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07956338
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0969981
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1168648
M43231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0995831
M43231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.08096957
M43231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.0830676
M43231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1042131
M43231	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09503074
M43231	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0817838
M43231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1009655
M43231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0784554
M43231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.162303
M43231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0815244
M43231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0915806
M43231	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.086121
M43231	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.109293
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0844918
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.13029
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1176877
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	-0.1053313
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1093902
M43231	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0818125
M43231	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08942651
M43231	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1056769
M43249	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08178826
M43249	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08178826
M43249	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07812699
M43249	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0841383
M43249	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1320324
M43249	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1159094
M43249	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1085662
M43249	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08452982
M43249	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0796652
M43249	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0854988
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0823648
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0830864
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0767637
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0827915
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1558687
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0778972
M43249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0799399
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0853986
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1832921
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08286818
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.121328
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0884854
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2150809
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1390631
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0933041
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09056797

M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08336257
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.182906
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08383146
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0964679
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1771922
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14359634
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1973972
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1062781
M43249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21862768
M43249	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1002158
M43249	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1352767
M43249	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1053783
M43249	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0858228
M43249	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0973401
M43249	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0942572
M43249	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08547053
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09701075
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0790646
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0805661
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0777043
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0808322
M43249	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1820887
M43249	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07833243
M43249	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.101156
M43249	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1404691
M43249	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08955693
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09814291
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07829414
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0975498
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08178826
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.084091
M43249	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16374136
M43249	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1144832
M43249	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1856287
M43255	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.25857873
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24337705
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2243902
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23512847
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1818147
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23737419
M43255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23069142
M43255	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2229461
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2111466
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20529956
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2246546
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18226237
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17800783
M43255	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.17123152
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22063115
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.20096482

M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcacei	-0.2330028
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcacei	0.17875084
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.25192559
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.20082924
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.21232096
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.17173055
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1826537
M43255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1971486
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.19516779
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18371164
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17264459
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1915708
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22320851
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19742998
M43255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28866219
M43255	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23376662
M43255	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.18400292
M43255	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.23512847
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2361897
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2358509
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17166785
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2574939
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18329604
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25809398
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21558281
M43255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19756211
M43255	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24762517
M43255	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18478066
M43255	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1843521
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22911358
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.27835607
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27471099
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19421074
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22734764
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21402371
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27871109
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.19462503
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22911358
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.25125886
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.20422919
M43255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.28638704
M43255	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1904746
M43255	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.19868872
M43256	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.2842903
M43256	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2100141
M43256	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2354511
M43256	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.2842903
M43256	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.2181549
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2886574
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2069011

M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1963527
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2671247
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2128851
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18758769
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2047943
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2689249
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21960035
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1963527
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2128851
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.195367
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1963527
M43256	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2223557
M43256	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1903637
M43256	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2128851
M43256	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.1963527
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2192621
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2234857
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2464649
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1963527
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1960286
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1919888
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2181549
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.235714
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2388094
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2128851
M43256	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1887459
M43256	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.2128851
M43256	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.2286945
M43256	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.20635851
M43256	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.1963527
M43256	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.25041445
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2088332
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2609058
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2001553
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2128851
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.243818
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2345621
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2168746
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2653432
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.233229
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.2189467
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2330825
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2018875
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2250258
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1998353
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2981368
M43256	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2347272
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2128851
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2335965
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2933811

M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.21850322
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2030867
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.19436127
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2372568
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2083355
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3384217
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2383522
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2360842
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1986001
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.277143
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2923701
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2799358
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24876355
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2137865
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2874026
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2430438
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2193985
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2175995
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2323117
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2706433
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2509855
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3771962
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2879662
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2324286
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1931366
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.276823
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2046247
M43256	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1947356
M43256	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2176052
M43256	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.329655
M43256	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1853037
M43256	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1940012
M43256	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.21288506
M43256	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.27883177
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2252839
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1963527
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21288506
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1960981
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27312352
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.29569463
M43256	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2013311
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20349783
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21406263
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21777777
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21773
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19118489
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1865069

M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2297691
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19850248
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1850357
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2375598
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1898722
M43256	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.22884903
M43256	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2693314
M43256	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2266909
M43256	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23892647
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.21288506
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2145972
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2191734
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2297466
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21911056
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2019433
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22603527
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2883674
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2110265
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26350303
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2030399
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2403155
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2107051
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2197566
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1949425
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.227041
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.2842903
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2128851
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1963527
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2297466
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.213158
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2172235
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.189735
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.2227875
M43256	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.21288506
M43256	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1963527
M43256	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.21288506
M43258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848027
M43258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0902526
M43258	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0928487
M43258	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0897407
M43258	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0835536
M43258	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0920036
M43258	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07799076
M43258	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0997793
M43258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08532797
M43258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1249979

M43258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09981048
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1159035
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0797867
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1617094
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11481311
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.101654
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0953015
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0839213
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0897541
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1296861
M43258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1234147
M43258	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0757089
M43258	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0848406
M43258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0876763
M43258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0941047
M43258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0938707
M43258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09130994
M43258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1050841
M43258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08223641
M43258	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0965601
M43258	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0993362
M43374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0797402
M43374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1059633
M43374	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1040378
M43374	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0917333
M43374	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0875248
M43374	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.08422
M43374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.119305
M43374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0777835
M43374	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1349467
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0993957
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11246704
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1240561
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0765543
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0883202
M43374	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0940223
M43374	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1012177
M43374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0928098
M43374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0808495
M43374	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0759232
M43374	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0797535
M43392	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.18483719
M43392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19756615
M43392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.241467
M43392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1857434
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20056768
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2346576
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25823222
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.3272575
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3774606

M43392	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.1909645
M43392	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1902431
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.3036808
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2708607
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.199848
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.27376253
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.32540469
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.36631099
M43392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1822652
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.19434205
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1805441
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.33460382
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.33376972
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.290034
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28604972
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.29301861
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2056552
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2064162
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26580719
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18409661
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2901713
M43392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.215539
M43392	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.2476798
M43392	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.27813608
M43392	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3026858
M43392	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2378611
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23032357
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1951895
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19070546
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1851482
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.3048256
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31283118
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3820502
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26401915
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2878381
M43392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24768688
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21517215
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18694532
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19825304
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2055603
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26697413
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.235715
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.2078398
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2558749
M43392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2060747
M43392	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3208908
M43392	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2515044
M43392	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.21291397
M43400	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13934321
M43400	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1168324

M43400	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.17384532
M43400	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1158663
M43400	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0933266
M43400	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08684769
M43400	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1004672
M43400	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.11216814
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.0929142
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1065537
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1690068
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0976687
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0860856
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0833342
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0873355
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1062201
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1010435
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0965183
M43400	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0898847
M43400	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.09357792
M43400	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1315948
M43400	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.10435209
M43400	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07926384
M43400	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08956469
M43400	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0943329
M43400	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0847463
M43400	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0897416
M43400	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.17729994
M43412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0886261
M43412	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0813919
M43412	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1301466
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.110446
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1114427
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08381602
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0902223
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14155036
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.08243
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0926457
M43412	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13091218
M43412	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0968659
M43412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09221718
M43412	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1227187
M43412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08450982
M43412	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09672325
M43449	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.13410517
M43449	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878034
M43449	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.10395836
M43449	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	0.12975905
M43449	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10382035
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10123934
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0815104
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.23524525

M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.21343059
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0956885
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0876453
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08665288
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.15443974
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1000716
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1175005
M43449	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1218895
M43449	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12408295
M43449	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09971238
M43449	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1104234
M43449	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11795604
M43449	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.14365709
M43493	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1166144
M43493	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0846647
M43493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08346629
M43493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0904456
M43493	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0823327
M43493	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0977353
M43493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10390317
M43493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08479954
M43493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0959915
M43493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1229065
M43493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08692832
M43493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0909873
M43493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1391183
M43493	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0993773
M43493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1189151
M43493	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1004436
M43496	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2791712
M43496	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.238193
M43496	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.24544531
M43496	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.26150695
M43496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2393745
M43496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2568011
M43496	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29631931
M43496	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2500544
M43496	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2464602
M43496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.309878
M43496	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2361937
M43506	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0926547
M43506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1065024
M43506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0993548
M43506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1080783
M43506	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1338275
M43506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.118031
M43506	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0796689
M43506	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1191361
M43506	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0883336
M43506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0846168

M43506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0956441
M43506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1361988
M43506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1067626
M43506	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09151291
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.105571
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11737579
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0790095
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09108857
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0815045
M43506	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1690816
M43506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.114044
M43506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1340461
M43506	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1171835
M43506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884231
M43506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1596688
M43506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09493981
M43506	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0898631
M43506	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1145736
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0835692
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0954498
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1016188
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1212573
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0916247
M43506	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11493484
M43507	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0977584
M43507	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.09914711
M43507	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1138472
M43507	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.1081292
M43507	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08997117
M43507	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1077331
M43507	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0935407
M43507	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12223334
M43507	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10034634
M43507	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1082406
M43507	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08879881
M43507	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1106185
M43507	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09402495
M43507	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10849211
M43507	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0976626
M43507	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11782847
M43507	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.10227418
M43530	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08925566
M43530	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0734942
M43530	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0748132
M43530	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1111573
M43530	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11472035
M43530	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0914767
M43530	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07302363
M43530	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0714963
M43530	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08680244

M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0736648
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2039188
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2525774
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0810601
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12968407
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1345442
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1145787
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1059037
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.115925
M43530	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15701934
M43530	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.120075
M43530	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07874658
M43530	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.07541598
M43530	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08073748
M43530	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1259364
M43530	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07390235
M43530	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0763504
M43530	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07716162
M43530	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.15685869
M43530	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0738703
M43530	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1219278
M43535	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.29087394
M43535	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2992913
M43535	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.29087394
M43535	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3086405
M43535	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32685799
M43535	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.43834766
M43535	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3301102
M43535	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.3316123
M43535	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.31660167
M43535	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.23701898
M43535	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2940687
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2280329
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.38176705
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29940389
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2603786
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.26094959
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.25128081
M43535	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.25128081
M43535	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2638407
M43535	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.42711847
M43535	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.28430976
M43535	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.37363855
M43535	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.31249675
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.3692193
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.39771389
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2945489
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.29087394
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36042667
M43535	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.27039005
M43535	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.3193298

M43586	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3202432
M43586	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2633805
M43586	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3291225
M43586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3249444
M43586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2692346
M43586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3250474
M43586	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2508793
M43586	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2463505
M43586	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2887234
M43586	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3496219
M43586	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.27567913
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.242181
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.247164
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.540967
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2692969
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2483464
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2340804
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2299842
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2482183
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4623609
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2541072
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3503915
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2743343
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2524799
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2779367
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.288812
M43586	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.42286459
M43586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.26056498
M43586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.271138
M43586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2502735
M43586	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2704186
M43586	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3051659
M43586	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2528772
M43586	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2219934
M43586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2779367
M43586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2743611
M43586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.2748885
M43586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2645466
M43586	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3356376
M43586	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2419518
M43586	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2871702
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2737666
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2748885
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3184337
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.235407
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3412602
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2959426
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2546332
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.3262965
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2871858

M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2710017
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.39344266
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2733958
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2699497
M43586	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.29308619
M43586	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.4102254
M43586	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2740443
M43586	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2710749
M43591	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23184839
M43591	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2323239
M43591	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.29412227
M43591	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1987488
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2105776
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2033999
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2552039
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2630132
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.288719
M43591	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21637888
M43591	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2341861
M43591	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3374747
M43591	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1927209
M43591	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.207068
M43591	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2041299
M43591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20717452
M43591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22712878
M43591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2262692
M43591	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20619619
M43591	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2324448
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2819397
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34876135
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3424143
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2486021
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3262852
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.306126
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.306126
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2335709
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2883998
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.306126
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2564572
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2486021
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2335709
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3119272
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2766982
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2486021
M43761	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2503515
M43761	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2335709
M43761	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2486021
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2957956
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3465003
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.310029

M43761	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3153948
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2486021
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2672376
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2689198
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2335709
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2499561
M43761	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2758379
M43761	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.2335709
M43761	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.2486021
M43761	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2738313
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2840228
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2335709
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.306126
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2393231
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3184978
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.271017
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2916578
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.3709603
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2843802
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3230121
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2716681
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.3295962
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2407648
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2980001
M43761	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.400687
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2951511
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2335709
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2364823
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2544512
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.24188772
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2901733
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3215816
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3993942
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3240187
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2775433
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.306126
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2936404
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3179079
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2430307
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3258536
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3306632
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2526513
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3466175
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2734297
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2778981
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2875563
M43761	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.306126
M43761	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.23357158
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.3492166
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.27825

M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.28302
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2486021
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23357158
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3617299
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.41718
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2678441
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.3082598
M43761	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2623813
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2429463
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2778981
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2439261
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2665633
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2729598
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2905564
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3006047
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.271475
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3178702
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2974149
M43761	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.306126
M43761	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3431945
M43761	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2630717
M43761	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3261667
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.23357158
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2775814
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2704634
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3006047
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.306126
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2489541
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2902842
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2647268
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.244436
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2777983
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2908234
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2882097
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2590478
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2502843
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2784129
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2802877
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2335709
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2665597
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3109723
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2486021
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2711321

M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2857093
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3086446
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2494132
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2656671
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23357158
M43761	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2654001
M43761	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.306126
M43761	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.306126
M43761	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2626935
M43761	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3132657
M43761	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2795099
M43761	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2636675
M43761	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2682892
M43761	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2486021
M43761	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.3316485
M43761	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.3508519
M43761	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.23357158
M43802	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22478147
M43802	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.33912642
M43802	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.18624694
M43802	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2722173
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.20231142
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1880025
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.23394064
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.18388607
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18177398
M43802	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.1928132
M43802	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.22862719
M43802	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.18482611
M43802	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.26118042
M43802	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.23596087
M43802	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18877103
M43802	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroc	0.23753671
M43802	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1935192
M43802	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.26646532
M43802	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23555502
M43802	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18553607
M43802	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2207112
M43802	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24532053
M43802	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.26923102
M43802	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.3026388
M43802	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2314297
M43802	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21512058
M43807	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.141948
M43807	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0885439
M43807	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.12468974
M43807	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.11964249
M43807	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09512226
M43807	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09922429
M43807	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.1126117

M43807	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10259376
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0906562
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08656434
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08508794
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10734634
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16346602
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08552635
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1636182
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0837505
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12176064
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18649717
M43807	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0895363
M43807	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08557404
M43807	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10641306
M43807	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.092806
M43807	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0809447
M43807	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0973997
M43807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09923784
M43807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0915248
M43807	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07949437
M43829	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.2204528
M43829	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.21911058
M43829	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2458943
M43829	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2145566
M43830	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2685823
M43830	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.26508961
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2455591
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5176038
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29731784
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29062705
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32977737
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2408878
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20014735
M43830	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.60881883
M43830	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.35443146
M43830	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.41076773
M43830	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.231996
M43831	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21838555
M43831	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.22515
M43831	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.19423164
M43831	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.19010953
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2721052
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4975623
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3186681
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22589231
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3219992
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2921723
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.221169
M43831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.44407852
M43831	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18609545

M43831	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.42886641
M43831	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.3165713
M43831	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.229587
M43831	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29267057
M43847	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1714772
M43847	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08089202
M43847	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0892125
M43847	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibact	-0.08563
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.11005
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacter	-0.1054755
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0981084
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08061278
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0978352
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0991483
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08759417
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0955397
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0929228
M43847	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11970982
M43847	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1581218
M43847	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1181441
M43847	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0914233
M43847	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1397229
M43847	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11569179
M43847	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10784279
M43847	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13817664
M44526	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1032605
M44526	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09735686
M44526	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0856671
M44526	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1310514
M44526	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.118402
M44526	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09574456
M44526	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0926866
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837976
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851542
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0879498
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0978004
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1537471
M44577	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11132372
M44577	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.08231733
M44577	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	-0.1243521
M44577	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1095025
M44577	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0901541
M44577	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.119356
M44577	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0858296
M44577	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0849593
M44577	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1084475
M44577	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.125898
M44577	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0933083
M44577	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0991721
M44577	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1129635

M44577	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0975708
M44621	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera	0.21158777
M44621	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	0.21158777
M44621	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18508691
M44621	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1967155
M44621	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20129675
M44621	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18359425
M44621	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18324427
M44621	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1775932
M44621	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1870852
M44621	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21381508
M44621	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.173688
M44621	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.18508691
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1846388
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.1681278
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1679731
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae	-0.1710818
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales	-0.2400548
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillales	-0.166038
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.2873291
M44621	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.2405338
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores	-0.2421584
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.2022423
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.1783141
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.1780049
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.19448521
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.22513027
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1982848
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae	-0.1752643
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.17778102
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1820001
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.1692198
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.2019598
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.19796301
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.2984578
M44621	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.22329281
M44621	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1752581
M44621	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1951619
M44621	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.21851065
M44621	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.22806656
M44621	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.20786778
M44621	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.1840299
M44621	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.3264965
M44621	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.17394127
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardimicrobiales	-0.1784451
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	0.1981059
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1951239
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.20505111
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1737075
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	0.21158777

M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1735835
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1898291
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19769908
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17873888
M44621	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18293673
M44621	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1816493
M44644	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21409382
M44644	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19144211
M44644	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.21805263
M44644	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2110377
M44644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21511603
M44644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.2194185
M44644	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20330303
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1687551
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1959444
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1942374
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29703474
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26382387
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26298793
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.43420648
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17499312
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19077105
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21619788
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.29616652
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18355516
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20606053
M44644	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34660105
M44644	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24938311
M44644	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.19850336
M44644	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20196987
M44644	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22733745
M44644	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21468156
M44644	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1826907
M44644	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1985529
M44644	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.21492518
M44644	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1948653
M44644	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36286108
M44644	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19436839
M44644	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.20789068
M44644	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.225305
M44656	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.097646
M44656	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.09140851
M44656	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11649832
M44656	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0836409
M44656	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10891178
M44656	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0818084
M44656	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.081486
M44656	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0823138
M44656	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08479945
M44656	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.12312059

M44656	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1003764
M44656	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0965017
M44656	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0853118
M44656	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	0.09602359
M44663	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2558692
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.2255514
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1711567
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnobacterium	0.2013575
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnobacterium	0.19742888
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.25151617
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.1616002
M44663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.31108689
M44663	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichum	-0.1818251
M44663	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichum	-0.1714447
M44663	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichum	-0.2476599
M44663	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.2581725
M44663	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella	0.38170733
M44663	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Desulfotomaculum	-0.165204
M44663	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasma	0.19919223
M44675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacterium	-0.1189342
M44675	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacterium	-0.0836834
M44675	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.0784962
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenella	-0.1300578
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2308585
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.2017944
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.0906796
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnobacterium	0.10025812
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnobacterium	0.12597711
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.0828224
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.098283
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.0832078
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	-0.0921612
M44675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.09019015
M44675	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichum	-0.1377275
M44675	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacterium	0.1140719
M44675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1220973
M44675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonas	0.11335423
M44675	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	-0.1781355
M44681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomyces	0.25838291
M44681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomyces	0.21786677
M44681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomyces	0.25478264
M44681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomyces	0.23114378
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.28245076
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.23627357
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophaga	0.22092971
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophaga	0.22478295
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacterium	0.28168407
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirillum	0.31201995
M44681	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__Sphingobacterium	0.31149255
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillus	0.34614248

M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.35727043
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2431944
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.21775316
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.2581375
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	0.30553979
M44681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	0.24051904
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	0.32456051
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.3257237
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.31485184
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.28374102
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.3919363
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.21225639
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.26829026
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.24888233
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.2696954
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.25377647
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.26979797
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	0.21239392
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	0.3057657
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.20618605
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.20825603
M44681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.34923352
M44681	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.30553807
M44681	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.2302654
M44681	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.25228487
M44681	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.23848312
M44681	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.26732077
M44681	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.20951756
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.24370843
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.20825603
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.33555606
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.21977305
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.45588252
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.25131774
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.32815939
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.26327784
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	0.26130786
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.38729542
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.22880009
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.3209715
M44681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.24496343
M44681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.28709913
M44681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.33690176
M44681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.46286631
M44681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.24435447
M44681	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.2388657
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	0.26130786
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales	0.31348604
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales	0.51028468
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.30067418

M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.30913671
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31129996
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29798188
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2301155
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2966912
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35916096
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.3674203
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27054521
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.31348604
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.29022885
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.21836125
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.24602466
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22973043
M44681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.42345394
M44681	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2949273
M44681	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.23420078
M44681	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	0.30049616
M44681	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22122133
M44681	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.2302654
M44688	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.22016437
M44688	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2525446
M44688	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2395249
M44688	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23297651
M44688	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27061898
M44688	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.36722263
M44688	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2618421
M44688	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2243283
M44688	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24532758
M44688	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.250785
M44872	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1192728
M44872	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1172729
M44872	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1061569
M44872	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0928634
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.09864
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08399707
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1070332
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0830678
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09623362
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12197877
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1376718
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.082559
M44872	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14424842
M44872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0965979
M44872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0992643
M44872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1218223
M44872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1083645
M44872	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1254422
M44872	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0793811
M44872	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1117003
M44872	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1080586

M44872	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11012281
M44876	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1757393
M44876	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3341638
M44876	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2608926
M44876	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.21241833
M44876	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2030722
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2256583
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2389849
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1770198
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17849505
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26109312
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32194451
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.224948
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2087953
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26769726
M44876	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3541672
M44876	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2407459
M44876	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2434978
M44876	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1848454
M44876	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29367099
M44876	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1836042
M44876	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21151723
M44876	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1938071
M44877	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.08355933
M44877	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08417971
M44877	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07954906
M44877	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08260288
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0926799
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1087817
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1257276
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07604315
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10099871
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10160992
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1004699
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0926897
M44877	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08932606
M44877	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15311201
M44877	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0791533
M44877	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09709317
M44877	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08133927
M44877	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.093451
M44878	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.20730929
M44878	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2236516
M44878	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2424485
M44878	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.20730929
M44878	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28873114
M44878	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.192949
M44878	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1970113
M44878	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2665989
M44878	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2231127

M44878	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.2338712
M44878	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2588664
M44878	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1950253
M44878	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2933775
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2216892
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2839898
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30394626
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22496685
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2418884
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2071887
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2381239
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1830071
M44878	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19306943
M44878	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2458605
M44878	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2673987
M44878	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.31726374
M44878	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2041913
M44878	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.417301
M44878	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25699003
M44878	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.21426949
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18088222
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19877472
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20545346
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29420793
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2366572
M44878	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2166246
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2502391
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22132917
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2810895
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2193558
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2050243
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2635355
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35620208
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.204646
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.20730929
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22835182
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2733433
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2502391
M44878	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2029569
M45413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2709287
M45413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2587124
M45413	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2845308
M45413	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.238207
M45413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.4206292
M45413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.3296356
M45413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.31559035
M45413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.52476121
M45413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2762177
M45413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.27526513
M45413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2587124

M45413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.2411823
M45413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23939653
M45413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.24198842
M45413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22504854
M45413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33640314
M45413	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.2431727
M45428	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1157849
M45428	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08143317
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1018304
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0931295
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1259886
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875938
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1018808
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1018808
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1052292
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1018808
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08125866
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0880369
M45428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0871057
M45428	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1207107
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0846883
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0937286
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0824605
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0918426
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08143317
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08215025
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.0897677
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.091107
M45428	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1009405
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1166337
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1018808
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0981147
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08304429
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0858241
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0946365
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0951538
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1024603
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0786091
M45428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1110885
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1132964
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1123748
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08860651
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1018808
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10549587
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1037209
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0869057
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1060915
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1336941
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1094903
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09580323

M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1463997
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0965752
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1005325
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16780609
M45428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.1018808
M45428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1040253
M45428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.12058
M45428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0973443
M45428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1127103
M45428	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07939797
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0979643
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1091914
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0953333
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08171781
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0997124
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1015759
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0905292
M45428	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0825792
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0849692
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1005325
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0990968
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0795427
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1130068
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08953637
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.107191
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.10702
M45428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1018808
M45428	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0913979
M45428	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0850155
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.107191
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1018808
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0850275
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0858124
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0795694
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.080043
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1060919
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0857753
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0784591
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0888503
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0999211
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18612078
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0879432
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0961532
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1269604
M45428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07996508
M45428	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1018808
M45428	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1018808
M45428	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1107248
M45428	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0899891
M45428	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.0996431

M45428	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.0947539
M45428	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0916732
M45428	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0947278
M45428	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0865788
M45434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1021434
M45434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09041865
M45434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0854513
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1013314
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1949828
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2387704
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0992762
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09776746
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17052129
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09030341
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0967588
M45434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11703536
M45434	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1045165
M45434	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfur	-0.1105848
M45434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1078432
M45434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1032618
M45434	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1343615
M45966	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.32417354
M45966	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.263043
M45966	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.3249732
M45966	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26739652
M45966	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.35141317
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2434702
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.23055297
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.4476799
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22929476
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27619713
M45966	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.27288839
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.2826452
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.26748887
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.25008252
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.24424361
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.24374858
M45966	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2971541
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2436275
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24740169
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.25194937
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.30027056
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.33847325
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2793769
M45966	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3196311
M45966	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2335401
M45966	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.26065984
M45966	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.26556499
M45966	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.23993824
M45966	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27708838

M45966	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.30729747
M45966	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2443712
M45966	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.40329234
M45966	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23738301
M45966	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.29841329
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.27829847
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24594483
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.33806533
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28816867
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29237233
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24945651
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2643464
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.2587161
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27351304
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25539479
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.27829847
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.24415026
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.31269311
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2291439
M45966	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.30372728
M45966	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f_	-0.2482647
M45968	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1765779
M45968	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17771665
M45968	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.1658214
M45968	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2169901
M45968	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18229233
M45968	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.26121026
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2770441
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1960916
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21680398
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25930246
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.38884354
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1732522
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.33275606
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1833246
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2037002
M45968	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.41066144
M45968	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2768086
M45968	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1881989
M45968	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.22394788
M45968	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1776733
M45968	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21630791
M45968	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.16961143
M45968	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1793739
M45968	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3288585
M45968	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19602406
M45968	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1746688
M45968	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f_	0.18972239
M45968	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__D	0.18943611
M45968	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2110321

M45970	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1165569
M45970	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0834007
M45970	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1289963
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.0918617
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1353371
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11672906
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09870583
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08459702
M45970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13251223
M45970	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1565224
M45970	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09215491
M45970	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09539975
M45986	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09083954
M45986	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.10018223
M45986	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0891979
M45986	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.11023839
M45986	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0834031
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	0.08190479
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.18579276
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13928844
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1643301
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0949127
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0826264
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1310561
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10084967
M45986	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1780059
M45986	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0822986
M45986	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0988819
M45986	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.15139287
M45986	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11802401
M45986	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1079281
M45986	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08823416
M45986	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0900138
M45986	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1150412
M45986	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1334549
M45986	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.103388
M45986	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09584081
M45986	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0848119
M45986	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.11589697
M46109	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1828576
M46109	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2515066
M46109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.2059491
M46109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2188638
M46109	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2120152
M46109	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2167218
M46109	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1952363
M46109	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2237486
M46109	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17799887
M46109	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18509905
M46109	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2022349

M46142	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0960343
M46142	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0974188
M46142	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1326872
M46142	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0909807
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1224375
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10113537
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0907728
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12401069
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0897164
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08998032
M46142	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21536857
M46142	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0775818
M46142	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0870872
M46142	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19012961
M46144	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21562056
M46144	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.219993
M46144	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.216411
M46144	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.22637441
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2570645
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22008431
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19233956
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20248985
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2930432
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1973255
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28093011
M46144	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32643765
M46144	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2831205
M46144	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20714363
M46144	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.18897287
M46144	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19581144
M46144	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1962745
M46144	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.28143402
M46144	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2276299
M46225	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10052483
M46225	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08317729
M46225	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11881239
M46225	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.11576099
M46225	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0875032
M46225	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.09197247
M46225	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10360276
M46225	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09028176
M46225	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09906515
M46225	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.0869085
M46225	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09549919
M46225	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08005568
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.086304
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11546651
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10790408
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10335207
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08894127

M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0930848
M46225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09807098
M46225	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08922689
M46225	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0934764
M46225	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09159135
M46225	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.10052483
M46225	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09088658
M46225	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10477966
M46225	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0854773
M46225	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11501397
M46225	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.07992631
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.12614557
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09918662
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0881442
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1053436
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08353706
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10088395
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09821751
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0841108
M46225	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09327079
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09954632
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12951229
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0789848
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08179908
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.109613
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1362763
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13976756
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.09564
M46283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1333191
M46283	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11914188
M46283	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.151043
M46283	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08714787
M46283	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1302946
M46283	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.081659
M46285	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.231259
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3431488
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2229438
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2062206
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2935685
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2087077
M46285	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2209903
M46285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.22341521
M46285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1906012
M46285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.22141897
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3268596
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.303723
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2222756
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5243009
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.363777
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23495406

M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22784476
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.47246443
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19983152
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.55891623
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1856725
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2930656
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.35574588
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2744538
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2062661
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2392375
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25587255
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2589121
M46285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.64057893
M46285	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2182432
M46285	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2497193
M46285	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2195677
M46285	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2309871
M46285	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1913004
M46285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.40331079
M46285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2274481
M46285	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2660207
M46336	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10464959
M46336	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0996492
M46336	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0992257
M46336	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.0998109
M46336	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1134986
M46336	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0897223
M46336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09322483
M46336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09308054
M46336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09518271
M46336	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08782674
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.12081569
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.21026597
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.1152259
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.10255087
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10113684
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08979469
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09030815
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08866448
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10523968
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.13359062
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.12662176
M46336	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1626574
M46336	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08984062
M46336	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10535124
M46336	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0924025
M46336	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.110649
M46336	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10450857
M46336	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0933943
M46336	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09303241

M46336	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1194394
M46336	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0858569
M46336	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.08947588
M46347	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2250839
M46347	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2278594
M46347	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.22363156
M46347	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__L	-0.2794308
M46347	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.22208969
M46347	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1789165
M46347	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22131046
M46347	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1751324
M46347	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.19010639
M46347	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1780922
M46347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.17993506
M46347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2223493
M46347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.17705349
M46347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19124641
M46347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3481212
M46347	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.21233605
M46347	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2081081
M46347	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1858691
M46347	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.1939852
M46347	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2250839
M46347	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2139558
M46347	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20520422
M46347	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19399905
M46347	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1951882
M46347	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18875679
M46347	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.32302788
M46347	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2171416
M46347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.19503235
M46347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2286206
M46347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.290712
M46347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2681585
M46355	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1916166
M46355	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.212872
M46355	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.221037
M46355	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3195583
M46355	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2062473
M46355	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23162623
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2711098
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.202617
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26924978
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34380236
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2397216
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2915418
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.30843212
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2066921
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25113617
M46355	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.43775124

M46355	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2109651
M46355	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.22792793
M46355	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	0.23871207
M46355	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.48049742
M46355	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.25902807
M46355	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistia.f__	-0.2065331
M46355	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.2559137
M46371	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.f__	-0.3214397
M46371	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2846364
M46371	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__	-0.304189
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.2011425
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.3540059
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.3875142
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.3521524
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.27416046
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.29186286
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.34738286
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__	0.25498298
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__	-0.2755181
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.24069259
M46371	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.66178631
M46371	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2400343
M46371	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.382325
M46371	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.2706515
M46371	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.2119778
M46371	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.37584089
M46371	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.2365275
M46398	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetia.f__	-0.2081314
M46398	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__	0.2312191
M46398	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia.f__	-0.3532398
M46398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2344516
M46398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.f__	-0.2578486
M46398	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.f__	0.19889526
M46398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.2330851
M46398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.277911
M46398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.2020928
M46398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__	-0.3275213
M46398	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	-0.1978459
M46398	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.22976572
M46398	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	-0.3462576
M46398	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	0.22681268
M46398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	0.21416005
M46398	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia.f__	-0.2495854
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	-0.2179149
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	-0.220745
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.22223088
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.3664357
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2300952
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.2958772
M46398	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	-0.2498133

M46410	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.093599
M46410	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.088414
M46410	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0914134
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1161178
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.191837
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2558451
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1548503
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0785585
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09999595
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07596535
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0946956
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09709167
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0793903
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1160178
M46410	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09942085
M46410	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1005691
M46410	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2092898
M46410	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07335947
M46410	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.135017
M46410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0758219
M46410	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0758393
M46455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2156215
M46455	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.31452841
M46455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18842755
M46455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2893455
M46455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1826483
M46455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19171748
M46455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.18571211
M46455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.17377858
M46455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.23298368
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5073525
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4041314
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30168024
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21805849
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20099119
M46455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17842145
M46455	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.20681711
M46455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2202856
M46455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2659381
M46455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18553776
M46455	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2461817
M46463	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0879456
M46463	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0938608
M46463	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08606054
M46463	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10046545
M46463	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09411134
M46463	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1184976
M46463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1151335
M46463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09159256
M46463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1152232

M46463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0954171
M46463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07953218
M46463	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0807227
M46463	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0835236
M46473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18032332
M46473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2461616
M46473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2290891
M46473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1852673
M46487	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21403049
M46487	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.20987514
M46487	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2155435
M46487	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24161325
M46487	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22766367
M46487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2293141
M46487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.21440822
M46487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.25308715
M46487	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.3041256
M46487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.3010425
M46487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21056014
M46487	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.2790157
M46487	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.222588
M46487	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2290901
M46487	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2253862
M46487	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.27457518
M46487	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21781171
M46487	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22470437
M46493	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1199929
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2123011
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1193058
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10936554
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13481036
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12083223
M46493	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1283467
M46493	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.14991316
M46493	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07709496
M46493	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11997051
M46493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07734713
M46493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1213322
M46493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.15826164
M46493	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07828537
M46493	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0856296
M46500	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0862843
M46500	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1118979
M46500	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08877079
M46500	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.14047686
M46500	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11972853
M46500	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08050313
M46500	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.101914
M46500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea.g	0.09601369
M46500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.093535

M46500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08148858
M46500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.12536356
M46500	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0797516
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0848306
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09695709
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09848289
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08846235
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14303064
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09424775
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08884319
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08734805
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0882104
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08172319
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09387685
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09293127
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1124421
M46500	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1860818
M46500	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0816628
M46500	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11629578
M46500	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10167255
M46500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08327237
M46500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.13159282
M46500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0862018
M46500	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0802064
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1212292
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1195802
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11672239
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0908888
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0908845
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0990233
M46500	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13405008
M46500	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0872212
M46500	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0836126
M46500	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0850531
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.099373
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1122942
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0966065
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0924363
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11370807
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1736873
M46500	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08327237
M46515	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36393127
M46515	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.1931338
M46515	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.24414794
M46515	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1892988
M46515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29117649
M46515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21677883
M46515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.20462892
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.7296091
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7374352

M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2844187
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27934891
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19783964
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.5101886
M46515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20533574
M46515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.381434
M46515	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3683559
M46517	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2048609
M46517	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.2010371
M46517	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18361513
M46517	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17915491
M46517	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.1975935
M46517	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1733239
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.24031061
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2065613
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1955481
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.22873297
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24011764
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19865662
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18411217
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23964771
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17972374
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19650078
M46517	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.37959297
M46517	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1728424
M46517	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2253965
M46517	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23197162
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.25544135
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19187991
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19202712
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30683606
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.21071187
M46517	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1959183
M46537	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11144168
M46537	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1259698
M46537	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.094122
M46537	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.12498058
M46537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0908286
M46537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09166433
M46537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1715276
M46537	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17276043
M46537	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0939458
M46537	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0803789
M46537	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0931468
M46537	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1701052
M46537	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0934738
M46537	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11859609
M46539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0856195
M46539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1212088
M46539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0832407

M46539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.080205
M46539	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0917567
M46539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0844526
M46539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1097622
M46539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08366983
M46539	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0842667
M46539	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0810575
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.157117
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1178071
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12513152
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1271673
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1409595
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08719763
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1223272
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0869963
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0896277
M46539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15519284
M46539	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.130854
M46539	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.133466
M46539	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07914195
M46539	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0844743
M46539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08052102
M46539	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	-0.0798457
M46539	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0892136
M46597	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0808846
M46597	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1014171
M46597	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0879842
M46597	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1477457
M46597	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09615657
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.16031
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1622747
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1078084
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15750869
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08097001
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13754096
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16137437
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0814112
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17303205
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1615724
M46597	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17987338
M46597	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1019343
M46597	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0774132
M46597	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.149007
M46597	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.128536
M46597	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0951614
M46597	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0801586
M46597	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1196529
M46597	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12269845
M46597	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.154512
M46599	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2903702

M46599	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Clostridia	0.32890247
M46599	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.2535943
M46599	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.2598123
M46599	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.26836494
M46599	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.22113243
M46599	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	0.20680893
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.6771913
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.7783543
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.2809245
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.35149541
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.28957792
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.20157099
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.28982465
M46599	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.307872
M46599	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	0.2237506
M46599	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.398503
M46599	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.5331417
M46604	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.1705918
M46604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.2027722
M46604	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Clostridia	0.16679922
M46604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.1896466
M46604	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Clostridia	-0.1676074
M46604	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Clostridia	-0.224078
M46604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	-0.2260929
M46604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.31790409
M46604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus	0.1869762
M46604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	0.18072752
M46604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcus	-0.2024475
M46604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__Caulobacteriales	-0.1671529
M46604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Rickettsiales	-0.2027722
M46604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.2038041
M46604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.196854
M46604	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2197316
M46604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__Chromatiales	-0.2314536
M46604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__Legionellales	0.17113956
M46619	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.1015737
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.080749
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.1007053
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.080553
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0766589
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.09652418
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.0832675
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriales	-0.0767212
M46619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriales	-0.0782391
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.1232051
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.0837377
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.0915861
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.1082481
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Clostridia	-0.0944866
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Clostridia	-0.083578

M46619	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0803901
M46619	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1284092
M46619	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0860513
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1225446
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0985884
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0807986
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0834699
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0784975
M46619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0795425
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0860384
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1926
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2222862
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1448046
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0794362
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0921454
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07911003
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1164812
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1182147
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0897751
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0857024
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.143336
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.078295
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1163612
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1399788
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1350467
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0863351
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0917581
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0954738
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0852555
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0785674
M46619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0915851
M46619	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0921975
M46619	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1769416
M46619	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0979742
M46619	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0933829
M46619	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.079815
M46619	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1003284
M46619	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12226843
M46619	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0878599
M46619	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.079139
M46619	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0902283
M46619	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0889102
M46619	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.130294
M46619	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10176909
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0921803
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10476219
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0794327
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07676394
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0890469
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.082946

M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1019156
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0783415
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.096002
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0824123
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0795251
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0880442
M46619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0933829
M46619	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0921869
M46619	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2265668
M46619	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0979742
M46632	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0873717
M46632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1069778
M46632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0822065
M46632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0827259
M46632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0883206
M46632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0768234
M46632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1315447
M46632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0857433
M46632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10262571
M46632	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0792816
M46632	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1075054
M46632	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0948087
M46632	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0886925
M46632	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1941934
M46632	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0810036
M46646	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.084855
M46646	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1116758
M46646	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10188104
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1809899
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1252411
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1696007
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0995446
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0996181
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.082234
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1331623
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0989551
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0867844
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0946314
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0875632
M46646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08375451
M46646	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0915829
M46646	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0904404
M46646	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1308565
M46646	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11347848
M46646	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08482648
M46646	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1089192
M46661	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	-0.2061925
M46661	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.18976046
M46661	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.36488622
M46661	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2061925

M46661	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1777647
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23158076
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4129597
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18134655
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20097752
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17997254
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2406465
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18471985
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1765372
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17997254
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1676192
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16925014
M46661	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17139158
M46661	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriia	0.19294043
M46661	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.17997254
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24167426
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21755005
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24280659
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1790805
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22086456
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.27595533
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__f	0.19198236
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1777647
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22217408
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25408191
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1862492
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18896707
M46661	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.17997254
M46661	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.17997254
M46661	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__f	0.16655033
M46661	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.1801832
M46661	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.2018372
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.18279033
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.25798478
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.3918169
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.17997254
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.29722871
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.172912
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.31769522
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18587235
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.18485256
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.35442211
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.18123584
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.2155954
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.27495119
M46661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23801519
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.18015215
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.17997254
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.19270105
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.2179952

M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.18982574
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1931524
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.43079355
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.18762918
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.19091066
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.25034405
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.37997862
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.27559127
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18997849
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16651398
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21820103
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1883355
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.29502554
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18438146
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.17291604
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.2991813
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17062099
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23561376
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.17879498
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24939794
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22157895
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18200961
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.233722
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23583924
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.35262383
M46661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26084547
M46661	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23512767
M46661	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.25600938
M46661	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22035367
M46661	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.17350568
M46661	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1799718
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1799718
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1929118
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22568541
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2318737
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2130148
M46661	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1986063
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20766693
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26238423
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27620409
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17264474
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16541006
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.37703706
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2612941
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.36102901
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.1785223
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17509443

M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.35192735
M46661	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.27279486
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.16846576
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.25706179
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24265894
M46661	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.18749888
M46661	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1832438
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1799718
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.2229001
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.1785223
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.22300325
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.29232759
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.28114328
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26208373
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21792655
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35369672
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.46699365
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19764528
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19284855
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18990061
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35536972
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21019657
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24976809
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20305079
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24642552
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25806974
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.16963618
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2061925
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26951155
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17997254
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27407272
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18271473
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.29232759
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.17091495
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.20552601
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.41588609
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.35214
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.17208573
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.33377535
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1762133
M46661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1799718
M46661	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1888626
M46661	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dc	0.20474678
M46661	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.33481088
M46661	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.30591247
M46661	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17350568

M46661	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae.f	-0.1799718
M46677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2875264
M46677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22202307
M46677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27320846
M46677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17535922
M46677	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.20938651
M46677	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	0.19424432
M46677	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	0.43147595
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.22694473
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.27258775
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.2755944
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales.f	0.23375363
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales.f	-0.2850121
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	0.19231735
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales.f	0.19809452
M46677	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__Sphingobacteriales.f	0.21455132
M46677	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales.f__Deferribacteriales.f	0.36086351
M46677	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__Fibrobacterales.f	-0.1740017
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__Planococcaceae.f	0.2292536
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__Planococcaceae.f	-0.1811665
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__Planococcaceae.f	-0.2745407
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.f__Aerococcaceae.f	0.19691142
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.f__Aerococcaceae.f	0.19785957
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__Enterococcaceae.f	0.20667373
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__Enterococcaceae.f	0.18630023
M46677	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconaceae.f__Leuconaceae.f	0.19780466
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	0.25908473
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	-0.2958405
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	-0.3262017
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	0.24069879
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriaceae.f__Eubacteriaceae.f	0.20209298
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.3703602
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.28815536
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.46034969
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.17346477
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.19110535
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.21044732
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__Lachnospiraceae.f	0.36095857
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.f__Peptostreptococcaceae.f	0.19888448
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.f__Peptostreptococcaceae.f	0.27837667
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__Ruminococcaceae.f	0.18236899
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__Ruminococcaceae.f	0.18174207
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__Ruminococcaceae.f	0.18220117
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae.f__Tissierellaceae.f	0.21373598
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae.f__Tissierellaceae.f	0.28605816
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae.f__Tissierellaceae.f	0.18079627
M46677	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.f__Veillonellaceae.f	0.19620848
M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	0.17368816
M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	0.27533496
M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	0.42096678

M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21861957
M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.2003682
M46677	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21924251
M46677	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.1838738
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.2812579
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.30024652
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2091262
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2875264
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.18633256
M46677	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.19081108
M46677	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.300887
M46677	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22982032
M46677	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21027328
M46677	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22423393
M46677	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2925019
M46677	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2632491
M46677	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3179658
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.28470048
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.21069348
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1751099
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21957655
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24876978
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2656445
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.27349779
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1767373
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1906529
M46677	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.18633199
M46677	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.20540431
M46677	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.20943403
M46677	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.23934063
M46677	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.20474444
M46677	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.21499155
M46689	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.094649
M46689	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.096062
M46689	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1288363
M46689	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0957935
M46689	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.083668
M46689	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.098594
M46689	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.102792
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0877391
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0792272
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09285684
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1011028
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0904947
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0838386
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1335014
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11963743
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1444909
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.08941
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1165396

M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.097371
M46689	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15047388
M46689	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1272415
M46689	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.161587
M46689	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0964568
M46689	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1022509
M46689	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0926448
M46689	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15870416
M46689	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0852692
M46689	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0884216
M46705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.083249
M46705	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.084535
M46705	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.08639422
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.13401814
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0880514
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12920603
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11803954
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15096162
M46705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.08235
M46705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08356193
M46705	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0845521
M46705	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08127868
M46705	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0805996
M46705	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0789567
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08267767
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.09403
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08322105
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1059701
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08069048
M46705	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.079055
M46705	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08471561
M46706	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.22518806
M46706	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.22910187
M46706	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2030415
M46706	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1946597
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5297131
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2918074
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33731555
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20451744
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.35184358
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21186978
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31491877
M46706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20749417
M46706	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.24828933
M46706	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.32239084
M46706	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.2070867
M46706	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2031996
M46706	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19479287
M46706	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2094849
M46707	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.13614572

M46707	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10826998
M46707	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.11339644
M46707	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10405174
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.0879248
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08196213
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14042426
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.11601548
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.09590164
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1004583
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09143693
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10131804
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.1259582
M46707	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1535494
M46707	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08145183
M46707	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08523808
M46707	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08301714
M46707	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09191371
M46707	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1124313
M46707	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.0864454
M46707	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09558498
M46707	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.167602
M46707	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.0874215
M46738	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0759277
M46738	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08168403
M46738	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0946646
M46738	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.09899
M46738	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08296615
M46740	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10112521
M46740	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0913672
M46740	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0782105
M46740	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08769755
M46740	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09059568
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1236703
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1485052
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14253821
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10640304
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08747218
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09379458
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10123961
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0778131
M46740	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10189407
M46740	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08870908
M46740	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.119585
M46740	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15216507
M46740	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0818445
M46740	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10667834
M46740	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11692089
M46740	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.094909
M46798	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19538323
M46798	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.19748014

M46798	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2237482
M46798	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1883865
M46798	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22970455
M46798	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18810842
M46798	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.254027
M46798	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19604347
M46798	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18370128
M46798	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17854263
M46798	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20774158
M46798	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3118175
M46799	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09801125
M46799	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08291762
M46799	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0808608
M46799	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0931549
M46799	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0987243
M46799	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0805247
M46799	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0813527
M46799	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09477234
M46799	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08875804
M46799	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1032545
M46799	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1089299
M46799	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0839333
M46799	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.13696897
M46799	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08783096
M46799	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1022655
M46799	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0847232
M46799	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0979814
M46799	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1324672
M46898	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1147192
M46898	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0835794
M46898	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1016725
M46898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1349925
M46898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1028673
M46898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09499115
M46898	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1074919
M46898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0950601
M46898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1092781
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0987654
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0965377
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07852801
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1238059
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18384589
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1125705
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.095378
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0925019
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0869116
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13509231
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1181938
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0862757
M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1350794

M46898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16324158
M46898	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.10467733
M46898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0797582
M46898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1150743
M46898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1220894
M46898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1161908
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0946155
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0804526
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0951424
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0946134
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0845664
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17294834
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0946155
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1098538
M46898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1160727
M46960	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0911847
M46960	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1307736
M46960	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08202672
M46960	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0793972
M46960	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.07810076
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1811317
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0890593
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2307408
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1047748
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0774419
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07999042
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15323936
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18046544
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1084166
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1264381
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15980139
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1315007
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08880493
M46960	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17821322
M46960	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1087029
M46960	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08021881
M46960	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.07625571
M46960	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.136336
M46960	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3731711
M46960	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0938729
M46960	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16846808
M46960	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10022447
M46960	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1195517
M46964	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2039411
M46964	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2975453
M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2654766
M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3731863
M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2570251
M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22328105
M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28646667

M46964	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.35158792
M46964	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24437262
M46972	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928836
M46972	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09334375
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1044413
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1230135
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08489228
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09781211
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09714644
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10976313
M46972	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0804198
M46972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.08896823
M46972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10234863
M46972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.10406204
M46972	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08767096
M46972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11212123
M46972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08696643
M46972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0867178
M46972	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09476607
M46972	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0779635
M46972	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.088631
M46972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1242919
M46972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.088039
M46972	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11687254
M46972	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08133187
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.10871687
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08030146
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1225811
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08541711
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11011553
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0898033
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08987889
M46972	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10371764
M46972	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0781841
M46989	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2405125
M46989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3343039
M46989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1981259
M46989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24605995
M46989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29990821
M46989	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34363177
M46989	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23825753
M46989	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.29172485
M46989	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2256466
M47089	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1234035
M47089	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.09798374
M47089	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08895648
M47089	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0891223
M47089	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0779345
M47089	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.128653
M47089	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09641454

M47089	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10639727
M47089	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08036135
M47089	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08246776
M47089	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0982577
M47089	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1448557
M47089	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09743113
M47089	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3077096
M47101	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10007532
M47101	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1455269
M47101	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1128717
M47101	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08292702
M47101	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08619858
M47101	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0904165
M47101	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0955202
M47101	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0992968
M47113	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2272563
M47113	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.18494064
M47113	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17992188
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3473187
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.360078
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21705705
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19776931
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25249154
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24610783
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31713138
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.3042417
M47113	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.39610451
M47113	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3650453
M47113	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30330266
M47113	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.16909654
M47113	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.17121195
M47123	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0897329
M47123	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0796818
M47123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0966637
M47123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.077407
M47123	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales.f__Turicib	-0.0998262
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0784266
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1703671
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.094576
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1597795
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0921764
M47123	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0813319
M47123	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0813523
M47123	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1114657
M47123	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0877075
M47183	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.114021
M47183	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.125038
M47183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1174061
M47183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0979774
M47183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0830175

M47183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1640703
M47183	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1034906
M47183	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1178209
M47183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrion	-0.0886468
M47183	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0892456
M47194	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1019819
M47194	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0801249
M47194	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1304467
M47194	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1096767
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0894957
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0993714
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0814511
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13407191
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09204711
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0847044
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0857314
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1458612
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09153834
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.130665
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0848867
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1283592
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0834826
M47194	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0920175
M47194	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.102989
M47194	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.092763
M47194	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1208443
M47194	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1037779
M47194	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0983774
M47194	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0847599
M47195	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1081618
M47195	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0764135
M47195	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0915542
M47195	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1495968
M47195	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0972628
M47195	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1001655
M47195	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1069371
M47195	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0787583
M47195	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0887843
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0898835
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0967972
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0990662
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0803333
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09361759
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0807726
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1215401
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1866293
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1112293
M47195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0889687
M47195	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1077212
M47195	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.104647

M47195	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.082635
M47195	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1559895
M47195	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteraceae	-0.0879141
M47195	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	-0.0784559
M47196	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae	-0.1478665
M47196	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriaceae	-0.1341985
M47196	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1048482
M47196	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1296191
M47196	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0826092
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.1485075
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.1744658
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriaceae	-0.1088971
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae	0.0841806
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae	0.10825646
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.16816
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1099592
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriaceae	-0.0916319
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriaceae	-0.0980208
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriaceae	-0.1076329
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellaceae	-0.0955957
M47196	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellaceae	0.14102555
M47196	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.0979253
M47196	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.0849957
M47196	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	-0.0879838
M47196	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	0.08414603
M47196	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionaceae	-0.1083788
M47196	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	-0.0837188
M47196	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__Verrucomicrobiaceae	-0.1235794
M47197	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriaceae	-0.1382766
M47197	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0923339
M47197	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriaceae	-0.1182647
M47197	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	-0.0887224
M47197	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.0814022
M47197	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	-0.1110554
M47197	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0958072
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.1212344
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriaceae	-0.148331
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriaceae	-0.110168
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae	-0.09894
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae	0.15439189
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospiraceae	0.13696075
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae	-0.1031328
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1199499
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.12909383
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1493535
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriaceae	-0.0840852
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieriales.f__Tissieriaceae	-0.1659004
M47197	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellaceae	-0.0906941
M47197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.1155445
M47197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	-0.0841953

M47197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.110591
M47197	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae.g__Erysipelotrichaceae.g	-0.1660359
M47197	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Rickettsiales.f	-0.0923339
M47197	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales.f	-0.0914338
M47197	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.o	-0.0904892
M47203	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriales.f	-0.1020478
M47203	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	0.08901521
M47203	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	-0.1073349
M47203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1195496
M47203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1061942
M47203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.08697358
M47203	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.0804452
M47203	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	-0.0776213
M47203	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.087186
M47203	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Planococcaceae.g	-0.0895464
M47203	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Enterococcaceae.g	0.07830506
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__Christensenellales.f	-0.0979808
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f	-0.2484906
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__Dehalobacteriales.f	-0.2876093
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__Eubacteriales.f	-0.1353295
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	0.08574105
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	0.08274586
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__Lachnospirales.f	0.08103787
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__Mogibacteriales.f	-0.1052025
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.g__Peptococcaceae.g	-0.0917089
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	-0.1551233
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	0.11251226
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	-0.1272741
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__Ruminococcaceae.g	-0.0779151
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales.f	0.08807968
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales.f	0.07491992
M47203	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__Veillonellales.f	0.22080819
M47203	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales.f	-0.1686909
M47203	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales.f	-0.0807924
M47203	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales.f	-0.0834958
M47203	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales.f	-0.0901203
M47203	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales.f	0.13715864
M47203	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadales.f	0.07463335
M47203	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.o	-0.192716
M47204	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriales.f	-0.0932524
M47204	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales.f	0.11298898
M47204	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales.f	-0.0973511
M47204	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1022216
M47204	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.1004368
M47204	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	0.08722934
M47204	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f	-0.0904972
M47204	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales.f	-0.0937893
M47204	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillaceae.g	-0.0988223
M47204	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Enterococcaceae.g	0.09822194
M47204	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcaceae.g	0.09066451

M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0890163
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2285547
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2504931
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1221126
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10346776
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08342963
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07380958
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0815529
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1499494
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10729852
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.101464
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09641416
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0780769
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0764814
M47204	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21071175
M47204	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1639573
M47204	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08360758
M47204	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0860876
M47204	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0772646
M47204	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0773811
M47204	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0740801
M47204	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0830537
M47204	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.088745
M47204	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.135407
M47204	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0800463
M47204	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1774587
M47205	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1986969
M47205	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17348976
M47205	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19911828
M47205	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.209645
M47205	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1904226
M47205	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2618556
M47205	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2043372
M47205	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1805807
M47205	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1962068
M47205	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3018396
M47205	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.19724379
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19981988
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4992869
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2058308
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5830797
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2831416
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2451233
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1869005
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2033611
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2089488
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2919069
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2809618
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1943733
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1868231

M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18969164
M47205	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.37276662
M47205	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2766345
M47205	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2024029
M47205	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1758115
M47205	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1885179
M47205	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17382151
M47205	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.22787446
M47205	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1793161
M47205	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3875445
M47211	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1961365
M47211	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1961365
M47211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19863748
M47211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24740223
M47211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2624437
M47211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2071811
M47211	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19978954
M47211	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2186656
M47211	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19047964
M47211	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2222667
M47211	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2437922
M47211	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2766557
M47211	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2359155
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2022868
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2140829
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2365932
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32422287
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20833208
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20326418
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19740286
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19443806
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.2257767
M47211	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24329541
M47211	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2359502
M47211	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.2055801
M47211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2260665
M47211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2450205
M47211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2006039
M47211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2624437
M47211	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23888483
M47211	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.199802
M47211	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1951606
M47211	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2079875
M47211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2423224
M47211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2489593
M47211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1961365
M47211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2114417
M47211	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.22665072
M47211	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.25371033
M47211	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.20705293

M47217	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0828984
M47217	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales.f__	0.08724377
M47217	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__	0.11922469
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.0903463
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.1205373
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1257538
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.11213755
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.10258642
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.0779788
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	0.09756815
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.0788568
M47217	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.09555029
M47217	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08187304
M47217	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0830555
M47217	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1076422
M47217	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0951782
M47217	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1348147
M47217	genus	k__Bacteria.p__Fusobacteriia.c__Fusobacteriia.o__Fusobacteriales.f__	0.09443931
M47217	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.09153974
M47217	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales.f__	0.08769128
M47217	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.0888642
M47218	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0934189
M47218	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0923531
M47218	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0802621
M47218	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	0.07679011
M47218	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0998749
M47218	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0741915
M47218	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__	0.09084596
M47218	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0776498
M47218	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__	0.09925692
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.137667
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.1377849
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	-0.1618163
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1325846
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.10682585
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.17297717
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.11854878
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.11710383
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.17431388
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	-0.073669
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.0886305
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	0.19878776
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.1601563
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.10028448
M47218	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.21278772
M47218	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0854353
M47218	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1097374
M47218	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1138713
M47218	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1156991
M47218	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.1162949

M47218	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15903276
M47218	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1094711
M47219	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0929297
M47219	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11878062
M47219	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10823366
M47219	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.08503867
M47219	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.09196872
M47219	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08474984
M47219	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0905376
M47219	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0896394
M47219	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1238454
M47219	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1159682
M47219	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09768553
M47219	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.093017
M47219	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylob	-0.0852728
M47219	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacter	0.08887044
M47219	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurell	-0.0888558
M47219	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurell	-0.0894116
M47219	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__M	-0.088086
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2021567
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17516744
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2022705
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2119534
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17657459
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.256771
M47222	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19855363
M47222	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.19414539
M47222	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomon	0.17277757
M47223	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0790205
M47223	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1103168
M47223	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1098691
M47223	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1171051
M47223	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0879808
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1213709
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1190538
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09185088
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08150789
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0909152
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1198351
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07818733
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1141467
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0861183
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0933489
M47223	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07434988
M47223	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0868841
M47223	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1281016
M47223	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0987955
M47223	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacter	-0.0807454
M47223	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacter	0.07801697
M47224	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.077831

M47224	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08049363
M47224	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0815078
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0998222
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1125183
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0890662
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0769067
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0834286
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16276853
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12551553
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09279099
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10024732
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13092628
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.097667
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08265746
M47224	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12433427
M47224	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1050903
M47224	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0905036
M47224	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.07806633
M47224	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08580415
M47224	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.120639
M47224	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.07692761
M47224	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1049136
M47224	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08467042
M47225	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10098489
M47225	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12624356
M47225	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07783639
M47225	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08633654
M47225	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0785119
M47225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0809719
M47225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08987512
M47225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10786433
M47225	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09709194
M47225	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09010163
M47226	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0922523
M47226	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13835472
M47226	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08703812
M47226	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11230736
M47226	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09269146
M47226	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10910032
M47226	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09926306
M47227	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1052403
M47227	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0895177
M47227	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1035104
M47227	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0826304
M47227	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1224287
M47227	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.091052
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1042927
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1105075
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12709099
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1306203

M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0842802
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1348024
M47227	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1090824
M47227	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1345967
M47227	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1074045
M47227	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1080491
M47227	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1552373
M47227	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.09593018
M47227	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.088004
M47227	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0951079
M47227	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0872073
M47227	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.0886274
M47230	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0954251
M47230	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1410767
M47230	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.09143772
M47230	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.0902887
M47230	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales	-0.1079527
M47230	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae	-0.1002705
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.0964899
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.09322819
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.0895299
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.076828
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1313217
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0759058
M47230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.1204643
M47230	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0951567
M47230	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1155908
M47230	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.098847
M47230	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0754272
M47230	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0932192
M47230	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0858826
M47231	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0831217
M47231	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.08214014
M47231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales	0.0875035
M47231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08701534
M47231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1015773
M47231	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.0951794
M47233	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0791297
M47233	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.09180059
M47233	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.0881472
M47233	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales	-0.1080152
M47233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.1043208
M47233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.0832907
M47233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0856203
M47233	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.089406
M47233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.1085838
M47237	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2335293
M47237	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.26359034
M47237	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.381391
M47237	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2108126

M47237	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2386491
M47237	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.37028722
M47237	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.262667
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2541775
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33840732
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2254624
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.313717
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.377799
M47237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2456343
M47237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2799107
M47237	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2671144
M47237	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2120819
M47237	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2802342
M47239	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0868288
M47239	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.09206373
M47239	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0942518
M47239	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1017583
M47239	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0817349
M47247	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.084578
M47247	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1064269
M47247	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.09878
M47247	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0970689
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0961423
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1483559
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1881005
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1456435
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11785699
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12879896
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1024457
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1256553
M47247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.196585
M47247	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.152276
M47247	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1911338
M47247	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.14862463
M47247	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0845925
M47247	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16440503
M47247	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1461992
M47254	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22021491
M47254	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23095057
M47254	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2629626
M47254	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3277893
M47254	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2499565
M47254	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23262872
M47254	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2293748
M47254	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2564121
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19212629
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2644089
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3330687
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.18151161
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2409953

M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2184491
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20251633
M47254	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2055182
M47254	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1876541
M47254	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.25102309
M47254	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2917107
M47254	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.31026902
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2931988
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2676768
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2861746
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3217122
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20502065
M47254	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3266347
M47254	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2633404
M47254	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18068309
M47254	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.259095
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2265372
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2347501
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2597591
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2569687
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.259131
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.29405264
M47254	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.193427
M47254	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.22818754
M47255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0954003
M47255	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1086346
M47255	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1045736
M47255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1672683
M47255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1572179
M47255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0968678
M47255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1014459
M47259	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1706908
M47259	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2232644
M47259	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2299417
M47259	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1760302
M47259	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.18983
M47259	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.19943658
M47259	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1782467
M47259	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1812787
M47259	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2081498
M47259	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2643566
M47259	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25377193
M47259	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.258983
M47259	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.27603051
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2120895
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2001448
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2329573
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1937302
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1881176
M47259	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2023769

M47259	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.22015084
M47259	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.16353002
M47259	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.2086559
M47259	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	0.18447732
M47259	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	-0.1993575
M47259	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1847042
M47259	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1796704
M47259	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.2611698
M47259	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.240457
M47259	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1906809
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__Chlorobacteriales	-0.2121486
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.2148313
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.2371044
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.2742098
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales	-0.1812031
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionales	-0.2588586
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	0.17421254
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	-0.2347078
M47259	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	-0.2287518
M47261	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__Methanobacteriales	-0.246393
M47261	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanobacteriales	-0.2004503
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.2050993
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.1931696
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.18219
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.2094073
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.1835148
M47261	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriales	-0.2288353
M47261	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1876641
M47261	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2631931
M47261	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	-0.2315734
M47261	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirales	-0.2047484
M47261	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.1804321
M47261	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1978466
M47261	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae	-0.2130663
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.1876189
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores	-0.1847925
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.1910443
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.2104864
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2604682
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.1884302
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.2407667
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.2638584
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.1793195
M47261	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.3096988
M47261	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	0.18096453
M47261	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.2004895
M47261	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.2143721
M47261	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	-0.2003524
M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.205704
M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.1827767

M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2592838
M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2732966
M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2390534
M47261	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2067994
M47261	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1826999
M47261	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2352568
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2262121
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.179348
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2457973
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2242698
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1875623
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2668469
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2094531
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3567075
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1915912
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1887787
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.179348
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.302852
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19626606
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1914271
M47261	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2616512
M47261	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.21228527
M47261	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1998787
M47263	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2534962
M47263	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3027845
M47263	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2604438
M47263	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1725533
M47263	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1894391
M47263	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27847398
M47263	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2632745
M47263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2934024
M47263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1989042
M47263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.19650228
M47263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.30714159
M47263	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2155014
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1851383
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17922575
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2224324
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2062782
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.31924135
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2507696
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25566053
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25797144
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19020697
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26838001
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.19884942
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1995006
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.3775785
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2623634
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20373037

M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1821782
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2015855
M47263	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19847498
M47263	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3250224
M47263	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.16795395
M47263	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2322552
M47263	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.31584466
M47263	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1878696
M47263	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3208034
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25099221
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21480303
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2764578
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22858498
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2612171
M47263	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2316705
M47263	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1942684
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29466699
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17178521
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1763496
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1903609
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1856935
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17727283
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.2013439
M47263	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3316318
M47263	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.27526875
M47263	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1836595
M47265	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0861048
M47265	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1316469
M47265	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0833816
M47265	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0870917
M47265	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1224745
M47265	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0824562
M47265	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1007968
M47265	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0823873
M47265	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1545342
M47265	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10441201
M47265	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.11145242
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1700246
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1838015
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2877237
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1984323
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.108243
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10099829
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18032872
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08569988
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24705373
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0886733
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1557835
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18926217
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1606183

M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07927253
M47265	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27151925
M47265	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1015152
M47265	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0888847
M47265	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1855557
M47265	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08395845
M47265	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1199626
M47265	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1020446
M47265	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1267387
M47265	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1142233
M47265	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0974595
M47265	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1402875
M47265	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0942813
M47265	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24160603
M47265	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1911344
M47266	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1122448
M47266	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1063898
M47266	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08190655
M47266	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1151396
M47266	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0857797
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0892493
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0910262
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1141996
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1700613
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0848607
M47266	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0802231
M47266	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1097386
M47266	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0856073
M47266	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0968546
M47266	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1452171
M47266	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0797132
M47266	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.10222
M47267	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1269108
M47267	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0992603
M47267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.085561
M47267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1338897
M47267	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.086173
M47267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1083865
M47267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0899698
M47267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1103834
M47267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0885983
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1197807
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0849701
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0904986
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1445719
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0953331
M47267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1383863
M47267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.100827
M47267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0812135
M47267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1138722

M47267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1005963
M47267	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.100515
M47267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0909005
M47267	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1090039
M47267	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0853499
M47268	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	0.09422257
M47268	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.12035355
M47268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.1020654
M47268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11132962
M47268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11874839
M47268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.07981851
M47268	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales.f__	0.09923934
M47268	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__	0.11327827
M47268	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcales.f__	-0.106055
M47268	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacteriales.f__	-0.0933448
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	0.12556747
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.08581445
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	-0.0806115
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.14731491
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	0.15417098
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	0.10261753
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	-0.1147064
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	0.10180228
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales.f__	0.11268163
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	0.0877716
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	0.13219535
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.0969823
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.10293049
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	0.10854463
M47268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.0971137
M47268	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.09449108
M47268	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.07915461
M47268	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	0.09016937
M47268	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.08736183
M47268	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.10548267
M47268	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	0.16002925
M47275	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0820926
M47275	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales.f__	-0.0948103
M47275	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcales.f__	0.08979616
M47275	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	-0.0928789
M47275	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08172692
M47275	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0840132
M47275	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1106975
M47275	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.08035637
M47276	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	-0.0861684
M47276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.1046086
M47276	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.0966315
M47276	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0937038
M47276	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0799789
M47276	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1358084

M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0876578
M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0831769
M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0812313
M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0997138
M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0946642
M47276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0942414
M47276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0907822
M47276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0862579
M47276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.102063
M47276	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0910673
M47276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09665126
M47276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1060687
M47276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0988651
M47277	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0936376
M47277	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1325558
M47277	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08336622
M47277	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0981097
M47277	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1208605
M47277	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0844618
M47277	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.085707
M47280	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08793994
M47280	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09712524
M47280	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.10619387
M47280	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.0905407
M47280	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.086345
M47280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0897428
M47280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.089844
M47280	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08235826
M47280	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10668145
M47280	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0860693
M47280	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08356268
M47280	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10254409
M47280	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08488038
M47280	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1075294
M47280	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08488038
M47283	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09148925
M47283	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1218495
M47283	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11383313
M47283	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12871261
M47283	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.14022035
M47283	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.12465785
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12095484
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1317239
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0880535
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1009077
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09645906
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.084479
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13196667
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18902646
M47283	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12196389

M47283	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09627972
M47283	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1300106
M47283	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09430783
M47283	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09423874
M47283	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0828542
M47283	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11323743
M47283	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09212397
M47291	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.097108
M47291	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1145863
M47291	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09249001
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1551143
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1154288
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0956115
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09141302
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09627645
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0792923
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0928555
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1488587
M47291	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12026489
M47291	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1240836
M47291	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1081325
M47291	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1205819
M47291	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1833268
M47291	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0909159
M47291	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0962556
M47291	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.091015
M47298	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4271659
M47298	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2483088
M47298	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.29627512
M47298	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2839666
M47298	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2443085
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2549748
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3194059
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2354333
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2246687
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2541543
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2359316
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3077158
M47298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2279969
M47298	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.234487
M47298	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2544194
M47298	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2395388
M47298	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2390549
M47298	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3243003
M47298	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2651415
M47298	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2165895
M47307	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1390047
M47307	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0929286
M47307	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0858353
M47307	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08296905

M47307	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0948162
M47307	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.136814
M47307	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0924569
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1453883
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0828658
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09093069
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11750301
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10867676
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0924321
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0922057
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1305283
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.12564
M47307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1035021
M47307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1162716
M47307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.150239
M47307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1681043
M47307	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0929286
M47307	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0852107
M47307	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0833212
M47307	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.084341
M47308	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1898804
M47308	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1880305
M47308	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1820803
M47308	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1706179
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20861316
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19070953
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19244686
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.18517346
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26168367
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1702663
M47308	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1686089
M47308	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1976828
M47308	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1898804
M47308	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.18061978
M47308	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17723162
M47308	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1682552
M47308	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1902725
M47316	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0870975
M47316	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1028767
M47316	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1243832
M47316	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0949686
M47316	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0943596
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0872885
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1587014
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1155945
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09370166
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09740297
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.113114
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0882164
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0879634

M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1658024
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1139998
M47316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.093942
M47316	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0873543
M47316	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1017895
M47316	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.156921
M47316	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1200957
M47316	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1108139
M47316	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1230975
M47317	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1277877
M47317	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1055752
M47317	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0888914
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1300177
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1395145
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1828553
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0939762
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15180935
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13083562
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1732341
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09204591
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1664635
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1054244
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0897699
M47317	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13265894
M47317	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1130034
M47317	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.108208
M47317	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1537208
M47317	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.0856212
M47317	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1047024
M47320	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1284075
M47320	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0854491
M47320	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1027441
M47320	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1143797
M47320	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09813332
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07836993
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1017478
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0958461
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1064702
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.080856
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1055671
M47320	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0838751
M47320	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1196643
M47320	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0944919
M47320	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.11068
M47320	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0806617
M47320	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1008695
M47320	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1037731
M47323	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1365461
M47323	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1388962
M47323	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09939693

M47323	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0879618
M47323	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1063872
M47323	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09899454
M47323	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	-0.1320498
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.111633
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.088691
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.0963966
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.1104306
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.0898723
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1169138
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.0896133
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0867027
M47323	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.0834731
M47323	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0968611
M47323	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0848688
M47323	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0975659
M47323	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1212985
M47328	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1172379
M47328	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09427486
M47328	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09319948
M47328	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1369133
M47328	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalospirillum	-0.1213416
M47328	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1153792
M47328	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1232061
M47328	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.1239872
M47328	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.096575
M47328	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1049326
M47328	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0867556
M47328	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1340227
M47328	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.10299819
M47328	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0901573
M47328	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.09186216
M47330	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.17160717
M47330	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.210594
M47330	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.22506803
M47335	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1777028
M47335	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.16847058
M47335	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1754762
M47335	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.17931409
M47335	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.270681
M47335	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.19616411
M47335	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.23782058
M47335	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.20792245
M47335	genus	k__Bacteria.p__Deferritales.c__Deferritales.o__Deferritales	0.26790842
M47335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.22358058
M47335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae	-0.1761178
M47335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae	0.34351115
M47335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.203914
M47335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.16820192
M47335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.2528767

M47335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1883574
M47335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2072126
M47335	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.18593087
M47335	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2477265
M47335	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.28102376
M47335	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18152653
M47335	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.18823801
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2291373
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2321209
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2158139
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2352511
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26810837
M47335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2502092
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17782932
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1817856
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2386628
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2123559
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2005231
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20318056
M47335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1954508
M47337	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09678637
M47337	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08821043
M47337	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09565986
M47337	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.13572538
M47337	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08975313
M47337	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0843598
M47337	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10026871
M47337	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08644217
M47337	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08551723
M47337	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10069322
M47337	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09336216
M47346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.171801
M47346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.232123
M47346	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2327557
M47346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4327414
M47346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.472406
M47346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1868194
M47346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18528291
M47346	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29748957
M47346	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2107242
M47346	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2330111
M47346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.20660081
M47346	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.179739
M47346	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19040109
M47346	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2759245
M47347	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1930608
M47347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1952669
M47347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1754153
M47347	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18175353
M47347	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1778701

M47347	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campy	-0.1747242
M47347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chloro	-0.1772252
M47347	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1823091
M47347	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.22906149
M47352	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2716606
M47352	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.203348
M47352	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2110174
M47352	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2022285
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2147141
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4610328
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2038542
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5625139
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3628643
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22719507
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22886937
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37854679
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.232921
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2238607
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.29226577
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3063981
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2108123
M47352	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.50521486
M47352	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.3057115
M47352	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.26204047
M47352	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.18827209
M47352	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2203037
M47352	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.196579
M47352	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2048981
M47352	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.299743
M47352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2036746
M47352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.286703
M47352	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18424309
M47352	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.501427
M47353	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09856464
M47353	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11503391
M47353	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1399497
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09574969
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13855702
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09804764
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0833787
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.09009879
M47353	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.10325944
M47353	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.16443003
M47353	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.15261106
M47353	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0827076
M47353	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08034792
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07973806
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0995022
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09213302
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0987657

M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.0967515
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12292908
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08181276
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09524299
M47353	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19885849
M47353	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	-0.0862833
M47353	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08482818
M47353	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.12640754
M47353	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09887213
M47353	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.084098
M47353	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0929696
M47353	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11147375
M47353	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0814039
M47353	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08781769
M47353	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0873787
M47353	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.11762486
M47353	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.0996071
M47353	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0931438
M47353	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09285582
M47353	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08808131
M47353	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.13538455
M47353	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.09869091
M47353	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	0.08742044
M47353	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.08035917
M47353	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.13021828
M47358	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.287241
M47358	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3407633
M47358	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2990549
M47358	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26275688
M47358	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2754097
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3237817
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3642027
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2627235
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24913678
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2612827
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.28329999
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.32718046
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.3487551
M47358	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.24287736
M47358	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.34965698
M47358	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2960706
M47358	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.29622154
M47358	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2521463
M47358	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3008599
M47358	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.31548936
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27443915
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3366057
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34570543
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28038738
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3069452

M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4300025
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.29740807
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2756551
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3011856
M47358	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.48167138
M47358	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2577727
M47358	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3633804
M47358	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2587704
M47358	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.37806588
M47358	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27651404
M47358	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.3407633
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.251971
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3141455
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2683343
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2746267
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.33071721
M47358	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3288795
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.29431284
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2739715
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2676849
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3334866
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24474466
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27489433
M47358	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2681939
M47358	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5536522
M47359	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2131554
M47359	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18301525
M47359	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2319148
M47359	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1872565
M47359	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2856321
M47359	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1793686
M47359	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1965551
M47359	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1779022
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3032772
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5998664
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3260763
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.35935421
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1909238
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19301209
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2443325
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21176493
M47359	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.4433741
M47359	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3087249
M47359	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.23361616
M47359	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1892837
M47359	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31502304
M47359	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1800537
M47359	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1791375
M47380	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0880347
M47380	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0936273

M47380	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1023283
M47380	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1067923
M47380	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1144458
M47380	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1391499
M47380	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1126289
M47380	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1086221
M47380	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.09055884
M47380	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0839599
M47380	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0790058
M47380	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08675243
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0999945
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1511103
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1385729
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0867053
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10154137
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08970822
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07871794
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08221181
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17931387
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1312487
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.08986
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1056361
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15379599
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.108274
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0835836
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1234766
M47380	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19685623
M47380	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1458354
M47380	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1205388
M47380	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0906124
M47380	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1577257
M47380	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1041445
M47380	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1449323
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0856552
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0845443
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0943346
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0916594
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12176932
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0856552
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.110947
M47380	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1091175
M47380	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.07920344
M47380	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0997208
M47380	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0943903
M47381	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1869189
M47381	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.18821782
M47381	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17814828
M47381	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1676589
M47381	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1990823
M47381	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1686751

M47381	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.21885975
M47381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1637389
M47381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2572664
M47381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1740321
M47381	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18630094
M47381	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1682228
M47381	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1730649
M47381	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1869189
M47381	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1855793
M47381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1961546
M47381	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1858746
M47388	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0815627
M47388	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1568264
M47388	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0931147
M47388	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1212275
M47388	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0806584
M47388	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1179042
M47388	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0984317
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0928332
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1572382
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2024969
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1640095
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13395876
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16073176
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1089929
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1515082
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09491941
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1652685
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0923916
M47388	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22850934
M47388	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1458759
M47388	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2347893
M47388	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15106302
M47388	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08442632
M47388	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0978744
M47388	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07872219
M47388	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19343395
M47388	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1723217
M47391	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1340032
M47391	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0827859
M47391	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1066069
M47391	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1123746
M47391	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1003066
M47391	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0962071
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0892119
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0958071
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0919634
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1161932
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1082492
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11707742

M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11635617
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10352454
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0983643
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0968926
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1257801
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11531288
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.194746
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0869594
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1255121
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1227464
M47391	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18559167
M47391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1160566
M47391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1256577
M47391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1144765
M47391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0991121
M47391	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1822202
M47391	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1633406
M47391	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0988796
M47391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1015072
M47391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1148033
M47391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1287822
M47391	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13941045
M47391	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0869657
M47392	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2523035
M47392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2287192
M47392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1708145
M47392	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2749162
M47392	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1956408
M47392	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.2148069
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2711926
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3333096
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19764755
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1975556
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27659827
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.222468
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2041927
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2190307
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1726332
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1960378
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3757059
M47392	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.43723183
M47392	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3107492
M47392	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3815195
M47392	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1818098
M47392	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1948922
M47392	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1704757
M47431	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0913567
M47431	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1039676
M47431	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0968263
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1113466

M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1049088
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10780213
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.116987
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1063539
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1380064
M47431	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0814533
M47431	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1969791
M47431	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0902382
M47431	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0938206
M47431	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0943342
M47437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11152116
M47437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07967852
M47437	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.07752526
M47437	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10009929
M47437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0911573
M47437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1286264
M47437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08111525
M47437	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0774032
M47437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.0869173
M47437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1027373
M47437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.07539658
M47437	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.14142306
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1267361
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.18745
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2211392
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0999964
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08139174
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18191071
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11075406
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11047653
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0803746
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08351704
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09211654
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12062843
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14362652
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14104947
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10195812
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10397798
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07860934
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08246585
M47437	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21658389
M47437	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08258936
M47437	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13001926
M47437	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.1001505
M47437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0886581
M47437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0867824
M47437	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08249368
M47437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.101838
M47437	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1288201
M47437	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1385076

M47439	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1072495
M47439	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11195609
M47439	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1242164
M47439	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1046473
M47439	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0907171
M47439	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.09009527
M47439	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0859439
M47439	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.0908636
M47439	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2070455
M47439	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2372541
M47439	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0811248
M47439	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07640045
M47439	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09417097
M47439	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0806861
M47439	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1004621
M47439	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1208807
M47439	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0927991
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0792037
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0891643
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0849388
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0792037
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1037208
M47439	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08385168
M47439	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0817948
M47439	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.084139
M47439	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0949234
M47497	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2028532
M47497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2074981
M47497	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.214759
M47497	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.24860928
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3201158
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3546895
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.3345267
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.187989
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3007206
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19647493
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2689871
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2106217
M47497	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.55833533
M47497	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3129742
M47497	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21395677
M47497	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2207733
M47497	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2817977
M47497	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.25019025
M47497	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.48467359
M47545	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0910359
M47545	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0900707
M47545	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0984608
M47545	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0907074
M47545	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1221383

M47545	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1037745
M47545	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0820421
M47545	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1308084
M47545	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1202238
M47545	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1209891
M47545	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.11482693
M47545	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0989737
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09066999
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0938492
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.142094
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0995788
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0958628
M47545	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1338768
M47545	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1099201
M47545	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1099834
M47545	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1556635
M47545	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1007958
M47545	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0976228
M47545	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1271755
M47545	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11415809
M47545	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1122259
M47545	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0802389
M47545	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0841726
M47545	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09300082
M47545	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1032617
M47545	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1201066
M47545	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1002521
M47545	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1063874
M47545	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0945658
M47581	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.092144
M47581	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0892643
M47619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09398015
M47619	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09117833
M47619	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08554942
M47619	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08872715
M47619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2338453
M47619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1432364
M47619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.088656
M47619	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1150278
M47619	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0843221
M47619	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.100409
M47619	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08622208
M47619	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09398015
M47619	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08519546
M47619	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09203653
M47619	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08357123
M47619	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0949526
M47639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.5041718
M47639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.24965435
M47639	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.21857216

M47639	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.41868257
M47639	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2193995
M47639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2297884
M47639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2300447
M47639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2558107
M47639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.22552569
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.6574298
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	0.24308475
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.7518681
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	0.35908746
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	0.30418033
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	0.21574953
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacterium	0.22056376
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.6915773
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonas	-0.3359517
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	0.27803481
M47639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	0.26235714
M47639	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.32093314
M47639	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.3673748
M47639	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.22360261
M47639	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2427613
M47639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.2406457
M47639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.20338646
M47639	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.2378923
M47642	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.108937
M47642	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1006131
M47642	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08197412
M47642	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0816012
M47642	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0838614
M47642	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0996915
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11826873
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1159976
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0939648
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0859647
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1496816
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__	-0.1196065
M47642	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.1135651
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1020786
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__	-0.0978704
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	-0.1020807
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__	-0.1346545
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__	-0.0939301
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__	-0.0860046
M47642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales.f__Turicibacteriales.g__	-0.0860708
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivita	-0.1060753
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.g__	-0.0819294
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	-0.0839462
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	-0.1078989
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	0.1320359
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirae	-0.1215774

M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1083302
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08227255
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1089311
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0934417
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0992979
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.120354
M47642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0944492
M47642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0959252
M47642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1821468
M47642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11501968
M47642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0972395
M47642	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0825357
M47642	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13701657
M47642	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0949533
M47642	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1060379
M47642	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08431127
M47642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0902254
M47642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09001715
M47642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12609275
M47642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1117186
M47642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1230433
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1109641
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0985166
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.12310454
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0822336
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0842064
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11380023
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0867344
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.089777
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0923922
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.148467
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09483315
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0985166
M47642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1076332
M47642	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	-0.1363469
M47642	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1137038
M47643	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2040974
M47643	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2171189
M47643	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27469238
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2507732
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5029497
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7364492
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4386561
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23686363
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.36170375
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3067917
M47643	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3348785
M47643	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2019912
M47643	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3501526
M47643	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.5150976

M47673	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2348225
M47675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21104323
M47675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.2150558
M47685	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	0.09280586
M47685	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0889108
M47685	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.09280586
M47685	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1208057
M47685	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0966813
M47685	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0812732
M47685	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1812766
M47685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.11253747
M47685	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0899512
M47685	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1216696
M47685	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09692892
M47685	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.086349
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0996477
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0950167
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0902262
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1519074
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0922571
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0926563
M47685	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0907109
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0934294
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1089534
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1014635
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1064782
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1202185
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10404808
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11092394
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10220981
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0950294
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0923321
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0898053
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0845415
M47685	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.110137
M47685	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0879576
M47685	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1046091
M47685	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09962028
M47685	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.117829
M47685	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09346963
M47685	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08662264
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10232179
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10459061
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10457687
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10744324
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08714612
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1011344
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08847238
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1071123
M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0964334

M47685	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0908454
M47685	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.10068422
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.087713
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10536563
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10759351
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10324805
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09280586
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0838906
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10275916
M47685	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.087713
M47686	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2674372
M47686	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_f	-0.1917625
M47686	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2117801
M47686	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3611135
M47686	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32910233
M47686	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.1951957
M47686	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2468877
M47686	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2062957
M47686	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2014342
M47686	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3220571
M47686	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1951567
M47686	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2032388
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1905197
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.249792
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2065686
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1910907
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2001819
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2171372
M47686	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2020629
M47686	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1915523
M47687	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0841315
M47687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea.g	-0.0970551
M47687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07834461
M47687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08108648
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1272345
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2109478
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0986463
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13621841
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09682687
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0951945
M47687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.15961264
M47687	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.096533
M47687	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1689367
M47687	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10628694
M47687	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1110752
M47687	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14418877
M47687	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0854662
M47695	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19733575
M47695	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1856295
M47695	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1940608

M47695	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__	0.19733575
M47695	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1859724
M47695	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.3054494
M47695	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2107025
M47695	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2037985
M47695	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.3494215
M47695	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2250439
M47695	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2001931
M47695	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.28389389
M47695	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__	-0.1940646
M47695	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__	-0.2263398
M47695	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae.g__	-0.2107199
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivibrionaceae.g__	-0.2158441
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__	-0.1953263
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae.g__	-0.236902
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriaceae.g__	-0.2359218
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.g__	0.22320769
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.g__	-0.1961201
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.2226428
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.g__	-0.2352145
M47695	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae.g__	-0.2420663
M47695	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2823035
M47695	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2123317
M47695	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.19461835
M47695	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2297268
M47695	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum rubrum group	0.19850709
M47695	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiaceae.g__	-0.2098804
M47695	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiaceae.g__	-0.2131725
M47695	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclaceae.g__	-0.2091388
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f__	-0.1886958
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales.f__	-0.1968171
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__	-0.1872065
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2319484
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2108931
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.256627
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.3027137
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2411947
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.202317
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__	0.19733575
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.26189362
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	-0.1872065
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__	-0.2284589
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.20147839
M47695	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	-0.1852778
M47695	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcus	-0.2127629
M47695	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.315256
M47706	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	0.21222752
M47706	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus	0.20850654
M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2158074
M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococcoides	-0.314379

M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31320864
M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3332392
M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2207404
M47706	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1935376
M47706	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20215283
M47706	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25283465
M47706	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.20938151
M47709	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1642631
M47709	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1986268
M47709	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2042757
M47709	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.19264263
M47709	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1842692
M47709	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1783506
M47709	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1902097
M47709	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1938152
M47709	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2458822
M47709	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1626627
M47709	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.216556
M47709	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19809691
M47709	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2314216
M47709	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18259693
M47709	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1771953
M47709	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1908282
M47709	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2254757
M47715	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09688553
M47715	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0892589
M47715	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0907296
M47715	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.09688553
M47715	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08587517
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0943011
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1033441
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1389869
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825537
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875786
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0836281
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919889
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09371668
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0779705
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08582336
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825537
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0836281
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825537
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0919815
M47715	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0769012
M47715	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1068641
M47715	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1389064
M47715	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.139221
M47715	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.10999
M47715	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0836281
M47715	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0825537

M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0862356
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0951132
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.080337
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10048342
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1508318
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0841528
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0959446
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0825537
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08587517
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08403482
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0893589
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__F	-0.0836281
M47715	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__F	-0.0809106
M47715	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.0836281
M47715	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__F	-0.0870224
M47715	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.08053769
M47715	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0825537
M47715	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.0881288
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1195286
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1128169
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0861056
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0836281
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1037182
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0802775
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0842659
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.086696
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0828127
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0922622
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0954483
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1057385
M47715	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1031224
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0836281
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1245242
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0997956
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0830002
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0873749
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0825709
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1350804
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.091013
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1116759
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0854998
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.088784
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1024863
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1049714
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11658095
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15001921
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0952137
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10293847
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1384972
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0794424

M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0801524
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1276969
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1026903
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.0805728
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1351875
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17210131
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1576146
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0807169
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0954907
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1129871
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1174671
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1190976
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1583877
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1019064
M47715	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20609926
M47715	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1707546
M47715	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1573345
M47715	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.079759
M47715	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1271048
M47715	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1057205
M47715	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.08362814
M47715	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09591239
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0825537
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08362814
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08536856
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08427021
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.09649936
M47715	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0774108
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0917428
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0778353
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0886387
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1058797
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0776011
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0805601
M47715	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0846966
M47715	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.088373
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08362814
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0827759
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.081542
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0994818
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1027311
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1028352
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.097488
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1096259

M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0935117
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.09688553
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0836281
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14040715
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08701634
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0825537
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0994818
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0792803
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0944367
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08517423
M47715	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08362814
M47715	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0833321
M47715	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0825537
M47715	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1333023
M47715	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08362814
M47718	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1771141
M47718	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2462821
M47718	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.17272077
M47718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.2245502
M47718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1762628
M47718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.20126504
M47718	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.18214345
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2264718
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2134421
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21819013
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21195287
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2044313
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2056706
M47718	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.4720868
M47718	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1941114
M47718	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2076412
M47718	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23011058
M47718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17166758
M47718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3713262
M47718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.20469128
M47718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.24540176
M47718	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.22856706
M47718	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2421877
M47787	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1083914
M47787	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0835481
M47787	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846305
M47787	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0856086
M47787	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0811238
M47787	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08566649
M47787	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08442954
M47787	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0801812
M47787	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0868416
M47787	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0946126
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0876778

M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0767754
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0949917
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0873617
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0916934
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0782053
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0801442
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0948505
M47787	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.0902906
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0860401
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.141481
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.083271
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0847493
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1125387
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0938829
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1139474
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1058893
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0759536
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0983972
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0882851
M47787	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1150805
M47787	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.093038
M47787	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0912893
M47787	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0809096
M47787	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0955556
M47787	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0922664
M47787	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1058845
M47787	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.083253
M47787	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0824509
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.095161
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.097277
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0928184
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0961998
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.095161
M47787	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1046043
M47787	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f_	0.07784051
M47787	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1058255
M47791	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.2787274
M47791	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.25939196
M47791	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2857549
M47791	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1876391
M47791	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25089265
M47791	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2037029
M47791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.19490975
M47791	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18773533
M47791	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1830998
M47791	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2576118
M47800	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0890814
M47800	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0995215
M47800	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0927516
M47800	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0936864

M47800	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08234867
M47800	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08303245
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1345709
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2242406
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1569553
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13359384
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08473989
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12218804
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10656892
M47800	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12057919
M47800	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0920416
M47800	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1048477
M47800	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08525146
M47800	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07863093
M47800	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.13415204
M47800	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07712355
M47800	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1405183
M47806	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10363525
M47806	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08975167
M47806	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0782582
M47806	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.08790675
M47806	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0783467
M47806	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08312837
M47806	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08750991
M47806	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.10277105
M47806	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08835606
M47806	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08399978
M47806	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08982168
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09760042
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15603241
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08036809
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08485
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11410408
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07940067
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08369033
M47806	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0761381
M47806	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0784057
M47806	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.0996764
M47806	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.07899136
M47806	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0763481
M47806	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08907593
M47806	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.07793209
M47806	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08032782
M47806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07754457
M47806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09700924
M47806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09911333
M47806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10004062
M47806	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1098731
M47806	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0949152
M47809	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10503742

M47809	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.13186167
M47809	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11111605
M47809	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0971222
M47809	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0865126
M47809	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0906727
M47836	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.19573029
M47836	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18146602
M47836	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2156138
M47836	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1741925
M47836	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1686228
M47836	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1733407
M47836	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2496514
M47836	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1942305
M47836	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1800165
M47898	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19007951
M47898	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__	0.19007951
M47898	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1916072
M47898	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2552294
M47898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1891628
M47898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.3004098
M47898	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1944556
M47898	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35085044
M47898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2937484
M47898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25527745
M47898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1712002
M47898	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2371376
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1803834
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1830987
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2106737
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20162488
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21685552
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.207086
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17762107
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.27209005
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2260321
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21347216
M47898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1897656
M47898	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.17627797
M47898	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2145413
M47898	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18056933
M47898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2120556
M47898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1809713
M47898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.19007951
M47898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1809676
M47905	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2423673
M47905	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2877621
M47905	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2699255
M47905	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1918815
M47905	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.27156798
M47905	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20246868

M47905	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.29284849
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5958862
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.639819
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3392274
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26591012
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18977416
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24561123
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3146482
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2104582
M47905	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34468817
M47905	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20574742
M47905	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2118263
M47905	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2618938
M47905	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2108496
M47905	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3430185
M47905	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2177516
M47905	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19182327
M47905	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20516304
M47905	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.2135505
M47905	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	-0.2024276
M47905	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2785118
M47954	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	0.20565678
M47954	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2163433
M47954	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1996309
M47954	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.20565678
M47954	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f	0.19075877
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1954608
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2219968
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2289345
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2046584
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.199818
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2000954
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1939725
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19257122
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2066128
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2046584
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.199818
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2322934
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2151851
M47954	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2046584
M47954	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.199818
M47954	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2046584
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25516614
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2255276
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2323603
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2046584
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.212114
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.284082
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19075877
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2620087

M47954	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3996095
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19550305
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1906652
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2269706
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.199818
M47954	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2051034
M47954	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.199818
M47954	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.1919535
M47954	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.21185724
M47954	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2046584
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2590778
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2279161
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2389353
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.199818
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2349743
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2260113
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2224169
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1946421
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1881057
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2839846
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2158761
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2101742
M47954	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.2215076
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.199818
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2840527
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20789921
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2215505
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2708207
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.21426027
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2751218
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2816189
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23098408
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2400128
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2736707
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21399911
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1863602
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2079592
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2448516
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.238711
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2101192
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.208596
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2242082
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20976082
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.264928
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2307182
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3288561
M47954	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2850831
M47954	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1974022
M47954	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1859343
M47954	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.214814

M47954	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2753951
M47954	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro:	-0.1913236
M47954	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.19981738
M47954	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.25262359
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	-0.2012802
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	-0.2119436
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	-0.2168434
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.3340356
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.2046584
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.19981738
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.2355188
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.2236439
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__	0.2091714
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.1921206
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.2150418
M47954	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales.f__	-0.2290322
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.39878841
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.23977864
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.27912007
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.2791652
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.36231556
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2531646
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.28765971
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2188666
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2040401
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.3178815
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.22265548
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1945471
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.2586782
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	-0.226979
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales.f__	-0.2059811
M47954	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.30454721
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	0.19981738
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	-0.2335521
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	-0.2279882
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	0.21269099
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.33147983
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2193275
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.31064571
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.3108034
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2334819
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.2235031
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__	-0.1962541

M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2425685
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20565678
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2227362
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.199818
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19640683
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2240933
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2046584
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2279882
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2031748
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2168434
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19573248
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19981738
M47954	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2265281
M47954	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2955847
M47954	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2049092
M47954	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2046584
M47954	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2034032
M47954	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1913236
M47954	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.19981738
M47999	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2135947
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1789376
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17194193
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17069254
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20778404
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1709311
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23770853
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.210196
M47999	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.35388415
M47999	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1640799
M47999	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19180503
M47999	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1861974
M48114	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0987357
M48114	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0917533
M48114	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0769074
M48114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1041526
M48114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07801988
M48114	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08166706
M48114	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1130736
M48114	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1010418
M48114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.11305334
M48114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08074452
M48114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1003192
M48114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08071013
M48114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1565794
M48114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.11541354
M48114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0763678
M48114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1066352
M48114	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07946007
M48114	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0908719
M48114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0888025

M48114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1060635
M48114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0774683
M48114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1185897
M48118	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2196414
M48118	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21370371
M48118	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2142506
M48118	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2570774
M48118	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21197021
M48118	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2165881
M48118	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20363433
M48118	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.393948
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2281426
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.190001
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1991896
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.201766
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2693567
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2446847
M48118	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23031535
M48118	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2008264
M48118	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.24370954
M48118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21229634
M48118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20352133
M48118	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21506831
M48118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21537377
M48118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2750569
M48118	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23678402
M48118	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.3163914
M48118	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2336725
M48141	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1403327
M48141	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.08737969
M48141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0833704
M48141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0793855
M48141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09622516
M48141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.102446
M48141	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08329589
M48141	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1001237
M48141	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1268502
M48141	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0891415
M48149	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08140018
M48149	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09086782
M48149	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0841788
M48149	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1209773
M48149	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.12139851
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0983475
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07793346
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09677503
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0809027
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07939718
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.104754
M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1038219

M48149	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0819397
M48149	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.07737363
M48149	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1061999
M48152	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0770709
M48152	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1181611
M48152	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1433099
M48152	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0837913
M48152	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.079183
M48152	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0824806
M48152	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0828861
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0817726
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1467108
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1522416
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0797882
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2114677
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1508061
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12626752
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19558204
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1127454
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1289496
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13796421
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1557804
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0937372
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0804385
M48152	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25639136
M48152	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.l	-0.1087342
M48152	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.l	-0.0847973
M48152	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.l	-0.1772776
M48152	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11565878
M48152	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.102789
M48152	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1179075
M48152	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0951163
M48152	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0867822
M48152	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.12565
M48152	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21517625
M48152	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0824384
M48152	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1604301
M48153	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0933982
M48153	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1135861
M48153	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1006828
M48153	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0910909
M48153	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08059763
M48153	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09797883
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.120677
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.157492
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1472408
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08680163
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09320201
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14302597
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10361223

M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16475847
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08013609
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1003147
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11195786
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1457513
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0852213
M48153	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19541481
M48153	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0820983
M48153	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0898803
M48153	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1420253
M48153	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08262624
M48153	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08486752
M48153	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09143958
M48153	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.0870626
M48153	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16046483
M48153	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0870626
M48153	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09984678
M48153	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0975508
M48153	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1422722
M48186	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08720693
M48186	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08885484
M48186	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09039323
M48186	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08150539
M48187	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.20352762
M48187	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.17785006
M48187	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21861866
M48187	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23854781
M48187	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2068904
M48187	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2139097
M48187	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.220687
M48187	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.19313483
M48187	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2093535
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.18909733
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.25710661
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22105875
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.21351809
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.23957138
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.23481885
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.21107537
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.20787075
M48187	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.18210261
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.20619408
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2045043
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20942915
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.2247448
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3073685
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1809237
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29121031
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23249662
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29634852

M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27358961
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.24021803
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2058725
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17440453
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2200843
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18008928
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27745103
M48187	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.37993214
M48187	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1976271
M48187	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1987158
M48187	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.2269818
M48187	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23671647
M48187	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.17876608
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21447195
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18008928
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25218937
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24964954
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.19278131
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.34586411
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19322727
M48187	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.19747077
M48187	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21031643
M48187	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.20704622
M48187	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1856006
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.19278131
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.26486646
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.26119023
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25630653
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23830112
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31912038
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2017085
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21987873
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.213612
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25639575
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20901511
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17653174
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18412861
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26486646
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18273448
M48187	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.3171481
M48187	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.21148506
M48187	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	0.17696598
M48187	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.25317518
M48187	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.18561043
M48187	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2916724
M48189	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0875639
M48189	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1458242
M48189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0976597
M48189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0895844
M48189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0903539

M48189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.087341
M48189	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11607409
M48189	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.10316436
M48189	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1238868
M48189	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08737092
M48189	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1047608
M48191	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2081954
M48191	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.17825587
M48191	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2180406
M48191	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1983334
M48191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.3389432
M48191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4524879
M48191	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.31233
M48191	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.18965703
M48191	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1845837
M48195	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0829176
M48195	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.0972582
M48195	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0795241
M48195	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.086187
M48195	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	0.08896885
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1522896
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0936069
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10203953
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12082693
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09010584
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1758233
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0917346
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15445821
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1073813
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08209055
M48195	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18882235
M48195	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1752052
M48195	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaer	-0.1003122
M48195	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08618329
M48195	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17435044
M48195	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1137513
M48252	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.27702704
M48252	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1902645
M48252	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.2264632
M48252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2170982
M48252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2421828
M48252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.19890377
M48252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacte	-0.2392469
M48252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.2055344
M48252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2396745
M48252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococci	-0.2094576
M48252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19202447
M48252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.190473
M48252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26195667
M48252	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.25252661

M48252	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2919412
M48252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19783222
M48252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2330431
M48252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1964787
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2045266
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2108343
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2606625
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1988166
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2003107
M48252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2108343
M48252	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.19866784
M48255	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.10571265
M48255	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1394835
M48255	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0859666
M48255	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.09103115
M48255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.10022103
M48255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.1017365
M48255	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.18808511
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0787642
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0814097
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1194544
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1535242
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10767075
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08923835
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10491975
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11104518
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11410772
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12638282
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1217967
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18020961
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09216975
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12741118
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07748441
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08295012
M48255	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28466784
M48255	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1194088
M48255	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0757954
M48255	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.083088
M48255	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0811247
M48255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09329188
M48255	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11981056
M48255	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.084282
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10168444
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1187979
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07922288
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10573354
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08838752
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08628183
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.126554
M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26229665

M48255	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.07807673
M48255	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicro	-0.0991607
M48258	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3111683
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2368962
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.43781036
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.52120078
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2600721
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3620997
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2410904
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.40192858
M48258	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25502893
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.6636602
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.24974165
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3633589
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2854398
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.36122745
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2443497
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.4752647
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.5860657
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.55918737
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.40273185
M48258	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.3105128
M48258	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.51262142
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.55999161
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.3860671
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2512076
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.29200112
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.73632417
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.2837825
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.5070978
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.5903933
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.25974025
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococci	0.47263224
M48258	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.477049
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.610348
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.5324555
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.3000022
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.677955
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.6807478
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.48129177
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2458285
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2872717
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.3445741
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.3683905
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.30125823
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.3624197
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.46190034
M48258	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	-0.2881089
M48258	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales	0.23117014
M48258	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichales	-0.3002832

M48258	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.39854648
M48258	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.7943437
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2567303
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.71075227
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3067465
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4573159
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.44357832
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2659802
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.27995008
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2600721
M48258	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.43325231
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4017469
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.384342
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4234125
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4901228
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.7582121
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.479567
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.70703774
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.8044855
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3235802
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.26938398
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.5920061
M48258	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.34372556
M48258	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.5520887
M48258	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3911038
M48258	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.5187352
M48258	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.255739
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.44234285
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3235802
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5855949
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5034342
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3660261
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2406438
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2808715
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3799697
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.7685081
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3050673
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.407525
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.34874776
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.28304075
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4839122
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.5023142
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3772057
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3955066
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.4614258
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.50184398
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.6638472
M48258	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2782574
M48258	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.51977299
M48258	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3483583

M48258	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.3486681
M48340	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1131652
M48340	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.11709646
M48340	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1504842
M48340	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0932712
M48340	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0901925
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1040136
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1486977
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14069311
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10801295
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1209351
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1430187
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.15173644
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1321994
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.087635
M48340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19977542
M48340	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1153876
M48340	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1066128
M48340	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08640515
M48340	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0888179
M48340	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10953766
M48340	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09170626
M48340	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20182362
M48340	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1383777
M48428	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0954369
M48428	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08022533
M48428	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1321743
M48428	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1666493
M48428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1136112
M48428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0876207
M48428	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09175291
M48428	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09383959
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1231372
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.110267
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2481738
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2021773
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15967845
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0833266
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1764983
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11938969
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1698214
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0797337
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12017072
M48428	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26887095
M48428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0896351
M48428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0737845
M48428	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0789382
M48428	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08260279
M48428	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0761779
M48428	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1116916

M48428	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0827446
M48428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0879672
M48428	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21263019
M48428	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1491164
M48433	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0912397
M48433	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.117238
M48433	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0989886
M48433	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1213266
M48433	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09002857
M48433	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1304975
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1134306
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07937837
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09822021
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08897474
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0908438
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0847258
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08428652
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12912066
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08067916
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0942766
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1367709
M48433	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12091621
M48433	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0904478
M48433	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0985272
M48433	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0893895
M48433	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08207366
M48433	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09132909
M48433	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0878221
M48434	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11109563
M48434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08507568
M48434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.1113748
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.12913329
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0994657
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.10109661
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11267456
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09617071
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09295945
M48434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.112099
M48434	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.09537954
M48455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10456585
M48455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0984431
M48455	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.103318
M48455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1351896
M48455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1076319
M48455	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.117431
M48455	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09843782
M48455	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09652948
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0996414
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11172266
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.09094177

M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17108624
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1392603
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08860819
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13270011
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08745096
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09480641
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09789462
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13197192
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11168577
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14993464
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.15587485
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.0885969
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10609063
M48455	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09957563
M48455	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09295406
M48455	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09490056
M48455	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0957607
M48455	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0950168
M48455	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09727726
M48455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1394043
M48455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.14887492
M48455	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.09382193
M48455	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1028574
M48455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09551761
M48455	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.10878285
M48569	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2331648
M48569	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19219117
M48569	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2001651
M48660	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19905225
M48660	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2172897
M48660	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2688961
M48660	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22906526
M48660	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22332672
M48660	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1969289
M48660	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.27178804
M48660	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.26206237
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2593953
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18503262
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2096067
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1986111
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.38461103
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21716461
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29928238
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30577833
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1912469
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23231106
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31542637
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21109329
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.26913747
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.38597987

M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26155549
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20068131
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.39629999
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.28490054
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20118901
M48660	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21716381
M48660	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21706516
M48660	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2503032
M48660	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.26203455
M48660	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.18801198
M48660	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23267879
M48660	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29486487
M48660	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23864708
M48660	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2200194
M48660	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22546894
M48660	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2446476
M48660	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20631321
M48660	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23814347
M48660	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21384552
M48660	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3060305
M48660	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20689264
M48660	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.20359747
M48660	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2259563
M48679	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3293175
M48679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2149561
M48679	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.20593265
M48679	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2742861
M48679	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2319481
M48679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2136102
M48679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1830416
M48679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.21990861
M48679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.2082633
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5340385
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5263346
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2842441
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2175126
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2047655
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22223514
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20186687
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34451611
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21608019
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.264511
M48679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.66157976
M48679	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2451581
M48679	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2719473
M48679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20080817
M48679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2093529
M48679	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3349574
M48679	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2704295
M48679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.20089486

M48679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2783029
M48679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.41523284
M48679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19690938
M48679	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3284473
M48757	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17930286
M48757	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.18748206
M48757	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.18158255
M48757	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1734562
M48773	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18886979
M48773	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2158991
M48773	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.20564353
M48773	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.44203298
M48773	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.179239
M48773	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.2208556
M48773	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2346333
M48773	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.28798478
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.3473846
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.204613
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2536523
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19725989
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1697608
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1933688
M48773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.22732828
M48773	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.26821941
M48773	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.27206199
M48773	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1850599
M48773	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.2103846
M48773	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.17959025
M48773	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2141894
M48774	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22834067
M48774	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23412609
M48774	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.24187313
M48774	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.2103145
M48774	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.23262568
M48774	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.22249051
M48774	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococ	0.21042794
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.693391
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococ	-0.5284848
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32211405
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25987451
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.4153385
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.2261415
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.23013385
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20570827
M48774	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20604847
M48774	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.32869819
M48774	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.31396146
M48774	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.3464066
M48774	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomon	0.19644664
M48774	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3543211

M48853	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1072992
M48853	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0920209
M48853	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1531376
M48853	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.12505543
M48853	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0902257
M48853	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1057281
M48853	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1265494
M48853	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1129565
M48853	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1145839
M48853	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1033635
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0955981
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1152841
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1149973
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1044149
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11473788
M48853	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10850065
M48853	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1032317
M48853	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0975516
M48853	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1387086
M48853	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1143534
M48853	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1111255
M48853	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0860997
M48853	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0940646
M48853	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.155494
M48853	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0875289
M48857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08468646
M48857	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1254734
M48857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0865871
M48857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08786284
M48857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09517679
M48857	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.09046578
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1265395
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0854506
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1463157
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1212355
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08857603
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11113572
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19046537
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09976967
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21284659
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0842918
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1150137
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2103959
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1461047
M48857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28444052
M48857	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1708406
M48857	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.155054
M48857	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1019977
M48857	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09933302
M48857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09310036

M48857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0852669
M48857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10681776
M48857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0828326
M48857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08556139
M48857	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09899082
M48857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0831856
M48857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1005665
M48857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20303402
M48857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0881664
M48857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08423536
M48857	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1335315
M48885	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1363132
M48885	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.1096591
M48885	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0891538
M48885	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0990025
M48885	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08350664
M48885	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11794478
M48885	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11543911
M48885	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0845055
M48885	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1057394
M48889	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1785351
M48889	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1849498
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.26563375
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.18605041
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1822469
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2735596
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1925744
M48889	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.230896
M48889	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1835996
M48889	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1849953
M48889	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1936793
M48889	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1810025
M48889	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.20125399
M48889	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2582644
M48889	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23145532
M48889	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.1923503
M48889	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.18810131
M48889	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.200039
M48889	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21598555
M48889	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1866789
M48889	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.3036298
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1869839
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2047878
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2147129
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18595208
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1869839
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.21648609
M48889	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1854072
M48889	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.22610503
M48889	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1892399

M48892	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0840573
M48892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08499206
M48892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08322573
M48892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12722414
M48892	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08374845
M48892	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10023768
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.09019308
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08118947
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09130695
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08498591
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08018849
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09391313
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08723889
M48892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08103867
M48973	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2422526
M48973	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2461318
M48973	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.200831
M48973	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2035498
M48973	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20380142
M48973	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2769597
M48973	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23023324
M48973	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19480647
M48973	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.19448979
M48973	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2125591
M48990	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2668392
M48990	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2087214
M48990	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1800974
M48990	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1757649
M48990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2063328
M48990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2003531
M48990	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2461523
M48990	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.20443218
M48990	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2759234
M48990	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2727122
M48990	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20280798
M48990	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.173203
M48994	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18880577
M48994	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1768082
M48994	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2032231
M48994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.166758
M48994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17650425
M48994	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.16811193
M48994	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1718993
M48994	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2495701
M48994	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2028054
M48994	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucon	-0.2564097
M49008	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0806125
M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0916059
M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0857113
M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1148506

M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.101397
M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.080265
M49008	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0861829
M49008	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0842876
M49008	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1265867
M49008	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09008435
M49008	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0983366
M49228	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0969813
M49228	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790442
M49228	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790442
M49228	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790442
M49228	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08436814
M49228	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.07650944
M49228	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0790442
M49228	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0822374
M49228	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1004218
M49228	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0881419
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.081658
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0790442
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0799459
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0896211
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1054265
M49228	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0790442
M49228	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0802064
M49228	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1155231
M49228	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0796373
M49228	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0882031
M49228	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0801731
M49228	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0840869
M49228	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0885395
M49228	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09016943
M49228	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08636053
M49228	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08991366
M49228	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0790442
M49228	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08858823
M49228	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0790442
M49228	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0812963
M49228	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0790442
M49228	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0790442
M49298	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1150319
M49298	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10902135
M49298	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08475743
M49298	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0860956
M49298	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0965333
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08739296
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11426084
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1249491
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09086139
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10218437
M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08024093

M49298	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1398233
M49298	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0995213
M49298	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1048967
M49298	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.09540036
M49298	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0802825
M49298	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.115362
M49298	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07876858
M49298	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1237921
M49298	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.08970136
M49298	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08617525
M49311	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2685193
M49311	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.249243
M49311	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2524083
M49311	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.2166058
M49311	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.3249595
M49311	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.23711905
M49311	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21704215
M49311	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.27017137
M49311	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25610435
M49311	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2232161
M49311	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2408847
M49311	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23345364
M49311	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24946439
M49311	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21997519
M49311	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23014015
M49311	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2391158
M49316	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2372137
M49316	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.21170665
M49316	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.22220086
M49316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2809968
M49316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4752347
M49316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2609695
M49316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20248394
M49316	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.34914398
M49316	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.25443811
M49316	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.2084343
M49316	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22376858
M49316	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31662649
M49316	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26318734
M49316	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2297185
M49329	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0970845
M49329	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0860807
M49329	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0918647
M49329	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1050536
M49329	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.12605794
M49329	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08809097
M49329	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0873512
M49329	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1143542
M49329	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.20696964
M49330	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1889501

M49330	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1889501
M49330	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18994351
M49330	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3700291
M49330	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.19550064
M49330	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3196627
M49330	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.32490862
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.24502932
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18650792
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.224997
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.21852712
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2803125
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.19589258
M49330	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.19979899
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2027875
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.28293086
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.328218
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21742661
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3166688
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1979684
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2879096
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22676423
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23311307
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2690454
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21778813
M49330	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2038916
M49330	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1913113
M49330	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.22613714
M49330	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3447942
M49330	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.38120489
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4350421
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.223468
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.184874
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1848337
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3916787
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.289132
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27364212
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3065677
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23089569
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24478204
M49330	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.18848289
M49330	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1997256
M49330	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.1816728
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1937488
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2039804
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31379171
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2128283
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19452119
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27130794
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3576036
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24381018

M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1889501
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.227364
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2105243
M49330	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.27686587
M49335	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.23757571
M49335	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	0.32419185
M49335	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.23757571
M49335	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2286198
M49335	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2105739
M49335	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.3050217
M49335	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2027738
M49335	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23679511
M49335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.25924679
M49335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2830438
M49335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2239376
M49335	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.2143115
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2696594
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34333541
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24398193
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2256373
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20182746
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21918715
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.258924
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19940495
M49335	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2704431
M49335	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2165557
M49335	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.40621447
M49335	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.21809872
M49335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2495494
M49335	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2085115
M49335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.27747406
M49335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32196946
M49335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.23757571
M49335	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2580741
M49335	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.24282337
M49342	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1116178
M49342	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.12498954
M49342	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.08267888
M49342	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0865963
M49342	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0836733
M49342	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09138601
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09250361
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.1193623
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11236406
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08897849
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09580382
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08291263
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10178597
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.12800076
M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0826919

M49342	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0827032
M49342	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12236349
M49342	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0889452
M49342	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0853002
M49342	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08776109
M49342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0953256
M49342	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0860243
M49342	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.13518083
M49383	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.07803027
M49383	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.10120462
M49383	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09787175
M49383	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07831189
M49383	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0887517
M49383	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.12257619
M49383	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.09261
M49383	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08655293
M49383	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1167969
M49383	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10170216
M49457	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10969932
M49457	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11576133
M49457	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08833003
M49457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09117608
M49457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08377763
M49457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14558602
M49457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0908634
M49457	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1117486
M49457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.11967352
M49457	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1136356
M49457	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.09666601
M49457	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1102637
M49457	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09135486
M49457	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1037426
M49459	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1197887
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1010322
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0976643
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1001166
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846502
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1074102
M49459	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0903029
M49459	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1340747
M49459	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1226721
M49459	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1245
M49459	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0987363
M49459	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0849893
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1479722
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0955899
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1179183
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0906329
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1126953
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0956803

M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0808166
M49459	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0837754
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.11604
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0858809
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1632981
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1603417
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1027976
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0962941
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0914209
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12385529
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1341871
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1036001
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1075127
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0827818
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1324905
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0984859
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11099669
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1576225
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0837316
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08176253
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.086815
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1447959
M49459	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16188808
M49459	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1081406
M49459	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.091997
M49459	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1475045
M49459	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1222058
M49459	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1349713
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1182578
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1422283
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0855433
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1082812
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1199435
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0995807
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1111494
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1061674
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1079521
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16694881
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1182578
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0906721
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0955263
M49459	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1272139
M49459	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08826106
M49459	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1136782
M49459	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0896714
M49460	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.175956
M49460	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.170251
M49460	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20926867
M49460	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19081243
M49460	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.16780721

M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.3083229
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3383551
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1925591
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27762322
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2440927
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19014766
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16756079
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.38419512
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20889898
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22226365
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21727272
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2232746
M49460	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30195449
M49460	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1856566
M49460	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1772649
M49460	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18875784
M49460	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21437454
M49460	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.25478167
M49460	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1739159
M49460	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17715959
M49460	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3194973
M49460	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1999002
M49460	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2326799
M49461	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.1069631
M49461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1065472
M49461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1462763
M49461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1234192
M49461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.164061
M49461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0920709
M49461	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1016063
M49461	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0959017
M49461	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0958642
M49461	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1403282
M49461	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0877587
M49461	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.085962
M49461	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0842708
M49461	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1236218
M49461	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1030903
M49463	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1618038
M49463	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0948662
M49463	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0869155
M49463	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0905195
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1232727
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1075089
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1354773
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1686219
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1165093
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11114151
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18489721
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1170133

M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12773448
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.156653
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1178967
M49463	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17084888
M49463	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1292502
M49463	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0877269
M49463	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1475302
M49463	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0875471
M49463	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0894663
M49463	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10124564
M49463	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1395418
M49476	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09835455
M49476	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.078669
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09113845
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08072393
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08923648
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09672307
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09672307
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09063791
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0776889
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08698629
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837989
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09672307
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790204
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08895613
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08072393
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0776889
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0891178
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0863474
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0891648
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08072393
M49476	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09703674
M49476	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09801899
M49476	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.11725699
M49476	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.0776889
M49476	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.08072393
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08506265
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10448958
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.082941
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.0774736
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08753378
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09018188
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08072393
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10569287
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.078669
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.0776889
M49476	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.09330444
M49476	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.0776889
M49476	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__f	0.07997801
M49476	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.0781859

M49476	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.08072393
M49476	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09491893
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.09476094
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.09341025
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.0776889
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09672307
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.08853723
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.10341772
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.10251011
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.08512023
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.09215313
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08928713
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.07961857
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.10029259
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09374515
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08116533
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.10529336
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.10583397
M49476	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07636279
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.10389389
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.0776889
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.08205443
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	0.08968025
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09980574
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0839042
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1109093
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10852325
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10303515
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10079945
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07774322
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.13361088
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.10185322
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.08610356
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.10150945
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09672307
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09471361
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10788213
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08857113
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.09581006
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11005581
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13371643
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08655645
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08087472
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.0814775
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.0788356
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07809684
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09682724
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08971218
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08388639
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09844479

M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10867044
M49476	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacter	0.09672307
M49476	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08044388
M49476	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.08892663
M49476	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.10024349
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.09640902
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.08796023
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09046915
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08072393
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10135219
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10722604
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08359185
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.09569257
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08936721
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08887287
M49476	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09009229
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884492
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1006787
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09844479
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0781485
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0781738
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08537432
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.10366138
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08135746
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.0949732
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08108301
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.12203371
M49476	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.09672307
M49476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0779263
M49476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.11557128
M49476	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.08806682
M49476	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1099783
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08867729
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.10366138
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.09672307
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08333891
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09217121
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09859696
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09401339
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08681748

M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0776889
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09683747
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.093478
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09167637
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08072393
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.0807562
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.10389291
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.10268285
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08140052
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08796023
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0790955
M49476	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0776889
M49476	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.09672307
M49476	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.08788558
M49476	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.09672307
M49476	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.09566506
M49476	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07732822
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.09752852
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.10247972
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.08072393
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09631753
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09470391
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.08892663
M49476	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0776889
M49513	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1160555
M49513	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1431222
M49513	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0833074
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0913523
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1433464
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1052013
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09174422
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0959717
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1122238
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0907325
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10573714
M49513	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13227707
M49513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1385732
M49513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.094335
M49513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1252059
M49513	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1441135
M49513	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09868895
M49513	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12995618
M49515	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10979612
M49515	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09425321
M49515	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0851832
M49515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcae	-0.0940034
M49515	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09605512
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1225657
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1736013
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1029047

M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08483023
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1151279
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08772888
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1232327
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09196083
M49515	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14326905
M49515	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1094398
M49515	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08380452
M49515	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f_	0.08721056
M49515	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1003946
M49529	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.0879765
M49529	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08834674
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.135329
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1447679
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2063755
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1565818
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08698351
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08931462
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1228399
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0750351
M49529	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1355529
M49529	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f_	0.13422963
M49529	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08347876
M49529	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.077194
M49529	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0989351
M49529	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.084605
M49529	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07347106
M49529	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1251651
M49532	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08332833
M49532	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08428582
M49532	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.09673915
M49532	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09395234
M49532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.09695571
M49532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11016871
M49532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08180668
M49532	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1015965
M49532	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.113327
M49532	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f_	-0.114461
M49534	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0949546
M49534	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919703
M49534	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__(	-0.0858268
M49534	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g_	-0.107046
M49534	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0885383
M49534	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0856334
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0874976
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09967562
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0983446
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0956354
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0887964
M49534	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1106262

M49534	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.11469
M49534	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.0838456
M49534	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0968351
M49534	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10960432
M49534	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1066494
M49534	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1018753
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0850356
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0925399
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0844002
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0913149
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0904526
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08351432
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0850356
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0990667
M49534	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1103741
M49534	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09740095
M49534	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1116369
M49539	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10301967
M49539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1117953
M49539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10806185
M49539	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07449601
M49539	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07668934
M49539	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.0832335
M49539	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07351228
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.0778536
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2227684
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2576504
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0961695
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16632318
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07316938
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14321678
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07477586
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1225565
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1001308
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1147942
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.07140737
M49539	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14410633
M49539	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1203956
M49539	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08105089
M49539	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08479303
M49539	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07308307
M49539	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1161814
M49539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0835526
M49539	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.15523655
M49539	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1195234
M49542	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1790379
M49542	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1082212
M49542	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08693901
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0938229
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0897797

M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0869457
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10283248
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07877972
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0898722
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1177414
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08691608
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.142008
M49542	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11162746
M49542	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08610177
M49542	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1290807
M49542	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1285563
M49542	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.141375
M49542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0884202
M49542	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10845831
M49542	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1095058
M49588	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1913297
M49588	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2071384
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3419886
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2907488
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1699904
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2919912
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1755899
M49588	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24168186
M49588	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1852792
M49588	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16649621
M49588	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.16602031
M49588	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.169705
M49588	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.16521944
M49588	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1693588
M49588	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1770101
M49588	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21901806
M49588	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2458735
M49626	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.2770813
M49626	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2763769
M49626	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococceae	-0.2899302
M49626	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.20912474
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3429739
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2113492
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37037384
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.23102685
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2088287
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.25453178
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.28106784
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.27288114
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2996398
M49626	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27765733
M49626	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2705816
M49626	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21508923
M49626	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.257682
M49626	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.221063

M49626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2606926
M49626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2417006
M49626	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.24765968
M49626	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.28867349
M49626	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.24398887
M49626	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3035192
M49627	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1474612
M49627	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0977748
M49627	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0896527
M49627	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1079931
M49627	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0914598
M49627	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0946987
M49627	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09676695
M49627	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11828995
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0898486
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0780728
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1518229
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2193562
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10961632
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09304245
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16998517
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1078096
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.09
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13791613
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1309112
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0787111
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08562445
M49627	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17407573
M49627	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0974814
M49627	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0796445
M49627	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1745795
M49627	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0993875
M49627	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0883592
M49627	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12806739
M49630	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2958147
M49630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2740999
M49630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2134249
M49630	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1776822
M49630	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.233147
M49630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1830115
M49630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1825726
M49630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.22477093
M49630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.23799224
M49630	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.18847244
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.274505
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2655739
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2336459
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.199791
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18384688
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17952233

M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28915424
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22990325
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23133921
M49630	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.42498788
M49630	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1865384
M49630	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1966567
M49630	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17608904
M49630	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19102231
M49630	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3451066
M49630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17398949
M49630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20059394
M49630	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32408936
M49630	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2559165
M49631	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2222779
M49631	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18012013
M49631	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2319026
M49631	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21525536
M49631	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25240919
M49631	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2080659
M49631	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28817438
M49632	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4072786
M49632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2387396
M49632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2409639
M49632	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2096668
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2178106
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3211378
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3936096
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2553106
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1837592
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1888062
M49632	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17464451
M49632	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3127459
M49632	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3302939
M49634	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0757191
M49634	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10280775
M49634	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.0829447
M49634	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10670438
M49634	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.1174025
M49634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0777783
M49634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0870546
M49634	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0838202
M49634	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0765802
M49634	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0969662
M49634	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1140757
M49634	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09976285
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.248315
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2484303
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0949751
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18881303
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08910563

M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09662659
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07649492
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09645254
M49634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12607181
M49634	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1016135
M49634	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.07993069
M49634	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09676546
M49634	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobact	0.09206642
M49634	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0802517
M49634	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.08991053
M49634	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1033113
M49634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonad	0.13392106
M49634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonad	-0.0855647
M49635	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteri	0.1093891
M49635	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococ	-0.1004644
M49635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12648693
M49635	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13461704
M49635	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10899511
M49635	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09547589
M49635	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09720432
M49635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacter	0.11365677
M49635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurell	0.09597247
M49635	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurell	0.13783173
M49636	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanospir	-0.0786031
M49636	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1022597
M49636	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08316103
M49636	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteri	0.10637694
M49636	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.09024031
M49636	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1305301
M49636	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07487273
M49636	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.0854622
M49636	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.0824761
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1487777
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1581718
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10936215
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16311922
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12656456
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11840244
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Rumin	0.09908507
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08334864
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07944406
M49636	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09491499
M49636	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.07940446
M49636	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0813108
M49636	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0773795
M49636	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.0932102
M49636	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.0943165
M49636	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.1507929
M49636	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotom	-0.0858994
M49636	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.0774192

M49636	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07913319
M49636	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0999087
M49636	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.10909649
M49645	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0823415
M49645	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0765078
M49645	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1307576
M49645	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0804626
M49645	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.08950466
M49645	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococ	0.0768154
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenell	-0.1520024
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.1613188
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.2048936
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1120535
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.0868297
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.13980992
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.08749927
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.19501627
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.07843802
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.25528327
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1391398
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.18259977
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1659484
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.0911722
M49645	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.2764725
M49645	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1901178
M49645	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09294942
M49645	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1502325
M49645	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08051788
M49645	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.0808526
M49645	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.1246896
M49645	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.21872791
M49645	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.07774928
M49645	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.1777827
M49646	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	0.08157565
M49646	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.078614
M49646	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.13814718
M49646	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08769065
M49646	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.10207989
M49646	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08803383
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenell	0.07626376
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	0.14343358
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	0.16285139
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	-0.0991057
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcus	0.08570302
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.09357472
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.15113524
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierella	0.08408114
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.08799269
M49646	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	-0.0824325
M49646	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.09137184

M49646	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.07898308
M49646	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09795743
M49646	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	0.14992797
M49647	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.10524754
M49647	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08263687
M49647	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10307386
M49647	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10529913
M49647	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.091552
M49647	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0790625
M49647	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.0969909
M49647	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.09834999
M49650	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2143111
M49650	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2683834
M49650	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2653728
M49650	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22279414
M49650	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3041297
M49650	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.236632
M49650	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2154994
M49650	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21311966
M49650	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2384184
M49650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.26013999
M49650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.22113333
M49650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.243049
M49650	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2845645
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.290068
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2221583
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3036927
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2497314
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2632998
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2603106
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2163214
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2390433
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2309625
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2378369
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2451683
M49650	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2964722
M49650	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2222032
M49650	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2276861
M49650	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2647009
M49650	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2476322
M49650	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2253521
M49650	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23165772
M49650	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2382594
M49650	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2278248
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2664581
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2451683
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2563874
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.221739
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2225633
M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2721002

M49650	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3794147
M49650	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3171472
M49650	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2667244
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2721002
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2418563
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.268044
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2849644
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.230103
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3107117
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2205183
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2197855
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2312087
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2418866
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2367516
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2218906
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2359782
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2276239
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2425523
M49650	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2253521
M49650	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2323558
M49650	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.2387912
M49650	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2476322
M49651	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1251929
M49651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089105
M49651	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0865997
M49651	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.07733878
M49651	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0970747
M49651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0804161
M49651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1093579
M49651	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0905866
M49651	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0831722
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0985383
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0982566
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1028403
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0975476
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0842523
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.079457
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0801371
M49651	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.08074325
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0858728
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0795854
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0818009
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0992241
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0804356
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0889834
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0827937
M49651	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0830865
M49651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0976616
M49651	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1198158
M49651	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08308137

M49651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0869908
M49651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0916004
M49651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1042578
M49651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.113801
M49651	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0897926
M49651	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0848633
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0981242
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0829495
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0793629
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0897091
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0906642
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0848398
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1002265
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1032486
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0987569
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0827618
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0846498
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0981242
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1223494
M49651	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0891176
M49663	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.14866949
M49663	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08710032
M49663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12045203
M49663	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11261203
M49663	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0772859
M49663	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08151424
M49663	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08829732
M49663	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08156497
M49665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25283165
M49665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1801289
M49665	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2073206
M49665	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.18191698
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27588234
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17648335
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21386308
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20464189
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21942163
M49665	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2090738
M49665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.1939085
M49665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.18521564
M49665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.28230695
M49665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.2128315
M49665	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17540766
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.27499655
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17559064
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25131804
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30397682
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1813981
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18880587
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37248342

M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2235632
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20763156
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25590644
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19457603
M49665	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1773081
M49665	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39116813
M49665	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19735423
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1865258
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20238431
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31177477
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.37551814
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.18900047
M49665	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.23293551
M49665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21139406
M49665	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18605617
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17344695
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.18900047
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.18429015
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.2654495
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.44581954
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16995975
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.19171825
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20985086
M49665	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.25854914
M49665	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2342627
M49665	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2591716
M49675	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11632401
M49675	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.07977015
M49675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0982102
M49675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13306028
M49675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0798446
M49675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10073807
M49675	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0953748
M49675	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09325756
M49675	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0860058
M49675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1059664
M49675	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09769737
M49675	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08721205
M49679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26226968
M49679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23755136
M49679	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32945214
M49679	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24421235
M49679	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.19137293
M49679	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22570131
M49679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.21816006
M49679	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19213931
M49679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.23489277
M49679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19111106
M49679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18796259
M49679	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.208966

M49679	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1958688
M49679	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__	0.21887626
M49679	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	0.19542877
M49679	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__	0.26226968
M49679	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	0.25052862
M49679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	0.21404525
M49679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.19669693
M49679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.24011909
M49679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__	0.23858963
M49679	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	0.19423774
M49681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.10181482
M49681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08654682
M49681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09697701
M49681	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08603093
M49681	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	0.1175928
M49681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.12996814
M49681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.10899134
M49681	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.13114069
M49681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillales.f__	0.1129988
M49681	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillales.f__	0.0816135
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales.f__	0.08543328
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales.f__	0.09139567
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	0.10728901
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	0.08130953
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococciales.f__	0.08423462
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales.f__	0.08723271
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales.f__	0.11653451
M49681	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales.f__	-0.1225452
M49681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.0927691
M49681	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	0.09746256
M49681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.09273079
M49681	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.1029393
M49681	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.0852576
M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	0.08920122
M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales.f__	0.10277305
M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.085606
M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.08763155
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M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	0.08187576
M49681	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.1697983
M49834	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.084307
M49834	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.101635
M49834	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	0.11283603
M49834	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1505507
M49834	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0904309
M49834	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.0818314
M49834	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__	-0.0990705
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1356473
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.10101235
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.12896119

M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10606279
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1422918
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1446756
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08701563
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0821602
M49834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13572519
M49834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0863956
M49834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0826957
M49834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1081881
M49834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1477784
M49834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0882959
M49834	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08815094
M49834	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10146869
M49834	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1004189
M49834	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13203389
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2243531
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22733266
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22733266
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22733266
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2564651
M49883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2743663
M49883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22733266
M49883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2738208
M49883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.3034248
M49883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.2844636
M49883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.234152
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.23179954
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22523742
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.29480908
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22733266
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25679137
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2332021
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.27890405
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22432476
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.23792179
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21907705
M49883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	0.22733266
M49883	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.2415462
M49883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23595699
M49883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.22356677
M49883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22161526
M49883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22733266
M49883	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2182821
M49883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.22733266
M49883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.21345419
M49883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2885111
M49883	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.22733266
M49883	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.22733266
M49883	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.24513704
M52052	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	-0.0975426

M52052	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.0918807
M52052	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08840734
M52052	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0926828
M52052	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09837947
M52052	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09022048
M52052	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09263021
M52052	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11102889
M52052	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1209044
M52052	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1019108
M52052	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09974246
M52052	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.08910231
M52052	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1327317
M52056	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0798218
M52056	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0850577
M52056	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0830612
M52056	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.098037
M52056	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09523996
M52056	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11005725
M52056	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1479625
M52056	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0936999
M52056	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0810349
M52056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.103307
M52056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0861851
M52056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0801883
M52056	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1132501
M52056	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0859794
M52056	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0944506
M52056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0797145
M52056	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0915603
M52056	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1358228
M52106	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08557162
M52106	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1076802
M52106	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09077432
M52106	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08973697
M52106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1083234
M52106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1127806
M52106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10033038
M52106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1000929
M52106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13552113
M52106	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1449986
M52106	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.085511
M52106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13174796
M52206	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.122602
M52206	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1073501
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1262113
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0972918
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0868703
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875058
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1265884
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1267098

M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1833453
M52206	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08121239
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1551928
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0866469
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1667098
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1494691
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.1203039
M52206	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.144835
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1669615
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0812234
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0961324
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1426963
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0992115
M52206	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08936199
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0821624
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1586424
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1727321
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1322499
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1005395
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13963308
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10866694
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1578225
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1163315
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0946726
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09628043
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1240914
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1266206
M52206	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17368747
M52206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0819153
M52206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1261877
M52206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.099986
M52206	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1390288
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0848391
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0814081
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1133544
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1954521
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.090351
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1109371
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0883957
M52206	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.084297
M52206	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.086138
M52206	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1255329
M52206	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0893741
M52206	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1091161
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0942726
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1487567
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0947801
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1480937
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0928978
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1761741

M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1008658
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0799472
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1194064
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15067658
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0942726
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0875112
M52206	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1047116
M52206	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0867596
M52206	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1144155
M52233	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.0865861
M52233	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1128009
M52233	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12926324
M52233	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09130418
M52233	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1141806
M52233	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0869955
M52233	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0947081
M52233	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0941813
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubactr	0.12656109
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0894056
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1394382
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0899704
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1181425
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0839217
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0911107
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1116904
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0977132
M52233	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1469259
M52233	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08769308
M52233	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08689012
M52233	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08840986
M52233	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0856704
M52233	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1112397
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.092953
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0863259
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0925991
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0862624
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1117615
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1003377
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.092953
M52233	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0956785
M52233	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.12124606
M52234	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2903451
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1992916
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2427615
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29227736
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2436738
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079394
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21565787
M52234	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1860497
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1873391

M52234	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2959582
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.17597958
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.175969
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2224537
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2077616
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.200153
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20608447
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2772904
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18759603
M52234	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.22964988
M52234	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35020557
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.30530391
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2509653
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.21919806
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.33374727
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2081644
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.3363541
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobac	-0.1928703
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.24266384
M52234	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.2146863
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.3599238
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.1814881
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.3235626
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.3180122
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	-0.2870681
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.2209432
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococci	-0.1934043
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1716715
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1690687
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.2172795
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	-0.205808
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.1685773
M52234	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	-0.2679945
M52234	genus	k__Bacteria.p__Fusobacteriia.c__Fusobacteriia.o__Fusobacteriales.f__	-0.192378
M52234	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospira	-0.1757172
M52234	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.2408861
M52234	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.29267919
M52234	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.17101095
M52234	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.2547051
M52234	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.21197453
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2007796
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2611275
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.3066644
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.204789
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2832054
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.357001
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.38382063
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2963141
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2663307
M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.2218349

M52234	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2949349
M52234	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2921764
M52234	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2109269
M52234	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3082876
M52234	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2018574
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20705623
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.2218349
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1770373
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3679985
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1944083
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1769773
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2604523
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3507
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3441842
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2079028
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2148827
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1704224
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3181846
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2591532
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1943956
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2000952
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.256649
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1770373
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1747841
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2540387
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3374436
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.28098707
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3971773
M52234	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2703304
M52234	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1687472
M52234	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2524669
M52234	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1757172
M52238	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09695127
M52238	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1106984
M52238	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09199771
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.169111
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1195392
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.169925
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0954169
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0976831
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1065275
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0864605
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0914807
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1067077
M52238	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09052102
M52238	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1152703
M52238	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11206964
M52238	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.14813144
M52238	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10942252
M52238	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.14569683

M52238	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0929827
M52238	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.08875216
M52238	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1461624
M52243	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1194104
M52243	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1019426
M52243	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1198018
M52243	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0833997
M52243	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1073539
M52243	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1038956
M52243	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0952997
M52243	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0778814
M52243	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1041665
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.08099
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1082895
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0829963
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1025685
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0935635
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0948762
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0875069
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0837166
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0990046
M52243	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0848675
M52243	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.1357255
M52243	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0983352
M52243	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0940935
M52243	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.0837815
M52243	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0901361
M52243	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1206607
M52243	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0761687
M52245	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17380853
M52245	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.17672283
M52245	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1807283
M52245	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1986852
M52245	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.19973286
M52245	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2133608
M52245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.19682192
M52245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1946848
M52245	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26278406
M52245	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.17380853
M52245	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.2487252
M52245	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18741202
M52245	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18494629
M52245	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1956807
M52245	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.1806913
M52247	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08978327
M52247	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09128573
M52247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10982904
M52247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.08847897
M52247	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.12262207
M52247	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10786105

M52247	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.12121292
M52248	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1132426
M52248	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1318842
M52248	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.09214
M52248	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08831791
M52249	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.20421256
M52249	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18127486
M52249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1767838
M52249	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.17581399
M52249	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1905052
M52251	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2183942
M52251	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18830555
M52251	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2367173
M52251	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2238549
M52251	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2078874
M52251	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2185458
M52251	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2045112
M52251	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.225356
M52251	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2304101
M52251	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2077016
M52251	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2033707
M52252	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26551179
M52252	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2102224
M52252	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25047028
M52252	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2227937
M52252	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2231674
M52252	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.23756282
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2249824
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2267569
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31585873
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26127221
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.30923373
M52252	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24568921
M52252	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2663393
M52252	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23761442
M52252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1999202
M52252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19654796
M52252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2293746
M52252	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.30437652
M52252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2131244
M52252	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2326788
M52252	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2234523
M52257	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0819007
M52257	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1106311
M52257	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851606
M52257	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1056638
M52257	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0844529
M52257	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0827534
M52257	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0826295
M52257	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1002663

M52257	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1009794
M52257	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1346798
M52257	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0996736
M52257	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0871148
M52257	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0822005
M52257	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0981853
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1474555
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1487024
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1153266
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1135849
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12104696
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08229801
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17345772
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14075551
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0798459
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1093233
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0881625
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11599395
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1959929
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1296774
M52257	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14825693
M52257	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0855005
M52257	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1179658
M52257	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.096154
M52257	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0930496
M52257	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1652016
M52257	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0917829
M52257	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0926949
M52257	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0960263
M52257	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1691275
M52257	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0949819
M52257	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0871404
M52257	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0824892
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930822
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0986026
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1294707
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1043276
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0882304
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09349008
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.091331
M52257	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1009307
M52257	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0938959
M52267	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.22006112
M52267	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2024908
M52267	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1823915
M52267	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.22006112
M52267	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.20328516
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.222268
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1837245
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.260046

M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930747
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2125191
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1665261
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1908777
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17771056
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1999427
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2428639
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20207875
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930747
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1908777
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20359872
M52267	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930747
M52267	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1851679
M52267	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3151306
M52267	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1908777
M52267	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.1930747
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23235355
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2598459
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2316822
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2319052
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1939191
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1930747
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20328516
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1779268
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	-0.1908777
M52267	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	-0.1881595
M52267	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.1908777
M52267	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.2016369
M52267	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.18575583
M52267	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.1930747
M52267	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.17405255
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1886242
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.19514428
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1908777
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2022861
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.228707
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1866083
M52267	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.203417
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1908777
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2484712
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2116408
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19884712
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1801011
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19837374
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3150111
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1860398
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1810926
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2587715
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3694543
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2044401

M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20669035
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2095697
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23267386
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2505382
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3354471
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2140216
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2054087
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2310761
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1846361
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1841629
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16881076
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2647446
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2553128
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1926269
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1718164
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1766716
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1785861
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1925608
M52267	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29099484
M52267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1914664
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M52267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2018624
M52267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1822316
M52267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.214303
M52267	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1887071
M52267	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1971293
M52267	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2040479
M52267	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.19087768
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.197546
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1855891
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1908777
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1930747
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M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2005894
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1908777
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M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18780564
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.193658
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.2262837
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1738331
M52267	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1791915
M52267	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2105908
M52267	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1664834
M52267	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3786924
M52267	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1908777
M52267	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1908777
M52267	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1989146
M52267	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.19565822
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.19087768
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1908777

M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2037623
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21760404
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1904021
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2081015
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1794843
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1766498
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1844594
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1906445
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1908777
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1734887
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.177147
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.22006112
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1992027
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1908777
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19437059
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1930747
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2196275
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1836426
M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1855891
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M52267	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19087768
M52267	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1706824
M52267	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1807144
M52267	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1677956
M52267	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1900974
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1830146
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1930747
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2064321
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2030438
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3525581
M52267	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.19087768
M52268	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923561
M52268	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1426229
M52268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1463228
M52268	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1044015
M52268	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.11300898
M52268	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09020413
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.142412
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1390067
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.190753
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0944075
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09718318
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10689214
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13452415
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1293385
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11070139
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.088934
M52268	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20167847
M52268	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11358545
M52268	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10651664

M52268	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1008132
M52268	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11993646
M52268	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.11171586
M52268	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.12373
M52271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18694258
M52271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19120493
M52271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19337134
M52271	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19037171
M52271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.19233466
M52271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.1952156
M52271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18453451
M52271	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20819024
M52271	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.18715627
M52271	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphing	0.18525817
M52271	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.18882558
M52271	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.25972105
M52271	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19659263
M52271	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.30302682
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.25601101
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19907478
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21426698
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18861037
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24650284
M52271	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22677402
M52271	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.18715627
M52273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2558263
M52273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24744886
M52273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30194717
M52273	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2361014
M52273	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.22589778
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2168699
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.2103152
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.26015314
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2513055
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2255795
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27864439
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.38045042
M52273	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.29310053
M52273	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.43230632
M52273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1969386
M52273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2588437
M52273	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.32663762
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2331611
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.24149038
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2185763
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.302269
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.24880014
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.26089211
M52273	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2024306
M52273	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.20672574

M52273	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1864655
M52273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2394187
M52273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22847496
M52273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.30417391
M52273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2558263
M52273	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23475689
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.290887
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3116017
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3740732
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25600932
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.279446
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2017307
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2161974
M52273	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.25557703
M52273	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2964468
M52273	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.228518
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.27730438
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.18626612
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3469243
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2533665
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18319082
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1905125
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1996421
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22491259
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1972354
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2205152
M52273	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.19762054
M52273	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.35749962
M52273	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.24601052
M52273	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.19112474
M52276	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.07750088
M52276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1573221
M52276	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09639455
M52276	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09263577
M52276	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0831324
M52276	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0815002
M52276	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1166172
M52276	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.08993012
M52276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09675242
M52276	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.081561
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08419091
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11361657
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.15273087
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.16913754
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1213409
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.07961695
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09648644
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08150364
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.07943782
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10268213

M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10381651
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11677108
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08485558
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09287978
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.07914777
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07792215
M52276	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0860336
M52276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.15800265
M52276	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.13707749
M52276	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0788973
M52276	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.0904784
M52276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0881167
M52276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.074498
M52276	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.0954118
M52276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1023318
M52276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.088301
M52276	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0848119
M52276	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.13377651
M52276	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17157281
M52278	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1442454
M52278	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0797923
M52278	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0972876
M52278	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0961968
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0840886
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0903139
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1254436
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1290566
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09781468
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10397284
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15667902
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1750781
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.082391
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10233259
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1157112
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19003911
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1644315
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.092555
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0821534
M52278	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22952379
M52278	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0908173
M52278	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1117098
M52278	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1425155
M52278	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1458236
M52278	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08226139
M52278	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1720314
M52278	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08276001
M52278	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0799439
M52278	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16197291
M52278	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0969405
M52281	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0834458

M52281	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0913043
M52281	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1380951
M52281	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1148259
M52281	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0763863
M52281	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0822982
M52281	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0857814
M52281	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0923365
M52281	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.08848492
M52281	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococ	0.100735
M52281	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibac	0.10709972
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0768709
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococ	-0.1227975
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.1207053
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.08264561
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.07850221
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.07853772
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.12091195
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.1136102
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	0.1161573
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococ	-0.1407733
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissieria	-0.0799187
M52281	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.27093971
M52281	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0847572
M52281	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1254872
M52281	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1721081
M52281	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.18633636
M52281	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.08625554
M52281	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	-0.1185452
M52282	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanospirillum	0.08834113
M52282	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08556859
M52282	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11329017
M52282	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08083656
M52282	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09355416
M52282	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.08942168
M52282	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.08492503
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.0863192
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.12865318
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospira	0.10110767
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	0.12806188
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.09589495
M52282	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.0908799
M52282	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.08849683
M52282	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.12089147
M52282	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.08457831
M52282	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.0838229
M52282	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.09153235
M52282	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.0848176
M52282	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.09750069
M52282	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.08343857
M52285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0846483

M52285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0810232
M52285	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1057395
M52285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.0786973
M52285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1047663
M52285	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobac	-0.0928168
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1169228
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.085836
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehaloc	-0.1041785
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacter	-0.0912099
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.08012
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.0788353
M52285	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0955505
M52285	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.09600056
M52285	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocycl	-0.0991852
M52285	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotom	-0.100807
M52285	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotom	-0.0831071
M52285	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotom	-0.0822126
M52285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	0.0903208
M52285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.1077261
M52285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.0780511
M52285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.1046228
M52285	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobact	-0.1159148
M52285	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitut	-0.0846243
M52285	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0872954
M52286	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera	0.30929174
M52286	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.3032685
M52286	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2858311
M52286	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	0.30929174
M52286	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.27725458
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.20367583
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2026567
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2319221
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.221466
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.2828598
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2024682
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2261864
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.20787932
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2180334
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.27984651
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2319221
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2261864
M52286	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2319221
M52286	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.2261864
M52286	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.2319221
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.34953942
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3192776
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2132396
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3551586
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.262166
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1816138

M52286	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2319221
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2105914
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27725458
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2970008
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2302455
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2122253
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2261864
M52286	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2093954
M52286	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.2261864
M52286	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.2369073
M52286	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.24042998
M52286	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2319221
M52286	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.22385932
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2234893
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2261864
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1857259
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2144621
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1969834
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1990997
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.226231
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1853419
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1970173
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1853942
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.18511188
M52286	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2745435
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2261864
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2071535
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2064925
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2242173
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.23782905
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2120276
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2791433
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2155316
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4026881
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2123437
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19254572
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2072391
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34614393
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2006044
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3052631
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28593773
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2562007
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2442183
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2466612
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2057477
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2184759
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1814238
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20250165
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2148238
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.287457

M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2473418
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.3735751
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.271744
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2600665
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18814818
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2026063
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2278204
M52286	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22587535
M52286	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1923252
M52286	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2570325
M52286	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2658701
M52286	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.22618692
M52286	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.33751085
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.189718
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.19795725
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2635792
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2319221
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22618692
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22910202
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1962871
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.27688326
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.29721344
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.2828598
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1923541
M52286	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2107597
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19068318
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19803673
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25082771
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25083239
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26286726
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2307133
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.3151099
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.218015
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.35420578
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2240226
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3376741
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2099811
M52286	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.26084021
M52286	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2230293
M52286	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.21492261
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22618692
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2103942
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2153054
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.35826093

M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1977337
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2519227
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2394186
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2413441
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1900288
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.38131919
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1962621
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2171189
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2128515
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1975107
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.18296789
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2079879
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.30929174
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2363327
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2261864
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2047021
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31417808
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2319221
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2184304
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.189718
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.28210442
M52286	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22618692
M52286	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1862961
M52286	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2499918
M52286	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2478548
M52286	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2319221
M52286	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2284948
M52286	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.205174
M52286	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2279186
M52286	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.22618692
M52289	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2442692
M52289	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2470826
M52289	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3279539
M52289	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2602383
M52289	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.3014768
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3306768
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6413462
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2373877
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2120121
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30214134
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2078784
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4014817
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.29982296
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3720471
M52289	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.50840101
M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2167154
M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1880736
M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3424303
M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3044419

M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.206761
M52289	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.3935048
M52289	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2314584
M52289	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2213177
M52289	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2633847
M52289	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46233661
M52289	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobi	-0.4027349
M52294	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08382099
M52294	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08382099
M52294	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1345023
M52294	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12066494
M52294	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08924619
M52294	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1467609
M52294	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11096486
M52294	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0869512
M52294	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0885364
M52294	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10806391
M52294	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1274517
M52294	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.11181709
M52294	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.11069618
M52294	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0833003
M52294	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0905156
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0901412
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0849241
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09099488
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0869674
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07974148
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09272923
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.107823
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1027945
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1147592
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1502559
M52294	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.090227
M52294	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1097992
M52294	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1027749
M52294	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0890374
M52294	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1010168
M52294	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0939918
M52294	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0970576
M52294	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0853423
M52294	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.10979913
M52294	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08013893
M52294	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.12066494
M52294	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08949542
M52294	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0914601
M52294	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0953921
M52294	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1166412
M52294	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0876169
M52294	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08261571
M52294	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1001602

M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0797832
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10212758
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0798986
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1042772
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.116269
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08382099
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.083731
M52294	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11068993
M52294	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0879596
M52294	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0931457
M52294	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0822113
M52294	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0821011
M52307	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1030327
M52307	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2124304
M52307	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0896952
M52307	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0893049
M52307	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09042229
M52307	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0931636
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehaloi	-0.1386522
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1154322
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0846778
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09621188
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08172301
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08498967
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0961278
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1540496
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12804427
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1203371
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0886103
M52307	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17205544
M52307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1385896
M52307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0816158
M52307	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1221399
M52307	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1129153
M52307	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1016451
M52307	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08074247
M52307	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1018659
M52307	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16804625
M52307	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1549167
M52315	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.32309779
M52315	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.39067727
M52315	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26231698
M52315	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.38354248
M52315	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.25520105
M52315	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.26802535
M52315	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2817989
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2794836
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.32176592
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.32475621
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.30044026

M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.2675544
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.3476396
M52315	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.3244434
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.27052272
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.30571356
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.32759991
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.31205241
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.33486544
M52315	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3417438
M52315	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.28608481
M52315	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.29299264
M52315	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2573772
M52315	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.26231698
M52315	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.34962135
M52315	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.361855
M52315	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.32179294
M52315	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.26455046
M52315	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.41671038
M52315	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.28975561
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.33686243
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.43980167
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32780561
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.33851015
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28862493
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.34073901
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32132086
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2791334
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.40251287
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35669859
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.33686243
M52315	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.42516884
M52315	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.29534881
M52340	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876213
M52340	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1207576
M52340	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0830098
M52340	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0930901
M52340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1241625
M52340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07854469
M52340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0865478
M52340	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0896811
M52340	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0785473
M52340	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10311029
M52340	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1072695
M52340	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08896862
M52340	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0825478
M52340	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0836007
M52413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09914497
M52413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0769389
M52413	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08359038
M52413	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0829149

M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08990163
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10894296
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0916751
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11376707
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1322434
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0788029
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0781668
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.11334407
M52413	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08218285
M52413	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.08572945
M52413	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08387805
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0738008
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1131067
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11904531
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1143962
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10805182
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08649889
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11219551
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08018534
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13615053
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07445191
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11173808
M52413	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16338428
M52413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09191217
M52413	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0963217
M52413	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0869769
M52413	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.08429715
M52413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.11592982
M52413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0769389
M52413	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08458661
M52413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0850513
M52413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0785188
M52413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0986865
M52413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0771653
M52413	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10256608
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08274963
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09507945
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0751231
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09004207
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	0.08027081
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13550812
M52413	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1003651
M52413	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.0979936
M52413	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0785268
M52434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1782567
M52434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23615032
M52434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2551367
M52434	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.225101
M52434	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2690986
M52434	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18604187

M52434	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23631295
M52434	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2035607
M52434	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27051939
M52434	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.2367178
M52434	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18251267
M52434	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.37303488
M52434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.227648
M52434	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.23634651
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1874042
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2172072
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23606496
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19058005
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.27285029
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18747147
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1801691
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21969918
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20870617
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20084893
M52434	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3209727
M52434	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.21334623
M52434	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.32520262
M52434	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26932741
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1871355
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.213322
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24417884
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3329749
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.216442
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.24669
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2787341
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.30998179
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1904107
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2924414
M52434	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2024572
M52434	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1799024
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26969471
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2407635
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3102347
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2657772
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1827757
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2718717
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3145451
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19424141
M52434	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2368187
M52434	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25835098
M52434	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.28530776
M52450	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2145412
M52450	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1909204
M52450	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.27427449
M52450	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25708769
M52450	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.207194

M52450	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1899238
M52450	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2157197
M52450	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19952746
M52450	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1972645
M52450	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24603313
M52450	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1910189
M52450	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21861927
M52450	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1981189
M52450	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.196578
M52450	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23910968
M52453	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10705483
M52453	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11550522
M52453	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0931901
M52453	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0849146
M52453	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0958186
M52453	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.10957921
M52453	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0880663
M52461	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0789801
M52461	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.090501
M52461	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1071464
M52461	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10255664
M52461	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09646239
M52461	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0862323
M52461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.0962158
M52461	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09589538
M52461	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08678513
M52461	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1118645
M52462	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2935674
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2732802
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2054559
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34026135
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.46855985
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4153166
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.25895
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26114465
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3331833
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.39056288
M52462	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4592375
M52462	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.283115
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25953716
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.4731395
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25866147
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2729202
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.33537328
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2513598
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.35234714
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.6230327
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.60527963
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__f	0.43106194
M52462	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.24582134

M52462	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.53941552
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.40052515
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2685117
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__	0.40239269
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.59928413
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2536026
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.20494683
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.526626
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.6607489
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.23896695
M52462	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.35268862
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.4622884
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.26128492
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.4058913
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.259703
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.6019555
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.5903946
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2224714
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21042261
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2755028
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.21226447
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3255572
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24751666
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.34752568
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.3531509
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.5324382
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19552949
M52462	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.4257238
M52462	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.34711316
M52462	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.44729488
M52462	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.551205
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2512294
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.73194723
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3604503
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.43694777
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2081956
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.4153166
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.26552817
M52462	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.31591829
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5297561
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3768903
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3737077
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3808097
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.296502
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2965171
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5634929
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.6909101
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5656783
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.73345103
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.6116686

M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2675743
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2373253
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.4986421
M52462	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.32022472
M52462	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.4359806
M52462	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.305407
M52462	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.4940352
M52462	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2935306
M52462	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2663733
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.4556573
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2373253
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5638716
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.4652518
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.5167868
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3569811
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2531893
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2460266
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.5452276
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4462044
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.30843364
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2769136
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3518121
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.29446023
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2049193
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.2164042
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4202149
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3526689
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3338717
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2365154
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.6112685
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.53875351
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.4899112
M52462	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.320265
M52462	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.38884002
M52462	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.47960645
M52462	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3916845
M52473	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	0.08589584
M52473	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1288019
M52473	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08589584
M52473	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f	0.08944927
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.088186
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0909291
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089381
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0870791
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878508
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878508
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0992836
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923933
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0915983
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08743291

M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878508
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.088948
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08845154
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089381
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923933
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0891216
M52473	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089381
M52473	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.10670086
M52473	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.0923933
M52473	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.089381
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0996772
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1151143
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1062735
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.089381
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0898187
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.08944927
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.09866245
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0983745
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0923933
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0796098
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0933077
M52473	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0853374
M52473	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.0923933
M52473	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.1019348
M52473	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09819972
M52473	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.089381
M52473	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.09956766
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.096499
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0945828
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0850624
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0923933
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0878508
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0915834
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0923305
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0863295
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0850621
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.0888899
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0847856
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0811867
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0831852
M52473	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.097624
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0923933
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0870236
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09350697
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1008614
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0803915
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0912543
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1003302
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0855276
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0788066

M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1081159
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0878508
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.084422
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0848031
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1108191
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0995687
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09400873
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0825262
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0821105
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0996722
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0890706
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0901554
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10485819
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1067001
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1054964
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0849478
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0952588
M52473	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0878508
M52473	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09492378
M52473	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09239326
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0933799
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0852794
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0876736
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.089381
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09239326
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10015068
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0904386
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09114297
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08376382
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0853113
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0995768
M52473	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0972363
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1051265
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1067001
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08220216
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08218762
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0869905
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0820897
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0881719
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0886747
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0853509
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1042042
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.095308
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0917011
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0917425
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.094112
M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0923933

M52473	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0878508
M52473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0846474
M52473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.082579
M52473	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0867775
M52473	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0900329
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09239326
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0895328
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.095308
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0878508
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0899132
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1084377
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0951683
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1126021
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1111472
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0830534
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999417
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1477208
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0881359
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0969169
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0993383
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0790587
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08589584
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0836693
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1118815
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1189653
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0923933
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1074204
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.089381
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0899132
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0919137
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0796385
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0889767
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0926757
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0852794
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08745048
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.09239326
M52473	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0809696
M52473	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0878508
M52473	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dc	-0.0878508
M52473	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dc	-0.1099519
M52473	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dc	-0.117827
M52473	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0784395
M52473	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1072611
M52473	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.089381
M52473	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.11414402
M52473	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.09239326
M52603	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	-0.4858319

M52603	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.4858319
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.48702398
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2739026
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.5910941
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31260431
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.28743715
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.44886982
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2739026
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.28743715
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.66580198
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.347823
M52603	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2739026
M52603	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.32206287
M52603	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	0.28743715
M52603	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	0.2739026
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.8204803
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.42079568
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.28259586
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.4245846
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2739026
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.55388454
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.3303581
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.64180313
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.4650763
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.6879448
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30535976
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.59149669
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.28743715
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.26924
M52603	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.33120646
M52603	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.28743715
M52603	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__I	0.29007157
M52603	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.2739026
M52603	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.70930854
M52603	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.3074279
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.5992164
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.397354
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.28743715
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.59961971
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3314191
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.29285741
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.29403901
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.6595652
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.37824582
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.35186189
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.44334625
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.5085617
M52603	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.35663865
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.482123
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.28743715

M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.37185559
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.2749888
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	0.2911017
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.3887358
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.5525052
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.39201913
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	-0.8854066
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	0.30345695
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnosp	-0.4504242
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	0.44680805
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	0.37173487
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	0.36117035
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	-0.2713609
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminoc	0.28561286
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissier	0.31522
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissier	0.3685133
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.60821788
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2990311
M52603	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.36070781
M52603	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.29451014
M52603	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.52673394
M52603	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.34100489
M52603	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.5825441
M52603	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2874378
M52603	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.8425782
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.3138628
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.84848203
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.2739026
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2874378
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.2809336
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.68106656
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobium	-0.4300896
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobact	0.29869487
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobact	-0.4744866
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia	-0.5910941
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingob	0.43192276
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingob	0.56890475
M52603	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingob	0.29173952
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.5179699
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.4118843
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.3216241
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.4050549
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.4050842
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.696445
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.28908565
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.7652282
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	0.29416625

M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4870158
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.75205533
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.8566891
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.54424741
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3288525
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.53676797
M52603	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3628988
M52603	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.4739328
M52603	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.442578
M52603	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.30248836
M52603	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3224691
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2874378
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.68840851
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5632727
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.7270877
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.5308624
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4466628
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.362332
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35069249
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.6287588
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.402831
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4325882
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.5374629
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.43286758
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4858319
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.27203238
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.3410878
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.28743715
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.6451823
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2739026
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5092615
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.47256399
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.5542416
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.35978124
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.34456994
M52603	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2874378
M52603	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.40511445
M52603	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.40258781
M52603	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.35468774
M52603	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f	0.32029002
M52603	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.2739026
M52603	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2874378
M52604	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0779247
M52604	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f	0.08218761
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0772273
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0794317

M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0794317
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0767242
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08492102
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0794317
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M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0772273
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0767242
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07703195
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11071477
M52604	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0772273
M52604	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriia	-0.0833606
M52604	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriia	0.07975727
M52604	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0767242
M52604	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0772273
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07812569
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0772273
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08218761
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0761792
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0767242
M52604	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0764536
M52604	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.0767242
M52604	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0760235
M52604	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07870701
M52604	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0772273
M52604	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07586682
M52604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0767242
M52604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0794317
M52604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0859859
M52604	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0761391
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0767242
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0855412
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1345166
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1920651
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1086112
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1014262
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0794317
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0836178
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1031843
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07540211
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0829486
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1086803
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0767706
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.074927
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1522786
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0845805
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0819519
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0907627
M52604	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0794317
M52604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0767493
M52604	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1226543

M52604	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.12053193
M52604	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0831057
M52604	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07672422
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.07778727
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0811151
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0772273
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07672422
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0888561
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07865142
M52604	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08072032
M52604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0775617
M52604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0828855
M52604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0877823
M52604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0794317
M52604	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07672422
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.08598
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0794317
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.0797916
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0767242
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0772273
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0830815
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08010025
M52604	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.07672422
M52604	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0794317
M52604	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f_De	-0.0794317
M52604	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f_Sy	-0.076
M52604	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0815355
M52604	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0772273
M52604	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0970193
M52604	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.07672422
M52608	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12225536
M52608	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1119095
M52608	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.07545479
M52608	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1231454
M52608	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1243394
M52608	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.088671
M52608	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09596479
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1597196
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1358027
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2321747
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1548051
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10313348
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11057599

M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09030393
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13419183
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1873255
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09812935
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1427243
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0765092
M52608	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27705831
M52608	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1142091
M52608	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1003981
M52608	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15197533
M52608	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0980192
M52608	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07434528
M52608	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0848112
M52608	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16953985
M52608	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13488554
M52608	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1792609
M52625	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f	-0.3513899
M52625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2884448
M52625	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21583858
M52625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2146222
M52625	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.25096809
M52625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.24723267
M52625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1993699
M52625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19261019
M52625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22301692
M52625	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22305949
M52625	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2409299
M52625	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2546989
M52625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17815231
M52625	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17032326
M52633	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1773427
M52633	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1737184
M52633	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1897225
M52633	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1945345
M52633	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2503572
M52633	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19458087
M52633	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17640766
M52634	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08921554
M52634	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.127912
M52634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09936331
M52634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0932173
M52634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08591901
M52634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0905375
M52634	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.086374
M52634	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.14053155
M52634	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09076316
M52634	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0925264
M52634	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.13263004
M52634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0967554
M52634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0858141

M52634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.103552
M52634	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.090035
M52637	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08517021
M52637	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12619526
M52637	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0868803
M52637	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09055028
M52637	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0854379
M52637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1018798
M52637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09436465
M52637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0939241
M52637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08218497
M52637	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09836995
M52639	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1078325
M52639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1007232
M52639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13710711
M52639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1069926
M52639	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1013284
M52639	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0987435
M52639	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.20318684
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0988142
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1229714
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09994435
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.106464
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0884604
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0818417
M52639	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1092935
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0841206
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0912491
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0856593
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1138117
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0968757
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.12766844
M52639	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.089381
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0849183
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1016237
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2212936
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.257951
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1564477
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0997426
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1260045
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1187082
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1165243
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1070977
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.079903
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1054
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.089515
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0902892
M52639	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18251862
M52639	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0895181
M52639	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1023234

M52639	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0907514
M52639	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.083784
M52639	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09222271
M52639	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0928959
M52639	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1351286
M52639	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1056966
M52639	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0788494
M52639	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1015383
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1146343
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1084018
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1175226
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0772207
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1214978
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1134927
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0787946
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1042386
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.16204013
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1146343
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0861674
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0977051
M52639	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0907514
M52639	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1148192
M52639	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1275944
M52639	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1023234
M52641	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17357583
M52641	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1910047
M52641	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1832431
M52641	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.26044104
M52641	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1814678
M52641	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.17199423
M52641	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.19963552
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.19656003
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.18715143
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19823736
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20954215
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17162897
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.19759825
M52641	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.200922
M52641	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2041161
M52641	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20214753
M52641	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.19906139
M52641	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17714836
M52641	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18273473
M52641	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.17720653
M52641	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23100217
M52642	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10306558
M52642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0913046
M52642	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1271378
M52642	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08146565
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2161559

M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1998831
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2885024
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1746744
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11680295
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13960996
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0850492
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18596499
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2036007
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.11388645
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1315199
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.11513865
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08577804
M52642	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25986699
M52642	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1091722
M52642	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15085982
M52642	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08678775
M52642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.105774
M52642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1754839
M52642	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11371107
M52642	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1768
M52655	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0901963
M52655	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1002942
M52655	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.14162638
M52655	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11957991
M52655	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.08747523
M52655	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11752635
M52655	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13044576
M52655	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09715641
M52655	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09644929
M52655	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12147188
M52655	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09084424
M52655	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.14962022
M52655	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09951381
M52661	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.21954969
M52661	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2885708
M52661	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2123079
M52661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2564236
M52661	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2765527
M52661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21700443
M52661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23828452
M52661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.256072
M52661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22681081
M52661	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.51784827
M52661	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2489902
M52661	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.25294681
M52661	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46994823
M52766	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2116647
M52766	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.227201
M52766	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2547951
M52766	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.28770409

M52766	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20538212
M52766	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.27176661
M52766	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2186099
M52772	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0820494
M52772	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10708305
M52772	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09283747
M52772	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.11566627
M52772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08712521
M52772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08831621
M52772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17459474
M52772	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07864212
M52772	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08501767
M52772	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0915829
M52773	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18258887
M52773	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17913291
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2921766
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3994672
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30386902
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19124185
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19042759
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1798127
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1802494
M52773	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30379293
M52773	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1969493
M52773	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2639227
M52773	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.18516163
M52773	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2504328
M52773	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23037767
M52773	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19221275
M52773	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1913881
M52773	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2598299
M52782	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08381746
M52782	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790453
M52782	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10376964
M52782	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08590891
M52782	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10370244
M52782	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.09945667
M52782	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0878561
M52782	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0843932
M52782	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.11157385
M52782	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.07270039
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1156005
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1926248
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08142433
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07894546
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08470438
M52782	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08578203
M52782	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0790453
M52782	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.078231
M52782	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0742561

M52782	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.07554409
M52791	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09860837
M52791	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1282356
M52791	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08878756
M52791	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08010464
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1935654
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11812079
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08537151
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10765489
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09930865
M52791	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19955582
M52791	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0810705
M52791	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.1450252
M52791	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.1297481
M52791	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.0853957
M52791	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.08010109
M52791	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08468322
M52791	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11919235
M52791	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10932079
M52791	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.085694
M52833	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09761984
M52833	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09958796
M52833	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11426045
M52833	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0886988
M52833	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09087041
M52833	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09105617
M52833	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0845998
M52833	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.12053361
M52833	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08987606
M52833	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0968108
M52833	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08658924
M52833	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0919092
M52833	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0820734
M52833	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08933603
M52833	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09958796
M52833	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.08580005
M52833	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1054096
M52833	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11770228
M52833	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09425696
M52833	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09285084
M52850	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0950649
M52850	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0995115
M52850	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0856732
M52850	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1023285
M52850	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0919015
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11350535
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0877407
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.090545
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0816796
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1528076

M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0846053
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1252316
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0946185
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1180806
M52850	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1247624
M52850	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1265585
M52850	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0862861
M52850	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08017827
M52850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999538
M52850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1295092
M52850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1368736
M52850	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0871508
M52850	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0985142
M52867	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.33330624
M52867	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.2088117
M52867	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.23236166
M52867	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2239137
M52867	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2379278
M52867	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18395979
M52867	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29497746
M52867	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24549877
M52867	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.20934405
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.6874452
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8116417
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3130217
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27259731
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.5699871
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1890314
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.1931301
M52867	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19930459
M52867	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.327607
M52867	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18524821
M52867	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1825821
M52867	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19966349
M52867	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3691846
M52871	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.21391037
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20423542
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3304429
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1978722
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2363682
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2173015
M52871	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2732285
M52871	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2188704
M52871	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23954554
M52871	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3545121
M52879	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1706055
M52879	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1789913
M52879	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.179595
M52879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2179229
M52879	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1718611

M52879	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2161843
M52925	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.17416699
M52925	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.19381239
M52925	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2053288
M52925	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.18500854
M52925	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.21405753
M52938	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0950005
M52938	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1036401
M52938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.13742737
M52938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1038606
M52938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09340452
M52938	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10785445
M52938	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17192279
M52938	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0987465
M52938	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08225347
M52938	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.1307798
M52969	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.46802031
M52969	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.2581738
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.200052
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34035863
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21837738
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27266518
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25778507
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.25563552
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20988805
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.29188412
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19936484
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18256339
M52969	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23575775
M52969	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.18161148
M52969	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.35575129
M52969	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22987802
M52969	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.18021209
M52970	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.28120668
M52970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3058545
M52970	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23679866
M52975	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27372772
M52975	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.24282121
M52975	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24213643
M52975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2416064
M52975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21735216
M52975	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2322616
M52975	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.†	0.27895937
M52975	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.20240938
M52975	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2169723
M52975	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2306115
M52975	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2114384
M52975	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.23412233
M52975	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2174139
M52975	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.25037515

M52987	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1798396
M52987	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2719083
M52987	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.266222
M52987	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1782326
M52987	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.22288
M52987	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1786703
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4372726
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3098429
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4470109
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2653037
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2762459
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34278647
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.48551525
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2008613
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.400806
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.34872714
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4409759
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1907963
M52987	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.54260212
M52987	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2795585
M52987	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholde	-0.4154676
M52987	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2667658
M52987	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aerobr	-0.1779503
M52987	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob	-0.230771
M52987	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurel	0.37391847
M52987	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomon	0.1974341
M52987	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.3380619
M53010	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera	-0.2792073
M53010	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobac	0.23470814
M53010	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2792073
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2051973
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31948139
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.405225
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2074349
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23404278
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3243117
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.40601421
M53010	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2809966
M53010	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.25611915
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21068677
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.5104747
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27761835
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23176292
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27842351
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.30553726
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28024823
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3228899
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.38384179
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2275019
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2486432

M53010	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.39757301
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.56774008
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.38494645
M53010	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.20293988
M53010	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.44991297
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.53232994
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2029046
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.38544342
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2140301
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2689374
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.529273
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.22577982
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.28075002
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.24737996
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.36001798
M53010	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.19867534
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25705585
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.23920614
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.332198
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20718719
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.564113
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26907445
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.34768241
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2606609
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26354062
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.21427476
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.22334943
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2384169
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.34789458
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2259669
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21351144
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.32652636
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.44525899
M53010	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2377451
M53010	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.36846181
M53010	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.38851173
M53010	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.5155105
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2272094
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.62048374
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2303088
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.44724872
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2394234
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2748073
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.405225
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22264784
M53010	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.39029082
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2117608
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2925891
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5020247
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5656745

M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.59773538
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5605922
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.27735608
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20558685
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2929631
M53010	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.36946492
M53010	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2885096
M53010	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2271012
M53010	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2604701
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.45377083
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.29701499
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.453764
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3433733
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3301337
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2756804
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4204747
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.48332636
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2595882
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.37967722
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.28101887
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2792073
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3926265
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.4358665
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.3842827
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19240667
M53010	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2011823
M53010	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.29077587
M53010	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.36438431
M53010	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f	0.2104426
M53010	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f	0.21751748
M53010	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2258488
M53010	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2713811
M53013	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2258066
M53013	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2258066
M53013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21914027
M53013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27479542
M53013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2359398
M53013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21251228
M53013	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31904669
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.4340982
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.2283659
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.24045607
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.21590938
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.23356989
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3088826
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3057974
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.28791086
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.3292861
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3860802
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.42825536

M53013	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.31635868
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.23953451
M53013	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22948515
M53013	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.39330606
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.39368862
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.42510349
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2274759
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.4762042
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.20963431
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.23635942
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.35060593
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.2125337
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.2517451
M53013	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.20267265
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2357916
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.27845195
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4198738
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23052512
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26068717
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.4338305
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31207315
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27141679
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18880746
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2091797
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19395818
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2892434
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21611669
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.23735997
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.25498548
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1890575
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.41401909
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22560864
M53013	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.30119434
M53013	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.279718
M53013	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21409663
M53013	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.29124728
M53013	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.4375655
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.6404751
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2016411
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.36897657
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2165428
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2359398
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22074311
M53013	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.33900906
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.342026
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2949312
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2590747
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.259032
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4579691
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.435274

M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2464881
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.59209
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4389223
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.26894678
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1942976
M53013	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.27445218
M53013	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2632088
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.3627013
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2118836
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.318122
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3441316
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23417364
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2916592
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3357031
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.32603996
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.28331954
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.23645103
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2258066
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.295989
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3663791
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.35529307
M53013	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2724804
M53013	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2440253
M53023	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1035203
M53023	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0950108
M53023	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0844912
M53023	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1256354
M53023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1028014
M53023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09466144
M53023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0987601
M53023	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09818644
M53023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08425565
M53023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.12118685
M53023	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08335144
M53023	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0869336
M53023	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09375132
M53023	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0871137
M53023	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10199363
M53023	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09271045
M53086	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2414185
M53086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24332808
M53086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.273863
M53086	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.25115179
M53086	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.25500839
M53086	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.29814198
M53086	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29486731
M53086	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.25739233
M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.6630808
M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.767851
M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3124333

M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29820816
M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23940723
M53086	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28357099
M53086	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.2649932
M53086	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2302081
M53086	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.30651613
M53086	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.23048483
M53086	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.3040083
M53086	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionaceae	-0.2237487
M53086	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.5100447
M53106	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0910116
M53106	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1217835
M53106	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0901187
M53106	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1234148
M53106	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.0875062
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1224381
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiaceae	-0.1404443
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.2403644
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriaceae	-0.1599906
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.12438894
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.08504812
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.16563276
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.11139693
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.23083604
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.0873189
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1235082
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.15146007
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1798583
M53106	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.26861119
M53106	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1427726
M53106	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0827032
M53106	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2332908
M53106	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.0858936
M53106	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriaceae	0.0961987
M53106	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.1172413
M53106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	0.08338509
M53106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0942411
M53106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.09378872
M53106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.17742781
M53106	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadaceae	0.0955781
M53106	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutaceae	-0.0874791
M53106	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1898215
M53110	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.2444663
M53110	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.22375324
M53110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.19883812
M53110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	-0.2310514
M53110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellaceae	0.19978696
M53110	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.19863159
M53110	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.18849943
M53110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.1998986

M53110	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.21796466
M53110	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2211419
M53111	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0857976
M53111	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1034675
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0938356
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1997106
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10552876
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08520627
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0859192
M53111	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1631878
M53111	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10002249
M53111	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0979395
M53111	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15032006
M53114	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1061789
M53114	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1241665
M53114	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1090977
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1321328
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1028674
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0959519
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0794141
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.084606
M53114	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0993084
M53114	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1010155
M53114	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0917754
M53114	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0812496
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1092705
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1632285
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.259548
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1568836
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08136922
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11691795
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20069475
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0773826
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0865872
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2084232
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10623464
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1932387
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.076268
M53114	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29791561
M53114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1435246
M53114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1021425
M53114	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.210264
M53114	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11190201
M53114	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0798437
M53114	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0812838
M53114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.07557067
M53114	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0846132
M53114	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0793154
M53114	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0814031
M53114	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0934373

M53114	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.103478
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0845797
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07898118
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0872899
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1423182
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0815904
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22331747
M53114	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0824592
M53114	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0791473
M53114	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0891174
M53114	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2056122
M53121	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23160899
M53121	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21641886
M53121	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2823576
M53121	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.24350062
M53121	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2895082
M53121	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.209556
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2598299
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.260631
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19846646
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23276161
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20486767
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2142805
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2034612
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2709385
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28849778
M53121	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2077611
M53121	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.23300565
M53121	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2076393
M53121	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23427038
M53121	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24826021
M53121	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3436764
M53121	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22808549
M53121	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27603582
M53121	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2308546
M53125	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07905498
M53125	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1160893
M53125	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1008654
M53125	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1033026
M53125	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0958571
M53125	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.07905498
M53125	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09400629
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1286788
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.103858
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0908173
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0988693
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1269702
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1076437
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1076437
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1048173

M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0968951
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0953506
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1300412
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1055509
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1076437
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923548
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09357023
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0988693
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0953506
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1177404
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0988693
M53125	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0999912
M53125	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0838219
M53125	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophila.o__Solirubrobact	-0.0953506
M53125	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0988693
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.089396
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1405262
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0816993
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0933044
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1050232
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0865738
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1180973
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1042196
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0988693
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1067286
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1001555
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.09400629
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1164458
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.099049
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.09607854
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1037464
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0953506
M53125	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.096671
M53125	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0953506
M53125	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0990867
M53125	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09307833
M53125	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0988693
M53125	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08339693
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0998013
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0971126
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1116586
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1035012
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0953506
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1076437
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1076662
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.138901
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1005406
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.106597
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0934225
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.1094248

M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0941075
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1198471
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0937893
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0895336
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1078891
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.122659
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1144322
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0890379
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1136356
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1271871
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0982466
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0898903
M53125	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1256518
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0894014
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0953506
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1152477
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0939387
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08230764
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0926353
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08046042
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1189361
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0942613
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0927225
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1085633
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1343301
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1392295
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1531991
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0941029
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1002252
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1059299
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1076437
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1069352
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1181692
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10315191
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1378371
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07635551
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1204201
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0999342
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1177766
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1016888
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0923897
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0962334
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0900891
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0901967
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0965097
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1125808
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.10987
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1257317
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1507508
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0854732

M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.1467418
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0802813
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0967139
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1025789
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0951301
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0959041
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0939976
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0930493
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0759985
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0842141
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14091191
M53125	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.1076437
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1076813
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.097101
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.116365
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1014158
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1386334
M53125	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1437823
M53125	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0934804
M53125	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0995426
M53125	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1032036
M53125	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09535064
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.1248816
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.1121389
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.1026279
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1019982
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1062006
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0953506
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0988693
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09535064
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M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.123964
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0922301
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0953506
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M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08759982
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08453276
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1113892
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0871335
M53125	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0888067
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13417178
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12809329
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1130719
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1195119
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0930493
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10582456
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10581538
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.1104816
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1018838
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0974704

M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085605
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1060357
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1028244
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0861468
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0970032
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1214591
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1186637
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0953506
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1141539
M53125	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1076437
M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0953506
M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11088982
M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1310064
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M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0848052
M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1036879
M53125	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0975456
M53125	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09535068
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09535064
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0953506
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0970032
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1076437
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1038083
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1281789
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12976047
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1220806
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0863055
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11072751
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1547486
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1053651
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.105265
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1013285
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0917945
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.089063
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0854891
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1072923
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0953506
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M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0822282
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0972748
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.07905498
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1086564
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1342723
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0953506
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0909608
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16979018
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0988693
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1038083
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0946833

M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.1080075
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	-0.0916663
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	-0.0961524
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	-0.0909914
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	-0.1026279
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	0.0918512
M53125	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	0.09535064
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M53125	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.0963126
M53125	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1076437
M53125	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1076437
M53125	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1008045
M53125	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1207747
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0913992
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	-0.1276615
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0988693
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1180635
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1177693
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.127894
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1032036
M53125	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.09535064
M53127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08358086
M53127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0947634
M53127	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1202866
M53127	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11114811
M53127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10650726
M53127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.12878264
M53127	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.13000624
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08945491
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.1064876
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11137499
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08793378
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0829815
M53127	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18460803
M53127	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08255651
M53127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10727031
M53127	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.10136248
M53127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10644902
M53127	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15568631
M53156	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.19740422
M53156	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20577344
M53156	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18600017
M53156	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21563851
M53156	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18400525
M53156	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1955036
M53156	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1995494
M53156	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.17935979
M53156	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.2256633
M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25225329
M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2031389

M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1886551
M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2590918
M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1854315
M53156	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21923672
M53156	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1979437
M53156	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.18035552
M53156	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17764581
M53156	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25895113
M53156	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20901791
M53156	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.1958729
M53156	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.18255314
M53156	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.18633354
M53156	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21595416
M53156	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19039701
M53156	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1773884
M53158	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10603267
M53158	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09045765
M53158	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08743794
M53158	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.10211303
M53158	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09419708
M53158	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09178138
M53158	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.11167949
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.08912791
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1104902
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08845419
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1038474
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.120968
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08375088
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13129191
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09140861
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08627802
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14172029
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08957567
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08575743
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09810393
M53158	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12292396
M53158	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1084282
M53158	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0839858
M53158	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09191099
M53158	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08953659
M53158	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.0911996
M53158	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09689871
M53158	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09462058
M53158	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10528398
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09667561
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08575743
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.08461563
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09114112
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10774549
M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09741822

M53158	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08373672
M53158	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10639291
M53158	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0920388
M53158	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08547434
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.08461563
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09748191
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08526448
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08727944
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.09860271
M53158	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.08453079
M53158	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.09681686
M53158	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	0.08496735
M53158	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.10293532
M53158	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.08405154
M53163	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.231775
M53163	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2525475
M53163	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.245034
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2026176
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20063435
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24640896
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2551047
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2276076
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2025426
M53163	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28225969
M53163	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1950306
M53163	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2619081
M53163	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2245323
M53163	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2438486
M53165	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1848928
M53165	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1808973
M53165	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.181317
M53165	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18749681
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2603285
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1739666
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1797731
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1913462
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2204721
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2204721
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2084361
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1751949
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2554766
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22386058
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2204721
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1651686
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1856482
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18762851
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1837614
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1797731
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1751949
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18759381

M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1797731
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2106622
M53165	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2707597
M53165	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteri	-0.2801262
M53165	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1751949
M53165	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.1797731
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1984958
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__c	-0.2098021
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.16642464
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.175491
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1639779
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1805746
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__c	-0.1797731
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__c	-0.2317382
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18749681
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19260877
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.1751949
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.1745811
M53165	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1665157
M53165	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.1751949
M53165	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__f	-0.1843675
M53165	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.18325847
M53165	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.1797731
M53165	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.17627583
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2533159
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.2025541
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1751949
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2204721
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1812979
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2158243
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1937823
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2331822
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1841448
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.1931756
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.1828203
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1890906
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1684845
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21787294
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2315141
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2188987
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1733478
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2031565
M53165	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.171367
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1885268
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1751949
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2033142
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1875628
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1628931
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17972196
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1858974

M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.190104
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.1836733
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3324443
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2260734
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1848281
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1805674
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2204721
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2307937
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1725945
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17609218
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1809137
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1747144
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2037868
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2414273
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1860001
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1761523
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1747132
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2025636
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1715873
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.16353793
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2416018
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3717025
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3018209
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.349752
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2098651
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1825148
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2182322
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2070425
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.170063
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1780928
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1711658
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27751273
M53165	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.2204721
M53165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1938501
M53165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3009669
M53165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1959716
M53165	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3640526
M53165	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2018888
M53165	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.17519437
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2072098
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2052678
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1883492
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.22511
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1797731
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17519437
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18975172
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2098384
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.190518
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1751949

M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1712953
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.18892555
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.16475992
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2280694
M53165	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1767322
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16733737
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2170917
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.170063
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1747242
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17704383
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17700646
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.183922
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1660261
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1928863
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1665088
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1786068
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1797507
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2359251
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2204721
M53165	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.18861207
M53165	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1797872
M53165	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2062067
M53165	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1966184
M53165	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20067946
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17519437
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1797507
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2204721
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1750768
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2124001
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17683856
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2114246
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2444446
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2069915
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.179691
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1751949
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1642524
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18501129
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1762945
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1797731
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1750768
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1994592
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2330945
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1760866
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1816436
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1883492

M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18426612
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17519437
M53165	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1967374
M53165	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2204721
M53165	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2204721
M53165	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2035479
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.165268
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2154871
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1797731
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2062332
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2043605
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2529082
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2018888
M53165	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.17519437
M53172	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19856062
M53172	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.230934
M53172	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1733266
M53172	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2329929
M53172	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.19856062
M53172	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.25399192
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2292651
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1724925
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079457
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256545
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256545
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.178592
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2077208
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.224975
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23075766
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256545
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2189352
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25230367
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079457
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2077208
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079457
M53172	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1820472
M53172	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.25699294
M53172	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2077208
M53172	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.2079457
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2009214
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1867662
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2208926
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1666671
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2079457
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1667623
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25399192
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1812466
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23191801
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1943963
M53172	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2077208

M53172	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.1889437
M53172	genus	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.2077208
M53172	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.2003536
M53172	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.21933362
M53172	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2079457
M53172	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.19813944
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2166049
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2375687
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2077208
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2256545
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1960251
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1810191
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.1913446
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	-0.2215261
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2452738
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2387894
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1890699
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.1984785
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1838402
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2151436
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2035357
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2594966
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1844707
M53172	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1672039
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2077208
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2076096
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2277769
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22458905
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1970452
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20625992
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2053597
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3418471
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1903287
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2344751
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1905633
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1817313
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2256545
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1822191
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2669169
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1996009
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21329073
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2015276
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2539529
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1961686
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1826168
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2207155
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.259377
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2093043
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.1928086
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.2032043

M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22592928
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1741834
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.3451372
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2155129
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2163303
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2072998
M53172	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2256545
M53172	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.20383558
M53172	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2336448
M53172	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2301131
M53172	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1953268
M53172	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2160164
M53172	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1678938
M53172	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.20772111
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1977137
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2065271
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2122159
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2079457
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20772111
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23836473
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1858929
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2315304
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18044706
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.19780118
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2165218
M53172	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1916707
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1823912
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2013596
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18646778
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18646477
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2145866
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2186955
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2099859
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1930237
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2675526
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1876216
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1707589
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2344728
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1692677
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1694139
M53172	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2256545
M53172	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19141708
M53172	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2450388
M53172	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1736164
M53172	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2125819

M53172	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.2249624
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20772111
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2151409
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2256545
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1948208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21823124
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1644927
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2382726
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2333284
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2041176
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1746823
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.190799
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1869648
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.19856062
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2167076
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1923549
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2077208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23194619
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2079457
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1948208
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1737665
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1977702
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1825639
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.25033226
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20772111
M53172	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1646621
M53172	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2256545
M53172	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2256545
M53172	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2154767
M53172	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1744669
M53172	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2122558
M53172	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2121376
M53172	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.190542
M53172	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2079457
M53172	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1985294
M53172	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2134779
M53172	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.20772111
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32311586
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32609518
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22818989
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1761548
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22610197
M53176	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2106801
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.2149257
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2835867
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18875973
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.23041102
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3096749

M53176	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.42186399
M53176	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.24175371
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.30157661
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.33690456
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.22025614
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	0.26598749
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2954768
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.351804
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	0.27958614
M53176	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibac	0.26001914
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.19676379
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteri	-0.3191592
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21123463
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3386552
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23268297
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23433654
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.38950957
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.245133
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21299956
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.23578299
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.34036338
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19571415
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.24664736
M53176	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.33806691
M53176	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.29345989
M53176	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23606913
M53176	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.29975708
M53176	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyces	-0.376956
M53176	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.41866075
M53176	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21936649
M53176	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.17963263
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4460034
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1915428
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.230155
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2301149
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4201516
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3903168
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2150567
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.42340735
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3184268
M53176	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2199769
M53176	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2919293
M53176	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2645275
M53176	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.25206243
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22376904
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2373114
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3522982
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2741822
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1982281
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2455433

M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3370811
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20860108
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18978004
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2147156
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2945836
M53176	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.26869133
M53176	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.30208961
M53176	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.19697261
M53176	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2049818
M53214	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	0.17572024
M53214	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.17572024
M53214	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19750001
M53214	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2401442
M53214	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1858982
M53214	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19169588
M53214	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1794679
M53214	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2024403
M53214	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1719844
M53214	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1665864
M53214	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1751554
M53214	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1790703
M53214	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2064481
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2862507
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1858734
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1972752
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2274679
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.18454
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20905927
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19647237
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1913991
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1865961
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1754912
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1945569
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2408812
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1961394
M53214	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20756993
M53214	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2877439
M53214	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2017738
M53214	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	0.19099997
M53214	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2176219
M53214	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.17405085
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18400016
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17486144
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17482629
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19987243
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1916317
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17351871
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2686796
M53214	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1752006
M53214	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.19735733

M53214	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.18378314
M53214	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19142914
M53214	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.19008034
M53214	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.17572024
M53214	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1973284
M53215	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09389665
M53215	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.086039
M53215	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1045451
M53215	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0844994
M53215	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.106797
M53215	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0761787
M53215	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0864276
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1835857
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0859181
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2125645
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1059867
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09600278
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0844307
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1160681
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0818196
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1069979
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1110683
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1182817
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0870774
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0868426
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0961791
M53215	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0863224
M53215	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1083846
M53215	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1220207
M53215	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11692458
M53215	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1007573
M53215	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08959879
M53215	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08609847
M53215	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2539307
M53229	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1798692
M53229	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29076142
M53229	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.173123
M53229	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1789371
M53229	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3768412
M53229	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.21543842
M53229	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1746917
M53229	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1977524
M53229	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.26961093
M53229	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2478383
M53229	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.3501981
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2021693
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1791118
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2004563
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2186392
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1747698

M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1740195
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1728754
M53229	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1909766
M53229	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2181257
M53229	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1796669
M53229	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.24050189
M53229	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1919098
M53229	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2057881
M53229	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.17742711
M53229	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2183053
M53229	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.205034
M53229	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19197168
M53229	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2242552
M53229	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2073606
M53229	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2096355
M53229	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1811769
M53229	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2003879
M53230	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2086099
M53230	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2271889
M53230	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2775036
M53230	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2219913
M53230	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.19905765
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3503495
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2420264
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5128988
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3705307
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1952595
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24602314
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2120262
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.209855
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22319857
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3195031
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.197832
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2311915
M53230	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.38697214
M53230	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.2860749
M53230	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2778516
M53230	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2446817
M53230	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.45063206
M53230	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.5010076
M53231	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08077709
M53231	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0943581
M53231	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0846918
M53231	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1093034
M53231	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1012045
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2029311
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1395489
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08166645
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12145366
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.146025

M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.0848836
M53231	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11304351
M53231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0797096
M53231	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1288752
M53231	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.151578
M53231	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1035744
M53231	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0984396
M53232	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2823056
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29292995
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2751551
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25859491
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2816854
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.413661
M53232	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.35858098
M53232	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2521477
M53232	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.27901966
M53232	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2799389
M53232	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.4449625
M53232	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2411708
M53232	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.611536
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3214064
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.4051645
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.27809667
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.25936781
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2655145
M53232	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.3870353
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3137804
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2648774
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28345306
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2957514
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.227836
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.3068967
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2802542
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2258668
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2797782
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3660533
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2705547
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3418059
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2432274
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27515699
M53232	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2418459
M53232	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.29321824
M53232	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2858694
M53232	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.3076057
M53232	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3203482
M53232	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39935446
M53232	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.26596165
M53232	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3717329
M53232	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4316832
M53232	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.25859491

M53232	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2853105
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2702522
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.34996338
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22443265
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.34512429
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3706127
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.33104198
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21998586
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.30102648
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.33845183
M53232	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2259039
M53232	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.23396131
M53232	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24782736
M53232	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.26172104
M53232	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2510645
M53232	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.27236187
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.4034563
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.3147012
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23651138
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.30828045
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23021468
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.30585712
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.27752198
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.31923147
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2524291
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.26166616
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23839317
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21922839
M53232	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.30260018
M53232	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.458478
M53232	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.251092
M53237	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.110769
M53237	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1462017
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1556196
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0845676
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14283145
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10539304
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17634384
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2010151
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1149871
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17832735
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1810638
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08910622
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0775724
M53237	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20759776
M53237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0957323
M53237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1041075
M53237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1235479
M53237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.0818504
M53237	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1462048

M53237	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09058741
M53237	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0861323
M53237	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0903683
M53237	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.098274
M53237	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17386483
M53237	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1140174
M54676	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.13699714
M54676	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08651229
M54676	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_(	0.100683
M54676	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_(	0.10500162
M54676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1117687
M54676	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1048178
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09630914
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09113196
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0826453
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.086829
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0988703
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1198303
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2440951
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.19018659
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0876143
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08366406
M54676	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2717153
M54676	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10275512
M54676	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0856404
M54676	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08282522
M54676	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08601677
M54676	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0892859
M54676	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.25759
M54676	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.14828765
M54687	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_(	-0.1012424
M54687	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_f	-0.0879537
M54687	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.08571273
M54687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10526626
M54687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09840929
M54687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08600701
M54687	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0947249
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1412644
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1277435
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2408236
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0966801
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12025178
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0891779
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08410959
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10027755
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.119116
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14283986
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08267525
M54687	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16151934
M54687	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1005501

M54687	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1205917
M54687	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09976479
M54687	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08358519
M54687	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1024622
M54687	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13456593
M54687	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1913317
M54701	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1896223
M54701	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2668985
M54701	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.19634303
M54701	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2306318
M54701	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18813516
M54701	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1927488
M54704	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12021582
M54704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	(-0.1630111
M54704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	f -0.083607
M54704	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	f -0.1171828
M54704	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0894196
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1310543
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2292096
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3130569
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1717456
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11654451
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08225042
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1064432
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11728849
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1903742
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1801768
M54704	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08387188
M54704	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1317585
M54704	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1485841
M54704	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0950015
M54704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0885331
M54704	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1229352
M54704	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0840862
M54704	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.0846747
M54704	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1118541
M54704	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1214563
M54705	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2022986
M54705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	f 0.21583276
M54705	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	f -0.1853814
M54705	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2069931
M54705	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.207795
M54705	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1944318
M54705	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22311391
M54723	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09506517
M54723	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10089267
M54723	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	(0.16463275
M54723	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08067788
M54723	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08017982
M54723	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1168972

M54723	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turciba	-0.1014168
M54723	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.0934592
M54723	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.07931485
M54723	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.101289
M54723	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0767873
M54723	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.11769589
M54723	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.1238798
M54723	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08088557
M54723	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1021972
M54831	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0821621
M54831	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0889521
M54831	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09298515
M54831	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08557329
M54831	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.09933001
M54831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1029957
M54831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12902071
M54831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14672877
M54831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0910713
M54831	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12648856
M54831	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17387968
M54831	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09150211
M54831	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0844195
M54831	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09139967
M54831	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.160785
M54831	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08861245
M54832	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0902097
M54832	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1052925
M54832	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1090829
M54832	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0792932
M54832	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0914447
M54832	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0847763
M54832	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	-0.0908811
M54832	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0910269
M54832	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0869637
M54832	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0770841
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0780603
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0928013
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13118009
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0938634
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0828149
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0963517
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12580838
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0840819
M54832	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0883264
M54832	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1025438
M54832	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0801561
M54832	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0873605
M54832	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.0965668
M54832	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0879546
M54832	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0911828

M54832	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09375644
M54832	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0911828
M54832	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.081826
M54834	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0848918
M54834	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1023493
M54834	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09510373
M54834	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08902879
M54834	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.09674427
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0783777
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1114361
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08655263
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12913428
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15925055
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0984082
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1000876
M54834	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13851229
M54834	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.077001
M54834	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17086698
M54834	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07914314
M54834	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08913716
M54834	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850053
M54834	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09203093
M54834	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17818892
M54834	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.08162029
M54837	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2410524
M54837	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.24510894
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3339441
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2486306
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18142664
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18447608
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23995534
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19740998
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17510244
M54837	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21062279
M54837	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.31735767
M54837	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.19101541
M54837	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2037043
M54838	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3101521
M54838	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1884745
M54838	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2382666
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3581641
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2213155
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4832088
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.4075531
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.201945
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2982371
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3310583
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2223997
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1988215
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2389056

M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2469197
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25637847
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1917488
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2452112
M54838	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.33225733
M54838	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1996258
M54838	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.244005
M54838	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.3241719
M54838	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2468697
M54838	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3225886
M54838	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.19928124
M54838	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3343447
M54839	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1170142
M54839	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0862513
M54839	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0797131
M54839	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.084193
M54839	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11198131
M54839	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08790562
M54839	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.127139
M54839	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0883475
M54839	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0898425
M54839	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1027229
M54839	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.1218061
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1048885
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1167716
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0930429
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0823173
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.07782592
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1473685
M54839	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.19775
M54839	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1019096
M54839	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1440847
M54839	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0854646
M54839	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1256797
M54839	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1117206
M54841	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08719217
M54841	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1183651
M54841	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09372226
M54841	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0934818
M54841	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0938707
M54841	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10099983
M54841	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.08016197
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09326022
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09401951
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08345147
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10059641
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08225407
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09048305
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07832155
M54841	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07907678

M54841	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	0.08858209
M54841	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichaceae	0.08467938
M54841	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	0.09157884
M54841	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae	0.09052855
M54841	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfosphaeriales.f__Desulfosphaeraceae	0.09191916
M54841	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriaceae	0.08710334
M54841	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae	0.09850931
M54841	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	-0.0916832
M54841	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	0.08657278
M54841	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__Anaeroplasmataceae	0.09001611
M54857	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales.f__Nitrososphaeraceae	-0.0810262
M54857	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobiales.f__Methanohalobium	0.08625749
M54857	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobiales.f__Methanohalobium	0.0940952
M54857	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae	-0.0810262
M54857	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__Solibacteraceae	-0.0916853
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08536035
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08955342
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08248631
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08248631
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.13788551
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08554403
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08376006
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.1024378
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08248631
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.0884723
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0914593
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.10504647
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08955342
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08554403
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0912552
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	-0.0864349
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetaceae	0.08955342
M54857	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__Bifidobacteriaceae	0.10221696
M54857	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriaceae	0.10585767
M54857	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__Solirubrobacteriaceae	0.08554403
M54857	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales.f__Fimbriimonadaceae	0.08955342
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.09025117
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.08426469
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.11753667
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.09751838
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae	0.07890488
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae	0.08955342
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae	0.11554069
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae	0.08763295
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	-0.0916853
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	0.11437328
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	0.08953151
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae	0.07657352
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospiraceae	0.10688366
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospiraceae	0.08554403

M54857	genus	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.0918461
M54857	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09846591
M54857	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.08554403
M54857	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	0.08756892
M54857	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.0807777
M54857	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.08955342
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.17999957
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.10263643
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.08633577
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	0.09192051
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08554403
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.08248631
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.09269784
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.11499087
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.08603782
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.086478
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.10059617
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	0.09320066
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.10747814
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09458461
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09822378
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08357807
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0897257
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.13335707
M54857	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10020391
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.11178562
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.08554403
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.0825028
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.15558286
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08029838
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0934138
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07865508
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.11926
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09876166
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08920488
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.11141343
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08066109
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14786428
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.11569378
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.08277376
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.1049172
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1081776
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08248631
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08253075
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08360967
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1019406
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.085975
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11083069
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15826926
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.0862029

M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08101835
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09128998
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0812302
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12613958
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12839376
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13698859
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.11492308
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08179929
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08924967
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08772864
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10423199
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0959244
M54857	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.08248631
M54857	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.11150421
M54857	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08745604
M54857	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.12790419
M54857	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.085544
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.12562377
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.11892898
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08713962
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08955342
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.085544
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.13428059
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0824504
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0979404
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08786482
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10539464
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09217316
M54857	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09241346
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0940606
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0942565
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10943573
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08772864
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0907385
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.090743
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08682119
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07996553
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07880104
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08098306
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.10142194
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11081622
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08402704
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.09169608
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.09597272
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08842562
M54857	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08248631

M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.09657358
M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1005854
M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.14587325
M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.12351614
M54857	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.09549826
M54857	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1244531
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.085544
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08993385
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.10142194
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.08248631
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10296012
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0803256
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10888639
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0920686
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08285967
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08713932
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09798488
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12179733
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.07988051
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09766752
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0810262
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.09803039
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08149187
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08554403
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08262094
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1169327
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08955342
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.10346468
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.1234485
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.11252623
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.0930463
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.11892898
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0903127
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.085544
M54857	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.10376826
M54857	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.08248631
M54857	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dc	0.08248631
M54857	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.10642341
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.08350043
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.14987045
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.08955342
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.11772901
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.11719636
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.12429536
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.12790419
M54857	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.085544
M54859	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1106103

M54859	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1016689
M54859	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0822584
M54859	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0999838
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1239136
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1244173
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1003012
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1171632
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1132341
M54859	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0923017
M54859	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1306328
M54859	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1099022
M54859	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0845737
M54859	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0912747
M54859	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0890534
M54859	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1756699
M54859	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10652296
M54859	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1042289
M54859	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1009176
M54860	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.106597
M54860	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0994387
M54860	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1055584
M54860	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0843303
M54860	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0864106
M54860	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.0833523
M54860	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0941596
M54860	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0927715
M54860	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0875451
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1115774
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0953618
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1408142
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0879957
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.10373
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1043494
M54860	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.08655
M54860	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1344716
M54860	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09012452
M54860	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08596198
M54860	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1985205
M54860	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10300585
M54860	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1085976
M54860	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1379557
M54881	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.162646
M54881	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17316883
M54881	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18174839
M54881	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.17835667
M54881	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2246411
M54881	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1807611
M54881	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.20690715
M54881	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2130322
M54881	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3617441

M54881	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3755817
M54881	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1651072
M54881	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18203858
M54881	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2966862
M54881	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.162654
M54882	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.18656611
M54882	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.19280426
M54882	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2081905
M54882	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.19581104
M54882	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.23596684
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5414938
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4297165
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1825474
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25143486
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21989375
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.20596116
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.17813081
M54882	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21971368
M54882	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.23323185
M54882	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2528465
M54882	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19433799
M54882	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2365541
M54883	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.08951386
M54883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09954821
M54883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.123421
M54883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0811555
M54883	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08196959
M54883	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09451669
M54883	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0949187
M54883	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08860123
M54883	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.12059049
M54883	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08000639
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.17453925
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.10469621
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.07818334
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08727433
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09243924
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08969504
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0850381
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.11156463
M54883	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10227872
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.09690371
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.0784004
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.14029074
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0793682
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.07812348
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09489104
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11038097
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.09028615
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.07954986

M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10323622
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09011318
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08116107
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12570844
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08972384
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09661636
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10091035
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10865333
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.09040523
M54883	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0929356
M54883	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.12197031
M54883	genus	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.10917338
M54883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1031172
M54883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09751312
M54883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.11334814
M54883	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08170218
M54883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0917302
M54883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0776976
M54883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08152882
M54883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.07998608
M54883	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.111282
M54883	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.088852
M54883	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0774348
M54883	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.13295804
M54883	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.12977285
M54883	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0923659
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08781569
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.07998608
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.11093716
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09686701
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.07873708
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09533689
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1195255
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0921842
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.09928201
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09289503
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09751312
M54883	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08179145
M54883	genus	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.13183938
M54883	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09260219
M54883	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09150113
M54883	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09543652
M54883	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.10917338
M54887	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.314609
M54887	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2877391
M54887	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.292232
M54887	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.314609
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2913165
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2932351
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.40168734

M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.54214452
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4490504
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3732072
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2925901
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.38193944
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3864243
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.48237913
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4033785
M54887	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2771481
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.32328759
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.7998941
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3248848
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28378305
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2953341
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.344331
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3933262
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.49292475
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3386918
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.50929271
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.6891242
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.73488608
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.68124575
M54887	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.39552029
M54887	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.55543081
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.57331332
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.46916809
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.69540599
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.5378709
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.8150444
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.34782689
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.28136803
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.27313457
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.61589919
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.3705339
M54887	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.53968263
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.6839337
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.5989575
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2974788
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.7656611
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.36323472
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.8898588
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37423339
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2600618
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3023744
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4068448
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.34917907
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.32925154
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.3619296
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.59452282
M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3470841

M54887	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.42851833
M54887	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.39108454
M54887	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.49522521
M54887	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.8733164
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.8744647
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4709575
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.52589029
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3190788
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.3095071
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.4490504
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.36804196
M54887	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.42770103
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.6725325
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3305979
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4630922
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5206361
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.32425
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3242523
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.7010901
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.9113613
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.6280133
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.86384307
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.9324951
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3539469
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.6155167
M54887	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.47713411
M54887	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.568533
M54887	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3532654
M54887	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3431175
M54887	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.5904156
M54887	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3888119
M54887	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.3105009
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.52115671
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3539469
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.7013716
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.6652039
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.5544596
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3937497
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.383698
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.5158587
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.26508146
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.7660994
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.36250388
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3765356
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4937567
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.50246886
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.35939917
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.314609
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4784453
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.6365804

M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.4217842
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3620206
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.6616646
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.68326776
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.7355603
M54887	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3390049
M54887	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.45070238
M54887	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.37793875
M54887	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.4348433
M54891	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22341328
M54891	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24578586
M54891	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2127181
M54891	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2195798
M54891	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.17396947
M54891	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.17721514
M54891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.28041219
M54891	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18418005
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19346803
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1822324
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1910279
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1953114
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1878047
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2033524
M54891	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.16800053
M54891	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1874268
M54891	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.218028
M54891	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2153766
M54891	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17741679
M54891	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.24578586
M54891	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2037835
M54891	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.17015
M54891	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17169577
M54891	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1792617
M54891	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.21641016
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.17451178
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.19322786
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1827162
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16803015
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21989237
M54891	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2080947
M54891	genus	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1668336
M54891	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2048486
M54892	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23101629
M54892	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2376068
M54892	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2269625
M54892	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1982254
M54892	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	-0.1968632
M54892	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2072551
M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1906502
M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2690943

M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2834122
M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2539367
M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1993452
M54892	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24377503
M54892	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2511377
M54892	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2222195
M54892	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2061439
M54892	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2049136
M54892	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2108859
M54892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2006864
M54892	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19034079
M54892	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3128872
M54893	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1809602
M54893	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22677835
M54893	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2284724
M54893	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2265218
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1969238
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18161295
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21307083
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2145556
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2701859
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2242902
M54893	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24531805
M54893	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.31407317
M54893	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.2175367
M54893	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__	-0.1918421
M54893	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1857158
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2913644
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21607306
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19766285
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2554017
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2464041
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.2640674
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.18933863
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19755119
M54893	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3238455
M54893	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2423364
M54893	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.30232629
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2130345
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2452408
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2042176
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23829294
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2196334
M54893	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1965368
M54893	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1859505
M54893	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1878004
M54893	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2627249
M54893	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21420959
M54893	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2290191
M54896	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2720214

M54896	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1986956
M54896	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29631127
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1893296
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3156126
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2309943
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2438163
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3554071
M54896	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27430109
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.32362178
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.24918668
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.26810726
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.3223868
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3651869
M54896	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.2229394
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2367283
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.4004559
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23764888
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1910734
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1954706
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2120953
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3063896
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20115289
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.21423553
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.201683
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28014233
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.234388
M54896	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2984921
M54896	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.34329753
M54896	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2356664
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2291431
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1867138
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2802561
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2922657
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2507556
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.36352031
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2154467
M54896	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2857111
M54896	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2711809
M54896	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.20155
M54896	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20941497
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2256069
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1976481
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2313194
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1967975
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2889931
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3297369
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.29891923
M54896	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2358649
M54896	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2983815
M54896	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.22367

M54897	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera.f__Methanohalobium.g__Methanohalobium	-0.267836
M54897	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacterium	-0.2248511
M54897	genus	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.2245873
M54897	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.267836
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.230562
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.46949266
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.51627945
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.3821887
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2795827
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2309907
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.29903735
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.334531
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.41617054
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.3914371
M54897	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2330785
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.7071677
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.3922948
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	0.21589566
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.2594726
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroides	-0.2960247
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophaga	0.38351437
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2631288
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.35463222
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.6343928
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.66402529
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirae	0.46564976
M54897	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.27382477
M54897	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.48563166
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.43371443
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacillus	-0.2367023
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__Listeria	0.32050765
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.g__Planococcus	0.60410623
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__Staphylococcus	0.26521874
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae.g__Gemella	-0.5293767
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcus	-0.6914356
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcus	0.32009949
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.2324535
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.49415537
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostoc	-0.286983
M54897	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcus	0.23773057
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobium	-0.6129623
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.5410444
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	-0.2184959
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalococcoides	-0.2620938
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.7530224
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.30544416
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	-0.7945296
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.39829174
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	0.2632062
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillum	-0.2558088

M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22082774
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3081113
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2452825
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.4535526
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.33994797
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.35220953
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.44329919
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.49383038
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24026848
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.3746257
M54897	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.234624
M54897	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.33978997
M54897	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.2212753
M54897	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.45103548
M54897	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.7443833
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.77279058
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.4493508
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.45555352
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2472559
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.23298729
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2459264
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.3821887
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.28372206
M54897	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.36662905
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4902444
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3029334
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25414083
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4453923
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4317726
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2954012
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2953575
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.6075819
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.8288428
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5292284
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.7794493
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.8365128
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2464364
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3294272
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.29647244
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.5745887
M54897	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.37198079
M54897	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.6013334
M54897	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3192794
M54897	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.286399
M54897	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.4924139
M54897	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2863782
M54897	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2313774
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.47433855
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26410005
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3294272

M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5671666
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.6094474
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4637243
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3575078
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3034062
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3664076
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4654072
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.68356
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.35862301
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2969227
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.4118438
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.38556855
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.26374123
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.267836
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4500526
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.4054738
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3210925
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5357347
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.62851425
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.6819104
M54897	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2516838
M54897	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.44488526
M54897	genus	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.35872566
M54897	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3766139
M54897	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2363517
M54898	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2712373
M54898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2953169
M54898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28263469
M54898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2356818
M54898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3330177
M54898	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.29474679
M54898	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.2645456
M54898	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.27972769
M54898	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26312801
M54898	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3671403
M54899	genus	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2657528
M54899	genus	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.17696024
M54899	genus	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2657528
M54899	genus	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1812933
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1790772
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30321995
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178901
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.188059
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24046364
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22009295
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20451941
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1887477
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26410445
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178901
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22009295

M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30821175
M54899	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178901
M54899	genus	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.22009295
M54899	genus	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.21178901
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18839189
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2615839
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17506554
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18351411
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.19846223
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17897503
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24419223
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22257125
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3117254
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21178901
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.33161674
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1812933
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.28668996
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.193828
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.40108751
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2298533
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.33014052
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.22009295
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.22184508
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.20301196
M54899	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.21725594
M54899	genus	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.22009295
M54899	genus	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__f	0.20150754
M54899	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	-0.2211924
M54899	genus	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.21178901
M54899	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.19944211
M54899	genus	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	-0.2336889
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.34134036
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g	0.18517775
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.22009295
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.21336423
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.18603509
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.1993648
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.20880192
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2931345
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.23808395
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.20981225
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.2424492
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.28082212
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.2618484
M54899	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.25447993
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.22009295
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2088605
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22474054
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1959006
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19559447

M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2289628
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33554956
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19303091
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29858638
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26419014
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3078866
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26258682
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27243099
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25942925
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M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18891492
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M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.24972774
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M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19570417
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.32857456
M54899	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26534779
M54899	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18796212
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M54899	genus	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.28602595
M54899	genus	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.34913392
M54899	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2200927
M54899	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2605909
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.19265922
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.36189618
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22009295
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M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22009295
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M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.188059
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.25799213
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.27557137
M54899	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.22979377
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M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3004649
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M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3428758
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3349892
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22769844
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.37624845

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M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.25958764
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.18548205
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22009295
M54899	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.32773341
M54899	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.22009295
M54899	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2050898
M54899	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2975296
M54899	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.21912313
M54899	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23350809
M54899	genus	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1958079
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2200927
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.30177282
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.21202069
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.22009295
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21945555
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3186187
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2013381
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3167955
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.21332836
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2477731
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1876258
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2107405
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.22009295
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.3390111
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.23294278
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2657528
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.21005972
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22009295
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2243966
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21178901
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21945555
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.17481236
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.2123272
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.24264486
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.19265922
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1941693
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2200927
M54899	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.17727092
M54899	genus	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f	0.32750936
M54899	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f	0.19384376
M54899	genus	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f	0.18438909
M54899	genus	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21178901
M54899	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2093919
M54899	genus	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2200927
M54901	genus	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25603472
M54901	genus	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2113754
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f_I	-0.2636782

M54901	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2172705
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2241141
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2087945
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3792916
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30620953
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.21819733
M54901	genus	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18882242
M54901	genus	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22359786
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.2673011
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g	0.21468859
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.38161621
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1989049
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3520924
M54901	genus	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.38493286
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1924946
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19943414
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.348885
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19258502
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2573778
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.3268862
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2781361
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.23531593
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2020191
M54901	genus	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27232523
M54901	genus	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1888333
M54901	genus	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.3175636
M54901	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.43678226
M54901	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2082992
M54901	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19344986
M54901	genus	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.22728434
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.21015
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1978998
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2357773
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2961468
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3078068
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.31351739
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2861632
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.26691957
M54901	genus	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2521716
M54901	genus	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1889879
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20490176
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2175397
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2516965
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.29388736
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2456608
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.27461077
M54901	genus	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1960368
M54901	genus	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2417184
M00053	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0865772
M00053	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0864533

M00053	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1109088
M00053	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1326298
M00053	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09534432
M00053	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.222294
M00053	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1845818
M00053	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13083186
M00053	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13827013
M00053	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09444213
M00053	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.135151
M00053	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1020056
M00053	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0945249
M00053	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09858278
M00053	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1137717
M00053	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1336704
M00053	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.093165
M00053	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.144194
M00054	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1091817
M00054	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07522033
M00054	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1032454
M00054	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1151985
M00054	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea	-0.105019
M00054	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11083094
M00054	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08259845
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2916167
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2341551
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0950135
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1026679
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1388867
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1119797
M00054	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0832875
M00054	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07326941
M00054	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2078684
M00054	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1170106
M00054	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1092046
M00054	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0975934
M00054	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13635862
M00054	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1212468
M00054	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0784676
M00054	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1625976
M00054	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1019984
M00055	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0889512
M00055	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.126497
M00055	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09645575
M00055	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2045107
M00055	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1257603
M00055	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15341163
M00055	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0902051
M00055	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09642096
M00055	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08692799
M00055	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0779782

M00055	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12698559
M00055	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.09907224
M00055	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1109178
M00056	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1069394
M00056	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.14327095
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2277622
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2233844
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0856785
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12550512
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1072498
M00056	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11920523
M00056	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12463627
M00056	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.11962317
M00056	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0919553
M00056	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1214815
M00057	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1164967
M00057	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.0914081
M00057	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1880103
M00057	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1241708
M00057	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0862109
M00057	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16946243
M00057	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1355645
M00057	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10052296
M00057	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1422814
M00057	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08898679
M00057	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1134684
M00057	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0796991
M00058	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0812688
M00058	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08647591
M00058	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1040744
M00058	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.1336393
M00058	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1454022
M00058	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.095048
M00058	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11179116
M00058	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1271907
M00058	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0920147
M00058	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1021073
M00058	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11286082
M00058	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1037734
M00058	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0960264
M00059	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0750333
M00059	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0771577
M00059	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1318747
M00059	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.08294145
M00059	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0959654
M00059	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08736322
M00059	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09180926
M00059	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.07336861
M00059	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.13258641
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2523559

M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.223003
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0933427
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0999939
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0753078
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14455919
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0735949
M00059	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07975808
M00059	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08723701
M00059	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1672629
M00059	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1020289
M00059	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1201492
M00059	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.098156
M00059	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12374727
M00059	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1153574
M00059	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0912328
M00059	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1263775
M00059	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1072974
M00060	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0987222
M00060	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10587423
M00060	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08040965
M00060	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0793481
M00060	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.110054
M00060	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.13012764
M00060	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2140312
M00060	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1357566
M00060	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0891376
M00060	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12620575
M00060	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0920534
M00060	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1371335
M00060	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0888717
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M00060	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12207092
M00060	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1254092
M00060	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.077296
M00060	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1108715
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M00063	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10477425
M00063	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10263802
M00063	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1152884
M00063	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15550768
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M00063	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0996828
M00063	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10502315
M00063	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08064532
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M00064	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10991675
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M00064	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1047951
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M00485	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1407537
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M00485	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1043632
M00485	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1129013
M00512	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1441633
M00512	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0801053
M00512	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea	-0.0814823
M00512	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09495735
M00512	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10676948
M00512	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.11355609
M00512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.188414
M00512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1361328
M00512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16735754
M00512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14825909
M00512	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1170471
M00512	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1405912
M00512	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1106216
M00512	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2185376
M00512	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15418031
M00512	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1464946
M00512	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1186426
M00513	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10064201
M00513	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12089908
M00513	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0818997
M00513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1081467
M00513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.0850983
M00513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1039168
M00513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1248662
M00513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1193204
M00513	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10745086
M00513	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.092849
M00513	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.11056177
M00513	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.082324
M00514	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1540152
M00514	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0887713
M00514	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0986433

M00514	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07936106
M00514	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1180923
M00514	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08538206
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2651837
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.139179
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1305004
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1853424
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0974084
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0916511
M00514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12946279
M00514	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0923984
M00514	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1397487
M00514	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2063172
M00514	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2732987
M00514	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.07934951
M00514	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1546599
M00527	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07783479
M00527	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0824561
M00527	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07903455
M00527	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1059864
M00527	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0806213
M00527	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.18072443
M00527	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10876032
M00527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2054849
M00527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1012613
M00527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0896161
M00527	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07911596
M00527	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0798074
M00527	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11664944
M00527	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1010659
M00528	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08423798
M00528	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07755358
M00528	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07927298
M00528	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08581912
M00528	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08006879
M00528	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1149967
M00528	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1358277
M00528	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08609799
M00528	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09879482
M00531	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.096365
M00531	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1072785
M00531	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0830811
M00531	family	k__Bacteria.p__Bacteroidetes.c__Saprosiprae.o__Saprosiprales.f__S	0.09834832
M00531	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07981016
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2012373
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1435356
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0988318
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1158315
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0894283
M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1107831

M00531	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13137837
M00531	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09548803
M00531	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.104236
M00531	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08153093
M00531	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08756227
M00531	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.08838128
M00531	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0892973
M00531	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15056739
M00531	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0857116
M00531	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1043148
M00533	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1942155
M00533	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2080156
M00533	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.196288
M00533	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2557212
M00533	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.283369
M00533	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1875166
M00533	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__J	-0.2125701
M00533	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.29541423
M00533	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.1911582
M00533	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.35058277
M00533	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.203454
M00533	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2887546
M00533	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3691562
M00533	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1822191
M00533	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1678614
M00533	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1987252
M00533	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1971909
M00533	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1780828
M00533	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.24902643
M00533	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3849926
M00533	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23269331
M00533	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.26269499
M00533	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2486584
M00533	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2091245
M00533	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.29734
M00533	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.21698491
M00533	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2109366
M00533	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2832601
M00533	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1938509
M00533	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.217938
M00533	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1897289
M00537	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0944684
M00537	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846932
M00537	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08568083
M00537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1050588
M00537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1005055
M00537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10515286
M00537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1042882
M00537	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2156233
M00537	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1034431

M00537	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__	-0.0884163
M00537	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0880348
M00537	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales.f__	-0.0996528
M00537	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0906374
M00537	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1441962
M00541	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09176378
M00541	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.09252758
M00541	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.094901
M00541	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.137745
M00541	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.1419737
M00541	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellales.f__	0.13050082
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M00541	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.2148257
M00541	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1100904
M00541	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales.f__	0.08457974
M00541	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae.f__	-0.1339199
M00541	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.0958469
M00541	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__	0.10544338
M00541	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.10723799
M00541	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1094413
M00541	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.1369778
M00542	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.15685151
M00542	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.1566186
M00542	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.12597552
M00542	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.16752877
M00542	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	0.10348791
M00542	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.f__	0.11365559
M00542	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__	0.1035122
M00542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__	-0.0937103
M00542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	0.09089902
M00542	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	-0.1558049
M00542	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales.f__	-0.1090061
M00542	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	0.0933745
M00542	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__	0.09795389
M00542	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__	0.17206815
M00542	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales.f__	0.11386779
M00542	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1090631
M00542	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41.f__RF	-0.0916989
M00554	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	-0.1418544
M00554	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1142083
M00554	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.0794883
M00554	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae.f__	0.12887378
M00554	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales.f__	0.09742616
M00554	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales.f__	-0.1770917
M00554	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.15849717
M00554	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.18240607
M00554	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.1368692
M00554	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	-0.0903281
M00554	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.078829
M00554	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.17359244

M00555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1026806
M00555	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0992503
M00555	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.1268971
M00555	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0928618
M00555	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.11834647
M00555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0945672
M00555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12607443
M00555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15234844
M00555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0915504
M00555	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10402163
M00555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1089307
M00555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13879085
M00555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1090302
M00555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10909246
M00555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1020612
M00555	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.08954567
M00555	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	0.10607081
M00566	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.12106376
M00566	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0880203
M00566	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.0966072
M00566	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0807563
M00566	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0904301
M00568	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.10886398
M00568	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08961111
M00568	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1261483
M00568	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13749137
M00568	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1027648
M00568	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.082105
M00568	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1002491
M00568	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1106401
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.28949722
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.2061487
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.16246453
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.17835823
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1267006
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.13625043
M00568	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1440551
M00568	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09326205
M00568	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2962611
M00568	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0844564
M00568	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.11196779
M00568	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.20936147
M00569	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1689834
M00569	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.098201
M00569	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.11533593
M00573	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1060085
M00573	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1110974
M00573	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1218885
M00573	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1470996
M00573	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1797214

M00573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1008557
M00573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09963446
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3083934
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1116104
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2362409
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1755955
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2402649
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1326491
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0919494
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1049853
M00573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1325886
M00573	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0874947
M00573	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1055554
M00573	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0873951
M00573	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1048075
M00573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.087007
M00573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1015092
M00573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2379844
M00573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21649459
M00573	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0886409
M00573	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1690455
M00573	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1665574
M00575	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07783057
M00575	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0856587
M00575	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11120601
M00575	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0901553
M00575	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1060598
M00575	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.09007075
M00575	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07976216
M00575	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1838262
M00575	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1269075
M00575	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1326119
M00575	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1481692
M00575	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0976277
M00575	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08919281
M00575	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11056052
M00575	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.10364204
M00575	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1181478
M00575	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09605868
M00575	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16689132
M00575	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.09612542
M00575	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1180412
M00587	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1032828
M00587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.08561576
M00587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.09071
M00587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0951551
M00587	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1064359
M00587	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09280344
M00587	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1672547
M00587	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.0893766

M00594	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08190584
M00594	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1022931
M00594	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.0858198
M00594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08190584
M00594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.077364
M00594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0926209
M00594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0913722
M00594	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1407912
M00594	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0844885
M00594	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0879728
M00594	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0792118
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0800607
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2040795
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0887014
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.152045
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0888839
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1782921
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1187337
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1099316
M00594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1024463
M00594	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0809381
M00594	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1033737
M00594	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09163736
M00594	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1044813
M00594	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0866499
M00594	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1009712
M00594	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08190584
M00594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0997802
M00594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0903917
M00594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08443497
M00594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0828137
M00594	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1078243
M00594	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1629391
M00594	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0799889
M00594	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0886471
M00598	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.0976595
M00598	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1271008
M00598	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.0904762
M00598	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0787156
M00598	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__E	-0.10255
M00598	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0943492
M00598	family	k__Bacteria.p__Bacteroidetes.c__Saprosphaerae.o__Saprosphaerales.f__	-0.0961879
M00598	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.12032
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M00598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1128461
M00598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1018312
M00598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1720952
M00598	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.09573
M00598	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0882215
M00598	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0884068

M00598	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0840964
M00598	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1013368
M00598	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2257002
M00598	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10396816
M00598	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0878003
M00598	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0790749
M00598	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1030446
M00601	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.1235982
M00601	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1067071
M00601	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1586655
M00601	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0907896
M00601	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1143209
M00601	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.08737
M00604	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1325657
M00604	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.0921152
M00604	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1462864
M00604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0847667
M00604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0789678
M00604	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1422834
M00604	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1377009
M00604	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10653979
M00604	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2173292
M00604	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1025497
M00604	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0886159
M00604	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2580709
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M00604	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1144239
M00604	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0845614
M00604	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1302331
M00604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0882916
M00604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1147062
M00604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09231158
M00604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0864282
M00604	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1448872
M00604	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0852024
M00604	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1946629
M00604	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0977613
M00604	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0938667
M00604	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0819903
M00605	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0916991
M00605	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.129452
M00605	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790622
M00605	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1029539
M00605	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1307625
M00605	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1238926
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M00605	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0889048
M00605	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0863441

M00605	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0914262
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0972716
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2911864
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1442878
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1308895
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.15071
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0990317
M00605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1166916
M00605	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0856204
M00605	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1401182
M00605	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1135378
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M00605	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0916464
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M00606	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0808978
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M00606	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07556097
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M00607	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1138671
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M00607	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1150969
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M01105	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1061995
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M01105	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0759637
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M01105	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1492978
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M01110	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0872531
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M01110	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10772963
M01110	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11067396
M01110	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1704966
M01114	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.093634
M01114	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.0827311
M01114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1231381
M01114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11359248
M01114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.08493903
M01114	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08826531
M01114	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1971278
M01114	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0844637
M01114	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0887022
M01114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1393457
M01114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11068151
M01114	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1609609
M01118	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0846826
M01118	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1079381
M01118	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.09000458
M01118	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09125159
M01118	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.10828164

M01121	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1027649
M01121	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0951671
M01121	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turicib	-0.0968718
M01121	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1345732
M01121	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.12538137
M01121	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09884554
M01121	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1012482
M01121	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08284966
M01121	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.0947238
M01121	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0891042
M01123	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09130891
M01123	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0966417
M01123	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0967969
M01123	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08406964
M01123	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09130891
M01123	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837307
M01123	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2063732
M01123	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1001611
M01123	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10888052
M01123	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0819203
M01123	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0835931
M01123	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0785717
M01123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1154895
M01123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0888211
M01123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0898585
M01123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0995026
M01123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0806503
M01123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0971983
M01123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.185576
M01123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0973201
M01123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1337908
M01123	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08507246
M01123	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0815874
M01123	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0838545
M01123	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1185587
M01123	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0870662
M01123	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09166465
M01123	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09130891
M01123	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09083754
M01123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1101927
M01123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1081587
M01123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0845315
M01123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0913791
M01123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08124455
M01123	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08357654
M01123	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1040879
M01124	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.0916195
M01124	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0840087
M01124	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.088975
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0902699

M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0843981
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0934458
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1360027
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.16411757
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1013025
M01124	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.16736683
M01124	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	0.09225022
M01124	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1363478
M01124	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0846323
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1423
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0850081
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1126178
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.117255
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0895403
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1239749
M01124	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09059392
M01124	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.0873246
M01124	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1155352
M01124	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1035083
M01124	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0846371
M01124	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0963547
M01124	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0880996
M01124	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0813773
M01124	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0813773
M01124	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0928974
M01124	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0940062
M01124	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0901567
M01124	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18241531
M01124	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0943636
M01124	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.0983192
M01124	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0852719
M01124	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0856836
M01125	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0936355
M01125	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0805995
M01125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11034418
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M01125	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13207195
M01125	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08540875
M01125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1812042
M01125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1208797
M01125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12233448
M01125	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1291227
M01125	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0939261
M01125	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0855168
M01125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.111927
M01125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11368147
M01125	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1222573
M01125	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0986256
M01126	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0887979
M01126	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0825229

M01126	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.0949231
M01126	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.113589
M01126	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13145239
M01126	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales	0.08269517
M01126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1859016
M01126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.0943926
M01126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.0918106
M01126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.10269109
M01126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.0934603
M01126	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1232892
M01126	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0952742
M01126	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.0762716
M01126	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0815432
M01126	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1013657
M01126	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.15401372
M01126	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.1092305
M01126	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.085727
M01128	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.1026915
M01128	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores	-0.0906846
M01128	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	0.12382945
M01128	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	0.0904192
M01128	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales	0.0958963
M01128	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	0.10817656
M01128	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1006449
M01128	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.0861896
M01128	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08385935
M01128	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.09156361
M01284	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobiales	-0.1085105
M01284	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.0924436
M01284	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.0983935
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M01284	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.08533146
M01284	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0999752
M01284	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.07978617
M01284	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriales	-0.0779956
M01284	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcales	0.09708441
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2300184
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.1977289
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0801618
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.0772874
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.14931232
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcales	-0.0876792
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.0911829
M01284	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.10711628
M01284	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.157336
M01284	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0926714
M01284	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0823069
M01284	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.10191302
M01284	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.07615771
M01284	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1017568

M01284	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1158264
M01284	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1021518
M01284	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1329074
M01299	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0801449
M01299	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11001021
M01299	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09027926
M01299	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1033971
M01299	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.12015146
M01299	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09245799
M01299	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2012789
M01299	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.149598
M01299	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15896576
M01299	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09557919
M01299	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1351523
M01299	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1023823
M01299	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08135581
M01299	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1265632
M01299	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1374303
M01299	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0782132
M01299	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0870856
M01299	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1445694
M01301	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1019053
M01301	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1020275
M01301	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1048165
M01301	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0943161
M01301	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.12005007
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.30162
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1926921
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1246227
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1083768
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12022702
M01301	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1077029
M01301	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1787476
M01301	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1675376
M01301	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0921044
M01301	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1723447
M01301	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13210683
M01301	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1687067
M01301	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1563715
M01301	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.145254
M01302	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0875396
M01302	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0798414
M01302	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09395358
M01302	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08896484
M01302	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0899898
M01302	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0955484
M01302	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11994987
M01302	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07655623
M01302	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.236284
M01302	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1533338

M01302	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0817215
M01302	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0888543
M01302	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14610129
M01302	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1513538
M01302	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1140775
M01302	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0972616
M01302	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1073557
M01302	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13522081
M01302	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1243379
M01302	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0813185
M01302	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1198043
M01302	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0901828
M01303	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1290844
M01303	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1630164
M01303	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11905749
M01303	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.0941791
M01303	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1746088
M01303	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1174314
M01303	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07714424
M01303	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.105469
M01303	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10803298
M01303	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13395684
M01336	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0819629
M01336	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0974821
M01336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1408222
M01336	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0829952
M01336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08872619
M01336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0801088
M01336	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.08149651
M01356	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08721378
M01356	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0877439
M01356	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turicib	-0.0824679
M01356	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1200652
M01356	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07940131
M01356	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.12004973
M01356	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0842893
M01356	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.11357297
M01356	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09930457
M01356	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.11030408
M01358	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0978074
M01358	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0890077
M01358	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0969604
M01358	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.094579
M01358	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1085636
M01358	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10353811
M01358	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0807915
M01358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08328533
M01358	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.1007395
M01361	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.35672113
M01361	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.27787607

M01361	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.23028694
M01361	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.35672113
M01361	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23993167
M01361	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22070829
M01361	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2287345
M01361	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2616886
M01361	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2110261
M01361	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.4017339
M01361	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2210479
M01361	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2451655
M01361	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2554327
M01361	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacterales.f__	-0.2057606
M01361	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.2816842
M01361	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2841745
M01361	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.48989058
M01361	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.235071
M01361	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2865386
M01361	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.35672113
M01361	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.24995559
M01361	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2381221
M01361	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3473887
M01361	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2392983
M01361	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2259595
M01361	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.26796188
M01361	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.23020327
M01361	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.218009
M01365	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08261534
M01365	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0971687
M01365	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.10975063
M01365	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.09779268
M01365	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.08662509
M01365	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08738437
M01365	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.10716406
M01365	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10968455
M01365	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1310343
M01365	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1164508
M01365	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08626321
M01408	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.243958
M01408	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2449864
M01408	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3689338
M01408	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1922318
M01408	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2110561
M01408	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3188655
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5489183
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.201063
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5422606
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1987323
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3415868
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.27214
M01408	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2386323

M01408	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Ruminc	-0.2734578
M01408	family	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales.f	-0.187634
M01408	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.33702272
M01408	family	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucor	-0.2455635
M01411	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.105535
M01411	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.086386
M01411	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Listeriaceae	0.10922571
M01411	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Staphylococca	-0.0945544
M01411	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococ	-0.0907537
M01411	family	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Burkholc	-0.0883945
M01411	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Aeror	-0.0927703
M01411	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Vibric	-0.1031435
M01411	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Xanth	0.09561944
M01411	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Xanth	-0.0862117
M01411	family	k_Bacteria.p_Thermi.c_Deinococci.o_Deinococcales.f_Deinoc	-0.0996153
M01412	family	k_Archaea.p_Crenarchaeota.c_Thaumarchaeota.o_Nitrososph	0.08096643
M01412	family	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2.f_Meth	-0.10766
M01412	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.0839433
M01412	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	0.08096643
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M01412	family	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_f	0.09443238
M01412	family	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	-0.0848208
M01412	family	k_Bacteria.p_Chlorobi.c_Ignavibacteria.o_Ignavibacteriales.f__	0.09016731
M01412	family	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_Fibrobacterales.	0.08073861
M01412	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Staphylococca	-0.0871477
M01412	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococ	-0.0873698
M01412	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Caldico	-0.0900907
M01412	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Christei	-0.1474318
M01412	family	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomyc	0.10327948
M01412	family	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhizobi	0.09164543
M01412	family	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ricketts	-0.0787515
M01412	family	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Burkholc	-0.1151021
M01412	family	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Myxoco	-0.0799252
M01412	family	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Myxoco	0.08096643
M01412	family	k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Camp	-0.0880113
M01412	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Aeror	-0.0935867
M01412	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alterc	-0.0923628
M01412	family	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Legio	-0.0838343
M01412	family	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales.f__	-0.1105636
M01412	family	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales.f__	-0.1010848
M01413	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.2644711
M01413	family	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.3012789
M01413	family	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.3361889
M01413	family	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_(	-0.2631748
M01413	family	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	-0.2071425
M01413	family	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae	-0.2331831
M01413	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Caldico	-0.2067293
M01413	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Christei	-0.5289691
M01413	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_Dehalo	-0.3763117
M01413	family	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales.f_EtOH8	-0.294451

M01413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4246667
M01413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3045467
M01413	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2261158
M01413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2300244
M01413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.348845
M01413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.39812137
M01413	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3134041
M01413	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2911888
M01416	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1217831
M01416	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1231958
M01416	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1166091
M01416	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.117972
M01416	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0996982
M01416	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1701622
M01416	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1539738
M01416	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1039278
M01416	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09061669
M01416	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0970997
M01416	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13449048
M01416	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09856556
M01416	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10762895
M01416	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1116043
M01416	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08434961
M01416	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1312613
M01416	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0883126
M01416	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14127527
M01417	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1002175
M01417	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0987635
M01417	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0839611
M01417	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2302639
M01417	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.210525
M01417	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1395116
M01417	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1624069
M01417	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1027568
M01417	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1315884
M01417	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.10338351
M01417	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09244333
M01417	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1198499
M01417	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0945978
M01417	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0966091
M01417	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0833778
M01417	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1436601
M01417	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1172173
M01417	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1423934
M01417	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.101557
M01418	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16872759
M01418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1781582
M01418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1895309
M01418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1745636
M01418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1765944

M01418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3642634
M01418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1927101
M01418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1815356
M01418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2716815
M01418	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3212137
M01437	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1122286
M01437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0913816
M01437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08310161
M01437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08790214
M01437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1710357
M01437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1044792
M01437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0986551
M01437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10357307
M01437	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08728004
M01437	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12048972
M01437	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1178831
M01444	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07720789
M01444	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.082838
M01444	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07720789
M01444	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0757589
M01444	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1068682
M01444	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0815324
M01444	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1496218
M01444	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1107204
M01444	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1068534
M01444	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.120835
M01444	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0941051
M01444	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1658328
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0964655
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3045978
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3406048
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.174438
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.17082
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1024155
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.208607
M01444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1745071
M01444	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2360951
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M01444	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0784216
M01444	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1109445
M01444	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.098961
M01444	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0865766
M01444	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0978441
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M01444	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.12138969
M01444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0858933
M01444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0861768
M01444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0795077
M01444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0978441
M01444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0808488

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M01444	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0781834
M01444	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1906118
M01444	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07629961
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M01444	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0784356
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M01471	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.2777149
M01471	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.23627
M01471	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3233453
M01471	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2907173
M01471	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2888049
M01471	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.2536241
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M01471	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.2562122
M01483	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09933425
M01483	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11099451
M01483	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1365793
M01483	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0894586
M01483	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1311191
M01483	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1132565
M01493	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1033956
M01493	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1121867
M01493	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0888163
M01493	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1296237
M01493	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0948119
M01493	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1423086
M01493	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0827669
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M01493	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13306698
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M01493	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0948895
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M01493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3903354
M01493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1208054
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M01493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1653973
M01493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1875346
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M01493	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1054419
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M01493	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0896005
M01493	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0890667
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M01493	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1334737
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M01493	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.140117
M01493	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0975001
M01493	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1780838
M01494	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08571542
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M01494	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0813212
M01494	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0984572
M01495	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10463492
M01495	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.23104356
M01495	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.19283189
M01495	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.09120606
M01495	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.09785815
M01495	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10982041
M01495	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1040303
M01495	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.12623957
M01495	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0797656
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M01495	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.1467891
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M01496	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3120543
M01496	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.32895502
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M01496	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.4322874
M01496	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3019193
M01496	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.4508474
M01496	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.6412979
M01496	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2805033
M01496	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.6159627
M01496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.301831
M01496	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.26799777
M01496	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.3868602
M01496	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39495117
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M01496	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.39402919
M01496	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.28531042
M01496	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroson	-0.4934175
M01496	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.80180217
M01496	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.29490608
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M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.43973498
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.28531042
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2901207
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.4076986
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.59172576
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.3381652
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.30851325
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.53851398
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.5886504
M01496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.35049846
M01496	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.514673
M01496	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.4166924
M01496	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.4999116
M01496	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.38560623
M01496	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.31957958
M01498	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.090914
M01498	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0833516
M01498	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1257721
M01498	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1466674
M01498	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.13427643
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3079568
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2480376
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1289378
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1342347
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1164037
M01498	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1327127
M01498	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10697073
M01498	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1330646
M01498	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1350186
M01498	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1031948
M01498	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15084709
M01498	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1582622
M01498	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1135915
M01498	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1713622
M01500	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2401356
M01500	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2373009
M01500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20710015
M01500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.238438
M01500	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.4091965
M01504	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.092156
M01504	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.156469
M01504	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1123911
M01504	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10578808
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M01504	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08595004
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3504227
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0793827
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2215146
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.141284

M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1860154
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15042212
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0941484
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1063493
M01504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13546186
M01504	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1222664
M01504	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1633523
M01504	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22802833
M01504	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1160257
M01504	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1931793
M01505	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08419245
M01505	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1034395
M01505	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1302307
M01505	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0859896
M01505	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08054403
M01505	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1094807
M01505	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.1025459
M01505	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1047631
M01505	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1827748
M01505	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1483594
M01505	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.209117
M01505	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.094828
M01505	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1541061
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M01505	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0858266
M01505	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08716678
M01505	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09052284
M01505	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0915193
M01505	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1105264
M01505	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.101901
M01505	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0833618
M01505	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13010548
M01505	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0836026
M01505	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1011301
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M01508	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1135062
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M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3508998
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1007597
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2154953
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1583723
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1979457
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14980214
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.145234
M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0924138

M01508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11299536
M01508	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1068368
M01508	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1418541
M01508	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0774682
M01508	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1840679
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M01508	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1590813
M01508	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1063581
M01508	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.207798
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M01510	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09381221
M01510	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0841087
M01510	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10064437
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M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1578894
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M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0798242
M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.106302
M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1120862
M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1038486
M01510	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1175565
M01510	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.16069742
M01510	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0848897
M01510	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09956246
M01510	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08765708
M01510	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0746911
M01510	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0867161
M01510	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1379591
M01512	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1076279
M01512	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.144719
M01512	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08371187
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M01512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1851248
M01512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.11809
M01512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1184098
M01512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1638239
M01512	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0881116
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M01512	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1319705
M01512	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08620744
M01512	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1106928
M01512	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1191972
M01512	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2343628
M01512	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0996671
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M01515	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2810941

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M01515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2847584
M01515	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.25056182
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M01516	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1753281
M01516	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2246767
M01516	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.26735141
M01516	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.19918447
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M01519	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1633052
M01527	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0974281
M01527	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.106024
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M01527	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0821365
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M01527	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.0913834
M01527	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0906572
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M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1139228
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2787826
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1811215
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1517978
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2223699
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10453291
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1151121
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1119972
M01527	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08455767
M01527	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0822588
M01527	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1127127
M01527	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1381148
M01527	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0959293
M01527	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0987908
M01527	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08258839
M01527	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1060366
M01527	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1005835
M01527	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1837315
M01527	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26247884
M01527	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0905685
M01527	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1841885
M01527	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1273992
M01527	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1381673

M01552	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0972046
M01552	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0822728
M01552	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1389659
M01552	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0976005
M01552	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0985958
M01552	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1460366
M01552	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08017028
M01552	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0977567
M01553	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.09829673
M01553	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1646132
M01553	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0827343
M01553	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1381581
M01553	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f	0.08289564
M01553	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.11226489
M01553	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08172396
M01553	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1016182
M01553	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.11049444
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M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09646873
M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10687578
M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20278246
M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1292086
M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1055018
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M01553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1651788
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M01553	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.09795281
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M01553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0824462
M01553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1131025
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M01553	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.08936
M01553	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.15596457
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M01556	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2743569
M01556	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2209286
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M01556	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2735585

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M01556	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2042591
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M01558	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0763871
M01558	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08062385
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M01558	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	-0.0763871
M01558	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08566643
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M01563	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.247007
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M01564	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.1088643
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M01566	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__D	0.20942614
M01572	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.089274
M01572	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1374117
M01572	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__E	-0.0770604
M01572	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0817058
M01572	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09868067
M01572	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1159617
M01572	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.07987621
M01572	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.07737306
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2626942
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1735709
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1201307
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.154851
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09656884

M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0805458
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0778629
M01572	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12652232
M01572	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07755546
M01572	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1210776
M01572	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08862744
M01572	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1751525
M01572	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26879864
M01572	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1238958
M01572	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1318086
M01573	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07995824
M01573	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07995824
M01573	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2200813
M01573	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0890573
M01573	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10086674
M01573	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0992031
M01573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0899644
M01573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.103328
M01573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.083874
M01573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.080369
M01573	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0773366
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1017323
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.222581
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.081998
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1079617
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0808755
M01573	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1062869
M01573	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09070785
M01573	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1431433
M01573	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.07995824
M01573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0852021
M01573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.095828
M01573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0818312
M01573	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11389789
M01573	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0786156
M01573	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.112206
M01574	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2869753
M01574	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1860276
M01574	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2448076
M01574	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.24756268
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.5374002
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6350333
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.239988
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3501917
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1876149
M01574	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1924132
M01574	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2022452
M01574	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2958564
M01574	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2516833
M01574	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1931062

M01576	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2012804
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4207582
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.357213
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2590582
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1942953
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2527106
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1900818
M01576	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18417487
M01576	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21271303
M01576	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17677473
M01576	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21118677
M01576	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1886483
M01576	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29585394
M01576	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2111852
M01584	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.19350188
M01584	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2333273
M01584	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19656486
M01584	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2853999
M01584	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3896097
M01584	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.21029401
M01584	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.20955395
M01584	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.175668
M01584	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.18581074
M01584	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.17320029
M01584	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	-0.2944724
M01584	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.210191
M01584	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2046515
M01584	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18858548
M01584	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17108945
M01584	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1829213
M01584	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.25353405
M01584	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.29123692
M01584	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22708808
M01584	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2166164
M01584	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21821293
M01584	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2820892
M01584	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.1990199
M01584	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.24131564
M01584	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3595861
M01584	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.31660258
M01584	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2455758
M01584	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.2223572
M01584	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.2539168
M01584	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.27481722
M01585	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1018011
M01585	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.07977486
M01585	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0841489
M01585	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1059169
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M01585	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.08334274

M01585	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1111857
M01585	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08538989
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2603228
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1525876
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0826384
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12344539
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0845599
M01585	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0978684
M01585	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1332163
M01585	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0970503
M01585	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0891866
M01585	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1106281
M01585	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10707925
M01585	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1504371
M01585	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1429503
M01586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1428339
M01586	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0824102
M01586	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0994503
M01586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0907578
M01587	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1244076
M01587	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1001355
M01587	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934822
M01587	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1256159
M01587	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.102383
M01587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1243686
M01587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1020829
M01587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.11105474
M01587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08997418
M01587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1182297
M01587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08208038
M01587	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1113754
M01587	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.087671
M01587	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1136197
M01587	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1088901
M01587	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11177166
M01587	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0983264
M01587	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1163653
M01589	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1263907
M01589	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.102712
M01589	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0783354
M01589	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1002234
M01589	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1045266
M01589	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1084383
M01589	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08436803
M01589	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1070988
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M01589	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1387218
M01589	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13437609
M01589	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1021034
M01589	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.07931934

M01589	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08049839
M01589	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0944323
M01589	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1907627
M01589	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0957081
M01589	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0901838
M01589	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11359402
M01589	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1402311
M01589	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0832409
M01589	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.129996
M01589	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1013403
M01589	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1169279
M01589	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18300961
M01589	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0923032
M01589	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1043291
M01589	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1462923
M01589	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1380194
M01589	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0912262
M01591	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0883472
M01591	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0998377
M01591	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0978331
M01591	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09689142
M01591	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1165678
M01591	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1008929
M01591	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.13025619
M01591	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08400472
M01591	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08153782
M01591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1646921
M01591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0804507
M01591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1477599
M01591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1100394
M01591	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1100197
M01591	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0974891
M01591	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13629313
M01594	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1149308
M01594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.126629
M01594	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1069259
M01594	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0998475
M01594	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.102858
M01594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1255924
M01594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1365569
M01594	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0945039
M01594	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1104119
M01594	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0912731
M01594	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1097869
M01594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1057221
M01594	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1060004
M01594	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1163131
M01594	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.109718
M01603	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08645641
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M01603	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1148514
M01603	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.22196609
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.1914916
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.147448
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1225684
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0946973
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1014036
M01603	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1042314
M01603	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1132156
M01603	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1066718
M01603	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1123341
M01604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13240843
M01604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.09248043
M01604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08574984
M01604	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08563792
M01604	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12307274
M01604	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09577251
M01604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.13150351
M01605	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2727858
M01605	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2431096
M01605	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2044178
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.6104424
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4583013
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.4650442
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2531397
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3692046
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.2010699
M01605	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2679229
M01605	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2636906
M01605	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2754341
M01605	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25659857
M01605	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2808943
M01605	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2567432
M01605	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.536148
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M01638	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1238446
M01638	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1018553
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M01638	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0951596
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M01638	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13010542
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M01638	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0870583
M01638	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0984106
M01638	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1456898
M01638	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14731251
M01638	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1392411
M01642	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0910275
M01642	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09257129
M01642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1337985

M01643	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1060093
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M01643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09086389
M01643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08334116
M01643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12174047
M01643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08926688
M01643	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0775013
M01643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1290371
M01643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1215463
M01643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07812456
M01643	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13671689
M01643	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0976837
M01643	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09826979
M01644	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.086218
M01644	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0907787
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M01644	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0814605
M01644	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0869462
M01644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.13201265
M01644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1437923
M01644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0962843
M01644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1105514
M01644	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1087775
M01644	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0901247
M01644	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0822125
M01644	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0957072
M01644	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0783748
M01644	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0840744
M01645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.07955598
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M01648	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09007528
M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2533968
M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1709927
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M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1302244

M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0964136
M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10140304
M01648	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0789315
M01648	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08145475
M01648	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0789315
M01648	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1325609
M01648	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0789315
M01648	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0789315
M01648	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12050432
M01648	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.0928981
M01648	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0789315
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M01648	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1139455
M01648	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0845245
M01648	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1091123
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M01649	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1137294
M01649	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1272384
M01649	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0934866
M01649	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1214478
M01649	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.082325
M01649	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843216
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M01649	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0897538
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M01651	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1616293
M01651	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.1385656
M01651	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0785636
M01651	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08120599
M01651	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1091318
M01651	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1851106
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M01651	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.10680358
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M01669	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09567513
M01669	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10161662
M01669	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.10754168
M01669	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0797426
M01669	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09323654
M01669	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0967837
M01669	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0902448
M01669	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.09287914
M01768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4230133
M01768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4564237
M01768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2433557
M01768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2082266
M01768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2168263
M01768	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f	-0.2687817
M01806	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1698499
M01806	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1903244
M01806	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2422952
M01806	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1826638
M01806	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2261818
M01806	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.19579209
M01806	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.21436661
M01827	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0994909
M01827	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1176389
M01827	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11240758
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2642651
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1198553
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1469015
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1158125
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1274988
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14121222
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1084171
M01827	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0875077
M01827	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f	-0.1372238
M01827	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1272109
M01827	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1308993
M01827	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1566752
M01827	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10585324
M01827	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1265109
M01827	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1315594
M01868	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0932313
M01868	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1757546
M01868	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1350996
M01868	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09477391
M01868	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08533808
M01868	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0887915
M01868	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0983233
M01868	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.11228
M01868	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f	-0.0892738
M01868	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0817166
M01898	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0821282

M01898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08362125
M01898	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0968388
M01898	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09128539
M01898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10214721
M01898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0919949
M01898	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0870296
M01898	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0821152
M01898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0916191
M01899	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2854521
M01899	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.22727309
M01899	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.2063554
M01899	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.20286831
M01899	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2398121
M01899	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28456203
M01899	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.5468295
M01899	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2218759
M01899	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.35757165
M01899	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3405779
M01899	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3185038
M01899	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2813603
M01899	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.386472
M02125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1104644
M02125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1389041
M02125	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.11643629
M02125	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10490016
M02125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2429989
M02125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2128179
M02125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.076508
M02125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14258684
M02125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09110562
M02125	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1035871
M02125	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1105812
M02125	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1489245
M02125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1590178
M02125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10085329
M02125	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1429813
M02132	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10376133
M02132	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09846173
M02132	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1486226
M02132	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0828992
M02132	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07773372
M02132	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1373494
M02132	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08779376
M02132	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0872211
M02132	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.0846498
M02132	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0819723
M02132	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1507281
M02132	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1087737
M02134	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2103242
M02134	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3283673

M02134	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.235939
M02134	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.22637714
M02134	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.24301222
M02134	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.21529984
M02134	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19426531
M02134	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2086079
M02134	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2280679
M02137	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1292266
M02137	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08871693
M02137	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.0837521
M02137	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.10251469
M02137	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.08178378
M02137	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09439448
M02137	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08842116
M02137	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08691113
M02137	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12970412
M02137	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1690854
M02137	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09320597
M02137	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09428175
M02137	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.07674594
M02137	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14763603
M02137	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07829702
M02137	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.09836996
M02150	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1054008
M02150	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0789876
M02150	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1033785
M02150	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0857646
M02150	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1390477
M02150	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0848575
M02150	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0962572
M02150	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0834372
M02150	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1366605
M02150	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0933846
M02150	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0832874
M02150	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0819088
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1087049
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2210241
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.139242
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1507126
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1078165
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1160788
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.0844832
M02150	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1136851
M02150	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0921516
M02150	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1575168
M02150	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1362035
M02150	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1313387
M02150	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1220286
M02150	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0868873
M02150	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2149983

M02150	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.076367
M02150	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.0841056
M02150	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1004322
M02150	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1434815
M02150	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2077118
M02150	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1079431
M02183	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.08098
M02183	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0799717
M02183	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08960841
M02183	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0900094
M02183	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.09040897
M02183	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0846326
M02183	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.077574
M02183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0829948
M02183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1837568
M02183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.08314
M02183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0801143
M02183	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0869737
M02183	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.10878641
M02183	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08906639
M02183	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0880708
M02183	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1344042
M02183	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0825909
M02183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0994016
M02183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0794236
M02183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1127587
M02183	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0982823
M02183	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1026284
M02183	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0901988
M02342	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1052468
M02342	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0849892
M02342	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1004529
M02342	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0838994
M02734	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09247436
M02734	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.0931735
M02734	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.12584788
M02734	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1090265
M02734	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09550704
M02734	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1662647
M02829	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1147015
M02829	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1199777
M02829	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1155627
M02829	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1556577
M02829	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11848551
M02829	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08094092
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2739233
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1405463
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1101414
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1449056
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0928868

M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14378888
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1007665
M02829	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08909915
M02829	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0794967
M02829	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.123262
M02829	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17403034
M02829	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1014308
M02829	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.10494
M02829	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1451828
M02959	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2338662
M02959	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.25783892
M02959	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.19820929
M02959	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2140479
M02959	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3188978
M02959	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2284957
M02959	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2340052
M02959	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1940607
M02959	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.20297696
M02959	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.21568967
M02959	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.29208452
M02959	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.21511719
M02959	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.27617393
M02959	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2286597
M02959	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2069148
M02959	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.21721745
M02959	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.20819029
M03127	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1179425
M03127	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.132711
M03127	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0824156
M03127	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.107215
M03127	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1063051
M03127	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09523481
M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874342
M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1125699
M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.107215
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M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0824156
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M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0854471
M03127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874342
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M03127	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0824156
M03127	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0874342
M03127	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.0874342
M03127	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1025063
M03127	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1500976
M03127	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0864315
M03127	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1134045
M03127	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0824156

M03127	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0824156
M03127	family	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.0824156
M03127	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0824156
M03127	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0859647
M03127	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.107215
M03127	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.09718182
M03127	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycidae.o__Nostocales	0.08241563
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1268586
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0897033
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1105465
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.0783459
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1098164
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1203557
M03127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.093348
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.091601
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1084859
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2813367
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1341226
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M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1320825
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1305399
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1061415
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1348917
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M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0991016
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09801952
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.0824156
M03127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.107215
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M03127	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.107215
M03127	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.155855
M03127	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.0806683
M03127	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0844899
M03127	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.0874342
M03127	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1093056
M03127	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0874342
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M03127	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0963398
M03127	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1250964
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M03127	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0989769
M03127	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0963812
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M03127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1199665

M03127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1074136
M03127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1151125
M03127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0824156
M03127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0976429
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M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1085691
M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0926482
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M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1469091
M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0936777
M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.107215
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M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19329563
M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0910511
M03127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1048116
M03127	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.107215
M03127	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0864296
M03127	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1167056
M03127	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.1100101
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M03127	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1143284
M03127	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1331026
M03127	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0824156
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M03127	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0874342
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M03127	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0986094
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M03141	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.12309651
M03141	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09509071
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M03141	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.08287856
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M03141	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10050534
M03141	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1221304
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M03147	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1255918
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M03147	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__J	-0.0840687
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M03147	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.10004863
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M03147	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0924283
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M03147	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.3126687
M03147	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0863134
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M03147	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1500988
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M03147	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1483624
M03147	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0881491
M03147	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1041868
M03147	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.0881491
M03147	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1687466
M03147	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1378179
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M03147	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.089169
M03147	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0843675
M03147	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1438157
M03147	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0794551
M03147	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1054256
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.099739
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0776791
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0794551
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0881491
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1485214
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0881491
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0886979
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15057432
M03147	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0910917
M03147	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0881491
M03147	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1718731
M03147	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1216039
M03147	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1316099
M03147	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0772548
M03147	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1045799
M03147	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1023368
M03155	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0866186
M03155	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1227591

M03155	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0866456
M03155	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0815504
M03155	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0855905
M03155	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08684889
M03155	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1546356
M03155	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1214949
M03155	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1162843
M03155	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1374834
M03155	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0842055
M03155	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0973331
M03155	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0929055
M03155	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1255389
M03155	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1219648
M03155	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0944171
M04970	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.18662352
M04970	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1976301
M04970	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.1998608
M04970	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.176674
M04970	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18349864
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18662352
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1743915
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1876153
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23173429
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.176674
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1904757
M04970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1743915
M04970	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1963163
M04970	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.1986692
M04970	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.176674
M04970	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.1743915
M04970	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.1743915
M04970	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2088116
M04970	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2051258
M04970	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3241945
M04970	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.176674
M04970	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.176674
M04970	family	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.176674
M04970	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.18659578
M04970	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.176674
M04970	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.1840121
M04970	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.17667374
M04970	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.17787432
M04970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.183474
M04970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3127838
M04970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1837551
M04970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.176674
M04970	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.1743915
M04970	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23652024
M04970	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1743915
M04970	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1743915

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M04970	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2615044
M04970	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1893391
M04970	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.176674
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M04970	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1723907
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.17667374
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.176674
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.176674
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.189054
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.18662352
M04970	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1743915
M04970	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20407426
M04970	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.189054
M04970	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1948101
M04970	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2005445
M04970	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3033776
M04970	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1753754
M04970	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.23084
M04970	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.176674
M04970	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.18228501
M04970	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1743915
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M04970	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2050475
M04970	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2033043
M05086	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriae	-0.0848278
M05086	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08160511
M05086	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0884066
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M05086	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0940544
M05086	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0848278
M05086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1225637
M05086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0943929
M05086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0867618
M05086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0848278
M05086	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.108884
M05086	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0848278
M05086	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09602794
M05086	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1047764
M05086	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0848278
M05086	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843815
M05086	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0848278
M05086	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1149793
M05086	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1101185

M05086	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0848278
M05086	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0889218
M05086	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08110687
M05341	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0882196
M05341	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1372971
M05341	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1334995
M05341	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0866493
M06104	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0938372
M06104	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1222286
M06146	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09516861
M06146	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0816898
M06146	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0882927
M06146	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1556649
M06146	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0905282
M06146	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09027819
M06146	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.1007118
M06146	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10832543
M06146	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1419939
M12032	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2842867
M12032	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2769796
M12032	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30202348
M12032	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2681647
M12032	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.256475
M12032	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2255997
M12032	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2251868
M12032	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2482564
M12110	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.27558328
M12110	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.33603214
M12110	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2476998
M12110	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.3242296
M12110	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.30313577
M12110	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.25390754
M12110	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2988235
M12110	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.3626037
M12110	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3131245
M12110	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.34522572
M12110	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2420768
M12110	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.28072333
M12110	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.29508661
M12110	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.23751182
M12110	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.29305521
M12110	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.27224617
M12110	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2425126
M12115	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1779666
M12115	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1762641
M12115	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2190207
M12129	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2357076
M12129	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2115967
M12129	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2612322
M12129	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.4245674

M12129	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.2551683
M12129	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2053843
M12129	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.26784683
M12129	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.30908538
M12129	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24919226
M12129	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.23638364
M12129	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.29535669
M12129	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2438336
M12129	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.2552207
M12129	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.21436598
M12129	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.21809521
M12129	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21403487
M12129	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.227504
M12142	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0979652
M12142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1188254
M12142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1696255
M12261	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2115184
M12261	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17094104
M12261	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2148033
M12261	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21902642
M12261	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1919232
M12261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19831522
M12261	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.17780736
M15076	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08665773
M15076	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0820763
M15076	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0914823
M15076	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0969911
M15076	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09747309
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08665773
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919343
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1085981
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M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08484004
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1036734
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914823
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0959242
M15076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919343
M15076	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0914823
M15076	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0919343
M15076	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0919343
M15076	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0906928
M15076	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09948535
M15076	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0897865
M15076	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0914823
M15076	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0914823
M15076	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0914823
M15076	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0914823
M15076	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0918815
M15076	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0969911

M15076	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09148232
M15076	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.0898894
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0866144
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.1097095
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.1192035
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae	-0.1119216
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae	-0.1036409
M15076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriaceae	-0.105083
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.0941801
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldicellulosimicrobiales	-0.101957
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1135571
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.0939781
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.1207664
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0959261
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Archaerobacteriales	-0.0914823
M15076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.0969911
M15076	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	-0.0969911
M15076	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.0919343
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0919343
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0855052
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0906419
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0914823
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.08838705
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobacterales	-0.0914823
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.0838098
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.0895497
M15076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.0832405
M15076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0864646
M15076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.0868274
M15076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.0815452
M15076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.1039268
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	0.09148232
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	-0.0914823
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1042663
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0885683
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0914823
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	-0.0978395
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.10596689
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.08665773
M15076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.0919343
M15076	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.108154
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	-0.1034067
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.1033528
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.0868274
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.0969911
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.0939729
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.0842371
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.0969911
M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.0880522

M15076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0959247
M15076	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0969911
M15076	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0847794
M15076	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0923295
M15076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0914823
M15076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09697137
M15076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0919343
M15076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0919343
M15122	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1074379
M15122	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0910523
M15122	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1122639
M15122	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0880606
M15122	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.0777857
M15122	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.1143064
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1988887
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1132924
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0887875
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1470716
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0949025
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0853115
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0883352
M15122	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14599487
M15122	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0958745
M15122	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1668087
M15122	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16759565
M15122	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1763962
M15125	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2735955
M15125	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1902884
M15125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2214141
M15125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.18734217
M15125	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1878101
M15125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3730102
M15125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2008591
M15125	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.19496
M15130	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1002346
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1048982
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1251513
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11153505
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18766116
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1100415
M15130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.08440729
M15130	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09316596
M15130	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12531162
M15130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1230397
M15130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0875394
M15130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1348235
M15130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0948558
M15130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10319987
M15130	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.10711941
M15130	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1145096

M15130	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08435113
M15130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18813841
M15135	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1121698
M15135	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0870313
M15135	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0883856
M15135	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.22718236
M15135	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19233579
M15135	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1420126
M15135	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.09349942
M15135	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1062027
M15135	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1401116
M15135	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10503891
M15135	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1075053
M15135	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23255599
M15135	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.09604425
M15136	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2337406
M15136	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.1966772
M15136	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2011134
M15136	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.2197103
M15136	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.1962657
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2533931
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2085247
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2011134
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M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2898888
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966772
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2348442
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2085247
M15136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.6393431
M15136	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2782559
M15136	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2392532
M15136	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.1966772
M15136	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2085247
M15136	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2085247
M15136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2310204
M15136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2182677
M15136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2293322
M15136	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1966772
M15136	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2571624
M15136	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1966772
M15136	family	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.1966772
M15136	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.1966772
M15136	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2011134
M15136	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.19667715
M15136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.3222248
M15136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2402566
M15136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2799427
M15136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.3880519
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2077349

M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2640488
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.4160736
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3247199
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2986178
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3725851
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2272235
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2619192
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2564178
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2202098
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.1966772
M15136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2011134
M15136	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2011134
M15136	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.1988581
M15136	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2085247
M15136	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2814102
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2085247
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2085247
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2197693
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1966772
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2258752
M15136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1966772
M15136	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3351537
M15136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.19667715
M15136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1966772
M15136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1966772
M15136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2469665
M15136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2085247
M15136	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1988856
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2549218
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2011134
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2304591
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2440032
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2011134
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2222523
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2292282
M15136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.23398
M15136	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2011134
M15136	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2716856
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1966772
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.19601804
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2085247
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2085247
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2440007
M15136	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2556805
M15142	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10259778
M15142	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09601197
M15142	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08930579
M15142	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.11502875
M15142	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10149716
M15142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15532023

M15142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10970413
M15142	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.11204989
M15142	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1219216
M15142	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09522964
M15142	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.12896109
M15142	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08705712
M15142	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09522964
M15142	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.09108016
M15308	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2959379
M15308	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3579456
M15308	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3436078
M15308	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1855362
M15308	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2138172
M15308	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2339542
M15308	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22358948
M15308	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18985682
M15336	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2199232
M15336	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.1792992
M15336	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1800989
M15336	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1723361
M15336	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2131643
M15336	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.1838693
M15336	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1838348
M15336	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2052685
M15336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4039455
M15336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1838485
M15336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2048802
M15336	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2322151
M15336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25838825
M15336	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1988055
M15443	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0807164
M15443	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1332214
M15443	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1349319
M15443	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08021945
M15443	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1040308
M15443	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.08755927
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2126468
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1208531
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0796164
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.122287
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1069513
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0847662
M15443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1055697
M15443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1106734
M15443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1021728
M15443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15830111
M15443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07886927
M15443	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1666124
M15497	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2461182
M15497	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2560229

M15497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2690643
M15497	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2138093
M15497	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.204099
M15500	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09751792
M15500	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08077908
M15500	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.21967328
M15500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16863129
M15500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.16427352
M15500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1180906
M15500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08430382
M15500	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.087319
M15500	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0945061
M15500	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09303547
M15500	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14731272
M15506	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobae	-0.0859293
M15506	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.11956
M15506	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.128562
M15506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1025418
M15506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.122018
M15506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.08270719
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M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.166112
M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0934429
M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0828563
M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1065967
M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1096431
M15506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10048003
M15506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09706994
M15506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0801947
M15506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1107648
M15506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2168639
M15506	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.084306
M15506	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0930952
M15581	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0931906
M15581	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09302767
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M15581	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.08372216
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M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.225644
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1583212
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1278946
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0963871
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10835354
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1000826
M15581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10331431
M15581	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07905486
M15581	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10076555
M15581	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0893905
M15581	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19102912
M15581	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0771025

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M15586	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1467687
M15586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1052217
M15586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09836438
M15586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0843688
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M15586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0907083
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M15586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.0965751
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M15586	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.1359331
M15587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae.f__	0.10812197
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M15650	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.2204825
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M15650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__	-0.2420961
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M15667	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales.f__	0.12761908
M15667	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__	0.09023872
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M15667	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.14923384
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M15673	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21111932
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M15673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3668886
M15673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2128695
M15673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1868574
M15673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21997711
M15673	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33978109
M15673	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2941589
M15676	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.08584542
M15676	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08753447
M15676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0928555
M15676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09439136
M15676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09574638
M15676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12006762
M15676	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0816118
M15676	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0794213
M15676	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.09951
M15676	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0939851
M15676	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1055753
M15676	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1055199
M15676	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41.f__RF	0.12678533
M15676	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.10922865
M15677	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0909431
M15677	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0986632
M15677	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1177199
M15677	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.1011803
M15677	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08910242
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2258924
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1843788
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1458051
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1690616
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0891438
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0970089
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1386451
M15677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0913725
M15677	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1475127
M15677	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13122083
M15677	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910746
M15677	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11465739
M15677	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0900281
M15677	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1691315
M15679	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1703162
M15679	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1963939
M15679	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.19732129
M15679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19170907
M15679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1822487
M15679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2203203
M15679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18486134
M15679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1712005
M15679	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.180865

M15679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2384831
M15679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.2112794
M15679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2097736
M15679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.1903951
M15679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.4646069
M15679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteraceae	-0.3875388
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M15679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteraceae	-0.1805759
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M15679	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallaceae	-0.2398551
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M15679	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae	0.27033236
M15679	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Dehalobacteriaceae	-0.2139538
M15679	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistaceae	-0.1913503
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M15681	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacteriaceae	-0.0803042
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M15685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.5415767
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M15685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.337775
M15685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriaceae	-0.2629172
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M15685	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1707818
M15685	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30303175
M15685	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.285559
M15685	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2825058
M15685	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2981536
M15704	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2217254
M15704	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	0.20700123
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M15704	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	0.20700123
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M15704	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.20700123
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M15704	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.22913841
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M15704	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.28058594
M15704	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.29454737
M15704	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.36787542
M15704	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.27575327
M15704	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.37300558
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M15704	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22029547
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M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.18526
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6732057
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2406312
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5425143
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3072913
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2274219
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2014165
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1926288
M15705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1819624
M15705	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.175896
M15705	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3542246
M15705	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2872637
M15705	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1866006
M15705	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3887835
M15705	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1779961
M15705	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3231353
M15705	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1860054
M15705	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2244705
M15705	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.45536
M15716	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11388111
M15716	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09295218
M15716	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09318521
M15716	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11369876
M15716	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09682202
M15716	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09024306
M15716	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12570215
M15716	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.09695502
M15720	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1077739
M15720	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1186192
M15720	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.08997016
M15720	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0905902
M15720	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12667496
M15720	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0896864
M15720	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1152771
M15720	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1080566
M15720	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11016514
M15720	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0954623
M15720	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.10443
M15729	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.09662699
M15729	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1400259
M15729	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0985689
M15729	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.09944213
M15729	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.09982545
M15730	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09683476
M15730	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0885966
M15730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07619968
M15730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.14682142
M15730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08396881

M15730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19640354
M15730	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0800458
M15730	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09640613
M15730	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.09185844
M15730	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1194325
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.28845606
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.26937323
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.15618177
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13323092
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0979617
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.13019597
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10673176
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1604574
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.07267761
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.11914107
M15730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0880002
M15730	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1357641
M15730	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.15132681
M15730	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11247861
M15730	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07238406
M15730	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0769141
M15730	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.191088
M15730	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.0953512
M15730	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.18726925
M15745	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0876055
M15745	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11500108
M15745	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09393385
M15745	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10558512
M15745	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11940636
M15745	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1097489
M15745	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09525345
M15745	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1165891
M15745	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09670057
M15745	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08223702
M15745	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10926212
M15745	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1560858
M15745	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1103055
M15747	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0888697
M15747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2195631
M15747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1497699
M15747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1139906
M15747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1287597
M15747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08024774
M15747	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.097496
M15747	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0868656
M15747	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1015357
M15747	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10716733
M15747	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0839449
M15747	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1309473
M15749	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0834117

M15749	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0925857
M15749	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1481108
M15749	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1311924
M15749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1027566
M15749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08709262
M15749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13220645
M15749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09611386
M15749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0935213
M15749	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0804805
M15749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1491361
M15749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1179889
M15749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1377113
M15749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08814454
M15749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0802329
M15749	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1187766
M15749	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0986697
M15749	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0911396
M15749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0827024
M15749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1476508
M15749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18313545
M15749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0879965
M15749	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.109567
M15749	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0823449
M15765	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1174389
M15765	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.096795
M15765	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0888241
M15765	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0912507
M15765	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1206395
M15765	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1123836
M15765	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1216364
M15765	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.095644
M15772	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0926611
M15772	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0855135
M15772	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08653439
M15772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10930521
M15772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1133708
M15772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10770295
M15772	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0915025
M15772	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1292531
M15772	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0795642
M15772	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0838775
M15778	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08206102
M15778	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.079647
M15778	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1146943
M15778	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1012344
M15778	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1104399
M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1053609
M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09309538
M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08583609
M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1010848

M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0840024
M15778	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10703393
M15778	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0881224
M15778	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1842385
M15778	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0897894
M15778	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08251187
M15778	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1208185
M15778	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0870075
M15778	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11169243
M15778	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0949833
M15778	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0842679
M15778	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.0809326
M15778	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1329602
M15797	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1852457
M15797	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1951263
M15797	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.2916132
M15797	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2005838
M15797	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.226404
M15797	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1745595
M15797	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.209481
M15872	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0772979
M15872	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0881492
M15872	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.106145
M15872	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1024086
M15872	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07871436
M15872	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10527158
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1551338
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10228575
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1176559
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0964921
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11139143
M15872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08086921
M15872	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09042029
M15872	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13032576
M15872	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08332093
M15872	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1139755
M15872	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15609491
M15872	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.08584112
M15949	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.08577
M15949	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1050661
M15949	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1546486
M15949	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1057057
M15949	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.09738599
M15949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1251796
M15949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.086291
M15949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1077914
M15949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1580422
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M15949	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1122181
M15949	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0834219

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M15949	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1087709
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M15958	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.088142
M15958	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1072015
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M15958	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.111453
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M15958	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1683451
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M17769	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0761728
M17769	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0761728
M17769	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0969245
M17769	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0761628
M17769	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0761628
M17769	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0761628
M17769	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0761628
M17769	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.077319
M17769	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0894256
M17769	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.08015549
M17769	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.07616278
M17769	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07693234
M17769	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.12031664

M17769	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0792277
M17769	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0845657
M17769	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.1297221
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0929784
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2176046
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1219917
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1752231
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1305985
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0868147
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07933863
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1527399
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1443895
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0855348
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1332188
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.0761628
M17769	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobactera	-0.0894256
M17769	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08761639
M17769	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0778158
M17769	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0894256
M17769	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1871619
M17769	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0817197
M17769	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0761728
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761728
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761728
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0881188
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1048564
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0761628
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0761628
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0816491
M17769	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0876568
M17769	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0938147
M17769	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0742733
M17769	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0959886
M17769	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0815492
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.07616278
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0761628
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1120309
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0761628
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09396727
M17769	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0761728
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0944045
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0959886
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0894256
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0894256
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.088414
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.144999
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09630384
M17769	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.088091
M17769	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0894256
M17769	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1050497

M17769	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0854507
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1568823
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0761628
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08505739
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0761728
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0761728
M17769	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0837557
M17772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17214108
M17772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.21592963
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.7045401
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6192688
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2948132
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3018016
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.206483
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2049898
M17772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1778747
M17772	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21346451
M17772	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2532392
M17772	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29850683
M17772	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1840855
M17772	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2426584
M17772	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3690104
M17774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.17566591
M17774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.18923542
M17774	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17833759
M17774	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2975141
M17774	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23579844
M17774	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.22568679
M17805	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08620257
M17805	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0918441
M17805	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0889226
M17805	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1507484
M17805	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1275509
M17805	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1404258
M17805	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08215646
M17805	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.167932
M17805	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0774177
M17805	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.134209
M17805	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1116778
M17895	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0920503
M17895	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09487341
M17895	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09405736
M17895	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1007868
M17895	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1461913
M17895	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1148074
M17895	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1343164
M17895	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09411871
M17895	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0778081
M17895	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0817918
M17945	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27550769

M17945	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2760558
M17945	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22579155
M17945	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2562422
M17945	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2321595
M17945	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2464118
M17945	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2538246
M17945	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.26651804
M18245	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1792615
M18245	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17792174
M18245	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1872828
M18245	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2031445
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4021184
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4534455
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2374632
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1954514
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1813779
M18245	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.16739
M18245	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.271714
M18245	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.20506663
M18245	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1804555
M18245	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2123925
M18245	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2947732
M18245	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2720395
M18245	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2133572
M18245	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2069887
M18254	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.086809
M18254	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09618649
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3037929
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2461456
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0947826
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1843572
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10784583
M18254	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1039797
M18254	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1542623
M18254	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1018787
M18254	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0965704
M18254	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08129146
M18254	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1432451
M18254	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0889845
M18254	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1170715
M18280	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2412874
M18280	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2470938
M18280	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.4107389
M18280	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2214456
M18280	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2601683
M18280	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.22520256
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.9822685
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7200013
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.5360742
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4404919

M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21902691
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3226769
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2481051
M18280	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27226292
M18280	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3413486
M18280	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.4134084
M18280	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2781939
M18280	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3266761
M18280	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.57338112
M18280	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.8806784
M18280	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2990627
M18280	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.4730556
M18292	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09150257
M18292	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0865739
M18319	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10885638
M18319	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0907536
M18319	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1046566
M18319	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0969893
M18319	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1576414
M18319	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1341689
M18319	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07994812
M18319	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.13942442
M18319	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.08690842
M18319	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09428437
M18319	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.173518
M18319	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1303658
M18319	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0900882
M18319	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0920582
M18319	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15341821
M18319	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.0888374
M18319	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0804452
M18319	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10353451
M18319	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09426173
M18319	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1078674
M18319	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1077579
M18335	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0842941
M18335	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.0821364
M18335	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09087025
M18335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1658388
M18335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1087823
M18335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0936637
M18335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09157032
M18349	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1120657
M18349	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.1064543
M18349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.147484
M18349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1745087
M18349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1077286
M18349	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1187843
M18349	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1003899
M18349	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1189647

M18349	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12213059
M18349	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0893245
M18349	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.1040184
M18349	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.11348
M18354	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1080139
M18354	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0758847
M18354	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0889874
M18354	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08143356
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M18354	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0971051
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M18354	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0778524
M18354	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimon	-0.0778524
M18354	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1526921
M18354	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0909189
M18354	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11461937
M18354	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21610535
M18354	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1222067
M18354	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0758847
M18354	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0758847
M18354	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0758847
M18354	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0758847
M18354	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.0793583
M18354	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0889874
M18354	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.08763606
M18354	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07588465
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1150457
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1096231
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0804245
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.090391
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1034439
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1353097
M18354	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12175541
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0799106
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0947152
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0989697
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M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0771236
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0952073
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07467047
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.0758847
M18354	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales	-0.0889874

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M18354	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.0889874
M18354	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.0743765
M18354	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0778524
M18354	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0778524
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M18354	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0863761
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M18354	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.07588465
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M18354	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0889874
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M18354	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0889874
M18354	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0828244
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M18354	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0889874
M18354	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0765724
M18354	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0911352
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M18354	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0758847
M18354	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08143244
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M18357	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09696959
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M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1726424

M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1038065
M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1305216
M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0998326
M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1330007
M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0965075
M18357	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10137237
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M18357	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1583531
M18357	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0968024
M18357	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1307758
M18357	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09312518
M18357	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0739535
M18357	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.0969764
M18357	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1046574
M18357	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0957419
M18357	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1577489
M18357	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1176255
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M18362	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0737542
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M18362	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1189029
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.34057302
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.3452198
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.15309317
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.14016463
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1251943
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08615958
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.16941515
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13340633
M18362	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.0921605
M18362	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1238022
M18362	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.16422377
M18362	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0727581
M18362	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0779493
M18362	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0823671
M18362	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07576378
M18362	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0888441
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M18362	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.0984737
M18362	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.1177582
M18362	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17946962
M18369	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1529483

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M18369	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1043092
M18369	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13630558
M18369	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1125072
M18369	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1279443
M18369	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11713599
M18369	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0917006
M18369	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0878984
M18374	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0869338
M18374	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.07958813
M18374	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.16908209
M18374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1560816
M18374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1060123
M18374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11178994
M18374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0842381
M18374	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08332972
M18374	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1143405
M18374	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07826523
M18374	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08994633
M18374	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09455574
M18374	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0853735
M18374	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.0951041
M18374	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.09145
M18392	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22298088
M18392	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2128155
M18392	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.18920566
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5861808
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4806928
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2429174
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2133187
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24365041
M18392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17739738
M18392	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2855336
M18392	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.22169025
M18392	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18999146
M18392	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2189471
M18392	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1865908
M18392	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2372107
M18392	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1955893
M18394	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0988337
M18394	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2204668
M18394	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1603462
M18394	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1462693
M18394	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0841117
M18394	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.097369
M18394	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.1030962
M18467	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08039074
M18467	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.14842
M18467	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0971296

M18467	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1878139
M18467	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10474177
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2487131
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1242716
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2108104
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1302853
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0934558
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1167716
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1616867
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1435561
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0854701
M18467	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0874125
M18467	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0848447
M18467	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0878118
M18467	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09615627
M18467	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0809481
M18467	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2100473
M18476	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.097525
M18476	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0907903
M18476	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0923095
M18476	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1145905
M18476	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0866218
M18476	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1033059
M18476	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0820608
M18476	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1007403
M18476	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1353115
M18476	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09838826
M18476	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1592686
M18476	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.1110744
M18476	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12602351
M18476	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1152595
M18476	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.0943757
M18476	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.101206
M18476	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1123125
M18476	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0937443
M18476	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0943757
M18476	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0916514
M18476	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16148574
M18476	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0919189
M18476	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.1154016
M18477	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1085591
M18477	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09454926
M18477	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1035683
M18477	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1191718
M18477	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0894553
M18477	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09232683
M18477	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1516707
M18477	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.139032
M18477	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0839131
M18477	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1252237

M18494	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256771
M18494	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2007802
M18494	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2478299
M18494	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1837197
M18494	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.19629837
M18494	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.177056
M18494	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3070904
M18494	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2010539
M18494	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1785725
M18494	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1997902
M18494	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2663267
M18494	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1776542
M18494	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2085964
M18494	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31227251
M18494	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1795897
M18494	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2980603
M18497	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1714496
M18497	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22125657
M18497	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__I	0.17576963
M18497	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2321046
M18497	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.16757682
M18497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.417127
M18497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2086378
M18497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2236448
M18497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1750151
M18497	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2218407
M18497	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2032932
M18497	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1992293
M18497	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2217628
M18497	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.34615584
M18497	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2149244
M18497	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.2134579
M19130	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.17380081
M19130	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17848878
M19130	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17493383
M19130	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2619844
M19130	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.26296216
M19130	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.16380577
M19130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.23933552
M19130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.25248894
M19130	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2540024
M19130	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24430041
M19130	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1771195
M19130	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.19836259
M19130	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.28587758
M19130	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.31558435
M19130	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.26237207
M19130	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.16764292
M19130	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.17354
M19130	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.15958969

M19130	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.26334197
M19130	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2530594
M19130	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19552169
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.19694582
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.16207978
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.19552169
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1765121
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.2163046
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2526574
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.29576188
M19130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1859775
M19130	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.23858738
M19130	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.17186408
M19130	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.1778113
M19130	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.27597432
M19130	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1874064
M19130	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.16059077
M19263	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2227765
M19263	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.22646134
M19263	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.284333
M19263	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.29546723
M19263	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2183671
M19263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.29983241
M19263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.27683297
M19263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2848653
M19263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2357088
M19263	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2781442
M19263	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.34926913
M19263	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2776304
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.34087275
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2176381
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1928029
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.258533
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.28884477
M19263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2238207
M19263	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.20387993
M19263	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2344243
M19263	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.23317166
M19324	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23621862
M19324	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17945101
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M19324	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2369462
M19324	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3395259
M19324	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3836357
M19324	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2706735
M19324	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.18291963
M19324	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1841634
M19324	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23473678
M19324	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2284288
M19324	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20700406

M19324	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2282513
M20676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.09465131
M20676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10114311
M20676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0931808
M20676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0905282
M20676	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08074965
M20676	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0768796
M20676	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08507211
M20691	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0999819
M20691	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.10268176
M20691	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1555817
M20691	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1498299
M20691	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0937707
M20691	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1169137
M20691	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0855237
M20691	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0978832
M20691	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.09094009
M20691	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08619089
M20691	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08725554
M20691	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1007888
M20691	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantr	-0.0954307
M20691	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1582161
M20691	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1175373
M20703	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10470167
M20703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19801163
M20703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.14223117
M20703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1791192
M20703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0922384
M20703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0905138
M20703	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0866793
M20703	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0790898
M20703	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18274332
M20703	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.07866736
M20703	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.12302098
M20758	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0863905
M20758	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0925548
M20758	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1915245
M20758	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0961004
M20758	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1357626
M20758	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09729186
M20758	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10193261
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2725247
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1402095
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1076678
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2036277
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.111404
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0979461
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1169697
M20758	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07826857
M20758	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1420432

M20758	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08164787
M20758	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chro	-0.0814148
M20758	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1553423
M20758	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31120422
M20758	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0961498
M20758	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1771655
M21046	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2957234
M21046	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19710645
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M21046	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2753026
M21046	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2145975
M21046	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.25561332
M21046	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.22028
M21046	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.2138708
M21046	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.22493797
M21046	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.18564755
M21046	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.18564755
M21046	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1830998
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M21046	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.30115246
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M21127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1421529
M21127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09146899
M21127	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10227347
M21127	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08062752
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M21127	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.08873795
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M21133	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.47091494
M21133	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2074624
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M21133	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.26377574
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M21151	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2776652
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M21183	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.28163396
M21183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2061154
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M21183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.2533076
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M21183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2461716
M21183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22310963
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M21183	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.26995885
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M21184	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3311505
M21184	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2120856
M21184	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17866889

M21184	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2797951
M21184	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.2026436
M21184	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.189329
M21184	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2029838
M21184	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2189231
M21184	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1705047
M21184	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.199211
M21184	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19934393
M21184	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2076279
M21184	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3265029
M21184	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23371144
M21184	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2008884
M21184	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.23044854
M21184	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.171971
M21184	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.20684352
M21184	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1808033
M21184	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.20515736
M21184	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2023837
M21189	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19247215
M21189	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.22031254
M21189	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22347142
M21189	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.38340489
M21189	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21536561
M21189	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2169219
M21189	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.34722455
M21189	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.56756413
M21189	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2289024
M21189	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.24760302
M21232	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2188666
M21232	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2184163
M21232	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2346166
M21232	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2403959
M21232	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.292629
M21232	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1862037
M21232	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17690576
M21232	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2145943
M21232	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.17993106
M21232	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2311104
M21300	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23954857
M21300	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2115175
M21300	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2653749
M21300	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2799011
M21300	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22080723
M21300	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2038797
M21300	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.19763795
M21300	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36370682
M21300	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.22584737
M22116	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09642189
M22116	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09236471
M22116	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10360192

M22116	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11972195
M22116	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0861244
M22116	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.102359
M22116	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1083672
M22116	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.0954802
M22116	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.0888269
M22118	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1240787
M22118	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0944985
M22118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.090863
M22118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09106821
M22118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.095254
M22118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0820582
M22118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.0904883
M22118	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0800104
M22118	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10419641
M22118	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0886186
M22118	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.089878
M22118	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0834988
M22118	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0881905
M22120	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1678189
M22120	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.0836118
M22120	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.181249
M22120	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1170046
M22120	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1119697
M22120	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1048988
M22120	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0900787
M22120	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.104325
M22120	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0917759
M22120	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1218087
M22120	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22670659
M22120	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0912308
M22120	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1604324
M22130	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.123939
M22130	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0940233
M22130	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.0812652
M22130	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0941791
M22130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1980351
M22130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1363028
M22130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0901026
M22130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.119709
M22130	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1307796
M22130	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1003208
M22130	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0829204
M22130	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0946626
M22130	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1353567
M22130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.132387
M22130	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13122644
M22130	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1260793
M22130	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0911931
M22132	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08745196

M22132	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0862847
M22132	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08661227
M22132	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.11033992
M22132	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.1254028
M22132	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1018834
M22132	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0858288
M22138	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0865931
M22138	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1089081
M22138	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.07264175
M22138	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08174641
M22138	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.07842018
M22138	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10909953
M22138	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.2716569
M22138	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0979634
M22138	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.252069
M22138	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0768152
M22138	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21872576
M22138	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11645979
M22138	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08505198
M22138	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1152793
M22138	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.0730381
M22138	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0931616
M22138	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1033857
M22138	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0772257
M22138	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1964666
M22176	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1178242
M22176	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1299256
M22176	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1523912
M22176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0874152
M22176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.209983
M22176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1534514
M22176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10610533
M22176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1040995
M22176	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0875554
M22176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1650987
M22176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1391513
M22176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1096339
M22176	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1195358
M22177	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09174217
M22177	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09186451
M22177	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.173172
M22177	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0810995
M22177	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0807734
M22177	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0969582
M22185	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0799657
M22185	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0855237
M22185	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.089563
M22185	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.11797621
M22185	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.07764382
M22185	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09084044

M22185	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.08552287
M22185	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1734932
M22185	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1273228
M22185	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0972531
M22185	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11526161
M22185	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11387721
M22185	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08775277
M22185	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0879601
M22185	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0877765
M22185	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17916796
M22185	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08019788
M22206	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25982811
M22206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.28190329
M22206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.20525094
M22206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.30466219
M22206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroç	0.2208448
M22206	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1852584
M22206	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.22978543
M22206	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21676532
M22206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.21340608
M22206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33571621
M22206	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.305496
M22206	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.23897997
M22206	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.20780264
M22273	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1645811
M22273	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.17629692
M22273	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18522868
M22273	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1696493
M22273	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2624315
M22273	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.19470233
M22273	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.16287594
M22273	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22926712
M22273	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.29353715
M22273	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.2495417
M22273	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35822694
M22273	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1793776
M22273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21809287
M22273	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.17304623
M22273	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.19512357
M22273	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.23475506
M22273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18207373
M22273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20952578
M22273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.19699662
M22273	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.19499279
M22273	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.26691754
M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23410522
M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1801068
M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.26691754
M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20631935
M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.21951272

M22273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.27021608
M22273	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.16296096
M22842	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0908395
M22842	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1235798
M22842	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1285731
M22842	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07908096
M22842	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07978093
M22842	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.07808242
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2264333
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.177504
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0956069
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1238251
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09569214
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1029744
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1155802
M22842	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09872012
M22842	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0811114
M22842	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14749755
M22842	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12444642
M22842	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0883536
M27414	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0784093
M27414	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0935672
M27414	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09617859
M27414	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1369142
M27414	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10080492
M27414	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.12097792
M27414	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07861813
M27414	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0861507
M27414	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0826591
M27414	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08113276
M27414	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0871687
M27447	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0990472
M27447	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0843001
M27447	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0797666
M27447	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0913382
M27447	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1023512
M27447	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0794456
M27447	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1062387
M27513	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11247785
M27513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0968886
M27513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11435352
M27513	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0793884
M27513	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.12663034
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1978554
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1424185
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1280533
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1235318
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0987374
M27513	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10335361
M27513	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16829631

M27513	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0845564
M27513	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae	-0.1141843
M27514	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.1907581
M27514	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	-0.1891493
M27514	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.1872429
M27514	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.3042871
M27514	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.2219388
M27514	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.1737313
M27514	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellales	0.35794194
M27536	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.25712176
M27536	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.3393382
M27536	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__Gaiellales	0.23754351
M27536	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.23334943
M27536	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.3495246
M27536	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2407947
M27536	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	0.27093025
M27536	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__Deferribacteres	0.25840877
M27536	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.27175235
M27536	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.25544623
M27536	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales.f__Gemmatales	0.27878196
M27536	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Pirellulales	0.311363
M27536	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	0.22861346
M27536	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__Rhodospirillales	0.29642779
M27536	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales.f__Thiotrichales	0.25577406
M27536	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadales	0.32612154
M27536	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.2359924
M27553	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.19209971
M27553	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.3081176
M27553	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	0.20230562
M27553	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__Actinomycetales	-0.2322324
M27553	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	0.26192004
M27553	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__Deferribacteres	0.29774445
M27553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	0.20158468
M27553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.20626491
M27553	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.24726149
M27553	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales.f__Gemmatales	0.22706729
M27553	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia.f__Planctomycetia	-0.2324368
M27553	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__Caulobacteriales	0.19543276
M27553	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	0.30557146
M27553	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales.f__Nitrospirales	0.22149843
M27553	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales.f__Myxococciales	0.30437409
M27553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__Legionellales	0.23317512
M27553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f__Legionellales	-0.2316884
M27553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales.f__Mariprofundales	0.30437409
M27553	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales.f__Thiotrichales	0.24202848
M27553	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__Spirochaetales	0.23222118
M27553	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Cerasicoccales	-0.2352582
M27553	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerales.f__Pedosphaerales	0.18502993
M27553	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobia.5.o__WCHB1.41.f__RF	0.25444641
M27665	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.3080811

M27665	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2222172
M27665	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19300593
M27665	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.253237
M27665	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2119277
M27673	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.0926138
M27673	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0797349
M27673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0826183
M27673	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0963618
M27673	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0993989
M27673	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0821301
M27673	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0888687
M27673	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0915232
M27673	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0738818
M27673	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0849011
M27673	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.08359
M27673	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.090336
M27673	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.07614632
M27673	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1037266
M27680	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07902211
M27680	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.090663
M27680	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	0.08620892
M27680	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08655138
M27680	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08055871
M27680	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0985175
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2173058
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0860242
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2055662
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0817298
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15773279
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1016004
M27680	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14104771
M27680	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11843019
M27680	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1387914
M27710	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0828661
M27710	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.105214
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M27710	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.09681836
M27710	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0827891
M27710	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0828661
M27710	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.1143106
M27710	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1051547
M27710	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0812492
M27710	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoci	0.17431991
M27710	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0828661
M27710	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0828661
M27710	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0808872
M27710	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0848815
M27710	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0828661

M27710	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0828661
M27710	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0828661
M27718	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13554768
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M27718	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09410809
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M27718	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07979957
M27718	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10922923
M27718	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08495479
M27718	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellace	0.09232169
M27718	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08409955
M27718	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1336845
M27718	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09453779
M27718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.15257351
M27718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10729486
M27718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.10001102
M27718	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__f	-0.1144031
M27718	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.08952047
M27719	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1043083
M27719	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0841526
M27719	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.116222
M27719	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1095822
M27719	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1125425
M27719	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0951097
M27719	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0952097
M27719	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08118334
M27719	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09247279
M27719	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0998224
M27719	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09937509
M27719	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1090999
M27722	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12405217
M27722	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0869771
M27722	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0987809
M27722	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellace	0.08990732
M27722	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1279536
M27722	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0857338
M27722	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10274062
M27722	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08069413
M27731	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.084621
M27731	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.10366294
M27731	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	0.07599057
M27731	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.0812718
M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.084621
M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07691712
M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809779
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M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0982596
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M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0900414

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M27731	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10248113
M27731	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.07599057
M27731	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.07777965
M27731	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.11073952
M27731	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.07810944
M27731	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.07599057
M27731	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.07599057
M27731	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.07599057
M27731	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__I	-0.1193046
M27731	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	0.07599057
M27731	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0759906
M27731	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.0893824
M27731	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.09194927
M27731	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.09810204
M27731	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales.f__Turicib	0.15005457
M27731	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16269027
M27731	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.11026067
M27731	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.08499078
M27731	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1327516
M27731	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	0.07599057
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M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07848291
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07599057
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1151579
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.07599057
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0863314
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.07589296
M27731	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08516591
M27731	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12770194
M27731	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12913557
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0759906
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.07599057
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.07599057
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.07870755
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09049203
M27731	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0804448
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M27731	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.08091425
M27731	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09563532
M27731	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09049203
M27731	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08971091
M27731	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14057502
M27731	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.11300656
M27731	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0848719
M27731	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.12124629
M27731	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.07599057
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M27738	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1303149
M27738	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__S	0.0828845
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.2741076
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2034307
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0841172
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1530318
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1030815
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13292961
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.095579
M27738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11160186
M27738	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11250683
M27738	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0900278
M27738	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12090492
M27738	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0818088
M27738	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0928818
M27738	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.101304
M27738	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16119509
M27738	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1377657
M30460	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.2167292
M30460	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18276826
M30460	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1636888
M30460	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.23290885
M31530	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1352212
M31530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.0970512
M31530	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.086095
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M31532	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1654495
M31532	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0893033
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M31532	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0952293
M31532	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09696061
M31532	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0932191
M31532	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2114971
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M31539	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1300772
M31539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0988398
M31539	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.081372
M31539	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1080751
M31539	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.081842
M31555	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08620528
M31555	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0889243
M31555	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1313349
M31555	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0817568
M31555	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09204636
M31555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0867654
M31555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08620528

M31555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.084809
M31555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0817568
M31555	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0811627
M31555	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.114309
M31555	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0817568
M31555	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1102594
M31555	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11756376
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M31555	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0817568
M31555	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.0817568
M31555	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0817568
M31555	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0817568
M31555	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.1024251
M31555	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycidae.o__Nostocales	0.08175679
M31555	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08603113
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M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0874112
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0889456
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1932145
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1757387
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1074629
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1349795
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0904113
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0844482
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1154321
M31555	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.0817568
M31555	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1001901
M31555	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1037363
M31555	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0996143
M31555	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0817568
M31555	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0817568
M31555	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0800095
M31555	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0917584
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08175679
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0817568
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0878251
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0817568
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09537252
M31555	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08620528
M31555	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09836377
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0804326
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0948893
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0897067
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09906154
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0848973
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0857628
M31555	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.107434
M31555	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2313361
M31555	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1037722
M31555	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasioccales.f__	-0.1052773

M31555	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0817568
M31555	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09208929
M31555	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0953686
M31675	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaer	-0.1747543
M31675	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1733757
M31675	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1747543
M31675	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17873031
M31675	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1660119
M31675	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19537376
M31675	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.213202
M31675	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.24376026
M31675	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.21910201
M31675	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18059686
M31675	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.25080682
M31675	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2620841
M31675	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.19329215
M31675	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19544028
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.43189564
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25217093
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.22866082
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.17976227
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26497463
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.18287923
M31675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	0.19664552
M31675	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.17863624
M31675	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.19936996
M31675	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19999145
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.1951764
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2123123
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.16739177
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.17529776
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.17086917
M31675	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1747543
M31675	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1896319
M31675	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.16013019
M31675	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2828628
M31675	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.17863763
M31675	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1734405
M31675	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.17546067
M31675	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.26165324
M31787	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2978558
M31787	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2026185
M31787	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1928498
M31787	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20217018
M31850	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.176821
M31850	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1914363
M31850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2146859
M31850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2329769
M31850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1885661
M31850	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1858201

M31850	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1771676
M31850	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3031386
M31850	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1697898
M31850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23391467
M31850	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1790949
M31891	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10855544
M31891	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.10532006
M31891	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.079362
M31891	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0794961
M31891	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.096768
M31891	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0965062
M31891	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.14863732
M31891	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.17344952
M31891	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13725577
M31891	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0856549
M31891	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1464587
M31891	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1084835
M31891	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1053008
M31891	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1765644
M31891	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.08186408
M31891	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1019578
M31891	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.0975712
M31904	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.238286
M31904	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2555943
M31904	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19265512
M31904	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3770627
M31904	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2680596
M31904	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1856478
M31904	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2193388
M31904	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22674827
M31904	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3142061
M31904	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.20991798
M31904	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3454049
M31906	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.22527681
M31906	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23045941
M31906	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4416467
M31906	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3237792
M31906	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2792471
M31906	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2489008
M31906	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2829047
M31906	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25132943
M31906	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.27339901
M31906	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2896355
M31912	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20547648
M31912	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.21824425
M31912	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1915947
M31912	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1718569
M31912	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22008243
M31912	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1967244
M31912	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1782171

M31932	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08338081
M31932	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08224073
M31932	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0890545
M31932	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08594818
M31932	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12117853
M31932	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09649132
M31938	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0780589
M31938	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0771935
M31938	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1043621
M31938	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0874521
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0841133
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12933744
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08133494
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10802889
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0816805
M31938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0952726
M31938	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0801089
M31938	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0876006
M31938	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0913649
M31938	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.109791
M31943	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2044067
M31943	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.198647
M31943	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2094162
M31943	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3921963
M31943	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2894059
M31943	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3679454
M31943	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.186004
M31943	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2407504
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7590278
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8843355
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2718497
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4211725
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2385864
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2286469
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2918001
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2149764
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2551764
M31943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18311516
M31943	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.28615084
M31943	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3502953
M31943	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1912165
M31943	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.1767573
M31943	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20848106
M31943	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19767376
M31943	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1732092
M31943	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2680133
M31943	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.185212
M31943	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2436872
M31943	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.353858
M32197	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0919176

M32197	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1370003
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1687507
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0819644
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.138648
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1139413
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1336366
M32197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1138182
M32197	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	-0.1050436
M32197	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0782139
M32197	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1089628
M32197	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1267812
M32197	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09471167
M32197	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0883024
M32197	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0861247
M32198	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2676294
M32198	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1906684
M32198	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2348034
M32198	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.19600298
M32306	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0938558
M32306	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1337066
M32306	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.0804932
M32306	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1346888
M32306	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1021927
M32306	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1735576
M32306	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10696077
M32306	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.15966839
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2354981
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1225524
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0858604
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08606645
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0980806
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1077988
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1204036
M32306	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08796325
M32306	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09648341
M32306	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0920299
M32306	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23939646
M32306	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0986159
M32306	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1608656
M32342	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2389316
M32342	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2007253
M32342	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2269017
M32342	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2408806
M32342	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.23766572
M32342	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.28472719
M32342	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25316114
M32342	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2275927
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3631801
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.238946
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2273047

M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2012079
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2140291
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.240009
M32342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2028147
M32342	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.20974297
M32342	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3408335
M32342	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22550672
M32342	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2162413
M32342	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.1939309
M32342	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.32233118
M32342	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2083635
M32342	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2980048
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2136197
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1939309
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2880819
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1961669
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2730495
M32342	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.26755705
M32342	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.3304231
M32342	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.3546757
M32342	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2886007
M32346	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1152667
M32346	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0934445
M32346	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08182601
M32346	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934445
M32346	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934445
M32346	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837376
M32346	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0801136
M32346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1126227
M32346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0960974
M32346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1246678
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M32346	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.08690958
M32346	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1027089
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M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0889761
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0888231
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1631293
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.101096
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1420366
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0976622
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.1326133
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09066334
M32346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0934445
M32346	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0934445
M32346	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1011841
M32346	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1028811

M32346	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0962201
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M32346	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1504615
M32346	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1104725
M32346	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1077085
M32346	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0864671
M32346	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0841401
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M32346	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.0844493
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0937523
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1104725
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0934445
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0947199
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0934445
M32346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1075745
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M32346	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0934445
M32346	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1148331
M32346	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.1085577
M32346	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0831289
M32346	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.0915595
M32346	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08165356
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M32349	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.11633288
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M32349	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09311774
M32349	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.08495594
M32349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1534469
M32349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0840253
M32349	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08101231
M32349	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.08288139
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M32349	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09212769
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M32350	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.117552
M32350	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1098611
M32350	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0852186

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M32352	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0830788
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M32352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08662742
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M32352	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1395288
M32352	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0849668
M32352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1056755
M32352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1229467
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M32352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0898661
M32352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08267065
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M32352	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0852222
M32352	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0872956
M32352	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0854165
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M32377	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.13102
M32377	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0840767
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M32377	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0871899
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M32377	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1506366
M32377	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12158949

M32377	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.1478968
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M32388	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	0.09565848
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M32388	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1050961
M32388	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09805799
M32388	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0782752
M32388	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0837537
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M32388	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0945697
M32388	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0755377
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M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.24049205
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.27534849
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.18190399
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubactr	0.08388286
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0920563
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13451973
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.15404341
M32388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0895848
M32388	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.17246028
M32388	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0781386
M32388	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1198587
M32388	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0773749
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M32388	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09864088
M32390	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1143679
M32390	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0946805
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M32390	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08646722
M32390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1426503
M32390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13311983
M32390	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.156666
M32390	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.105963
M32390	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0845819
M32390	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1500058
M32390	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12480258
M32390	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1094651

M32390	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1525554
M32391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09701377
M32391	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.0906944
M32391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10626057
M32391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.09476339
M32391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0937039
M32391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0924838
M32398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1211347
M32398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0726417
M32398	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11490245
M32398	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0887489
M32398	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.1128414
M32398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0792198
M32398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0703812
M32398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1241745
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.23663165
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25086462
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.11311174
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0827596
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08293596
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10196609
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.1274396
M32398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08433496
M32398	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.1556512
M32398	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.09966026
M32398	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0915852
M32398	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0797605
M32398	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1090669
M32398	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0884435
M32398	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0828652
M32398	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0825761
M32398	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.11289132
M32401	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0903985
M32401	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1207828
M32401	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.1205092
M32401	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.10722261
M32401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.285732
M32401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2199608
M32401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1145445
M32401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16153886
M32401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10838622
M32401	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.07852343
M32401	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1237636
M32401	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0897866
M32401	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1173021
M32405	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0908751
M32405	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1205521
M32405	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.13579
M32405	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.138527
M32405	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0843252

M32405	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0914196
M32405	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacterales	0.08838131
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.3300873
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteres	-0.2158317
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1386121
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.2067735
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.11098913
M32405	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.12569033
M32405	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.07806268
M32405	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	-0.1428269
M32405	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.1685614
M32405	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1062182
M32405	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.1001142
M32405	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1469542
M32405	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.25737453
M32405	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.1662446
M32405	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__Cerasiococcales	-0.10773
M32405	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1832741
M32413	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.32163619
M32413	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.1910056
M32413	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb1	-0.2734277
M32413	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.2159092
M32413	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.32163619
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M32413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.22046663
M32413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2301882
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M32413	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2734277
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M32413	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__Ignavibacteriales	0.30844929
M32413	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.2734277
M32413	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaerolineales	-0.2631038
M32413	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2159092
M32413	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.29062471

M32413	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	-0.2267057
M32413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2650313
M32413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2928082
M32413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2050918
M32413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.2734277
M32413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2159092
M32413	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2159092
M32413	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.270199
M32413	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2630806
M32413	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.31319476
M32413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob:	-0.2198961
M32413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2630806
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M32413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2289538
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M32413	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2734277
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M32413	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.32163619
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M32413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.251598
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M32413	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2159092
M32413	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.3028682
M32413	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2734277
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M32415	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(0.09232405
M32415	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.1010587
M32415	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.14536143
M32415	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09784486
M32415	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08725588
M32415	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09726444
M32415	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1011149

M32415	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.11241437
M32415	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae	0.09235432
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M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1406128
M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostrid	-0.0943954
M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1338567
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M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10987376
M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0964686
M32418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0827001
M32418	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.1031838
M32418	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0792784
M32418	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1063417
M32418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.099629
M32418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10993664
M32418	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.085824
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M32418	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1592261
M32425	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20728236
M32425	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2145237
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M32425	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.20446794
M32425	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.20027786
M32425	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.27967211
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.8401356
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7161468
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1857381
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2977894
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2722447
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21855483
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2474873
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.8165529
M32425	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2326636
M32425	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3149362
M32425	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2932789
M32425	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1902428
M32425	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18273939
M32425	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.4217599
M32426	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19668917
M32426	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23748588
M32426	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.26109379
M32426	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	-0.1942245
M32426	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2180256
M32426	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.2182245
M32426	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2757725
M32426	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.24643687
M32426	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2184709
M32426	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.33408059

M32426	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.27816198
M32426	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.244038
M32426	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.25119498
M32426	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2060008
M32426	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.24695451
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M32426	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.24060253
M32426	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantfr	0.23402047
M32426	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.21831638
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M32445	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19041063
M32445	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1924693
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M32445	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.21675916
M32445	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.18467794
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M32445	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6811481
M32445	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4500118
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M32445	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3651617
M32445	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2162805
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M32445	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19041063
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M32446	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4749505
M32446	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2518383
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M32455	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0898027
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M32457	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.22116201
M32457	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2526423
M32457	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2210822
M32457	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.25343745
M32457	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1992938
M32462	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2791422
M32462	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.2771199
M32462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2928771
M32462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23454997
M32462	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f	-0.2454474
M32462	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2742962
M32462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__E	-0.3307615
M32462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2948304
M32462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2458752
M32462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3064785
M32462	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.2803283
M32462	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2444335
M32462	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2851425
M32462	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.394146
M32462	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3125791
M32462	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3128817
M32462	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro:	-0.2089953

M32462	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2274914
M32462	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2820889
M32462	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2293213
M32462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2217197
M32462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2333414
M32462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2333414
M32462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2874312
M32462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2561826
M32462	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2634195
M32462	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2758847
M32462	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2740319
M32489	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0967699
M32489	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0934746
M32489	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0852417
M32489	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0889324
M32489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0947498
M32489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0938026
M32489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1129295
M32489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0782184
M32489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0923352
M32489	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0821673
M32489	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1001298
M32489	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1022777
M32489	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.102297
M32489	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0876258
M32489	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0915059
M32492	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0942915
M32492	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09478883
M32492	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	-0.1162613
M32492	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0980688
M32492	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.088117
M32492	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0980688
M32504	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.0744404
M32504	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1026
M32504	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0748196
M32504	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0855502
M32504	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.073073
M32504	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1667934
M32504	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0742523
M32504	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0810347
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2934972
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1705469
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2530132
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.116024
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14048948
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1211544
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1771114
M32504	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1619374
M32504	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13567906
M32504	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0788486

M32504	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0950439
M32504	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13118118
M32504	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0930879
M32504	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.08274
M32504	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0752082
M32504	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2143281
M32506	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.19803483
M32506	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21921845
M32506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.192012
M32506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2481958
M32506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2654516
M32506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2245339
M32506	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.21297667
M32506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2029238
M32506	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.20066436
M32506	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.19712346
M32506	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2220606
M32562	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3465283
M32562	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.4027459
M32562	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4692433
M32562	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4939968
M32562	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2212611
M32562	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2822906
M32562	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.35944942
M32562	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.2051667
M32562	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3669167
M32599	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.24657002
M32599	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1854964
M32599	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.33441771
M32599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.23581188
M32599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2300683
M32599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28088844
M32599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22775886
M32599	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3020361
M32619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.28307965
M32619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2564216
M32619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.4404037
M32619	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.26008103
M32619	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.21723644
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7785361
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8352331
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2941128
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.271218
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.38978343
M32619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.5453027
M32619	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3170551
M32619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.28076341
M32619	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.5617147
M32620	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.10048411
M32620	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.08932374

M32620	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09489347
M32620	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08562332
M32620	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1273066
M32807	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.235302
M32807	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.18999698
M32807	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23981317
M32807	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3888189
M32807	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3171448
M32807	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.336327
M32807	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23429659
M32807	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.18570187
M32807	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3309525
M32807	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1812596
M32807	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22428288
M32807	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2128735
M32980	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22996925
M32980	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2234734
M32980	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2187142
M32980	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2795176
M32980	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.18758253
M32980	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3633365
M32980	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2385992
M32980	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2342157
M32980	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.1908121
M32980	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.1916402
M32980	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2218474
M32980	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.22887
M32980	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	-0.2126576
M32980	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2056722
M32980	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2127375
M32980	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3129487
M32980	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2721428
M32980	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2090892
M32980	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2116339
M32980	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2220711
M32984	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0875857
M32984	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0977608
M32984	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0871818
M32984	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0844037
M32984	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1460897
M32984	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0937934
M32984	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0849921
M32984	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1039976
M32984	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1016477
M32984	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1536352
M32984	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1043271
M32984	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.14048074
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3414687
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1062387
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2859767

M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1897919
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2235356
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1572771
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1187086
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.089944
M32984	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0925258
M32984	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0901376
M32984	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1493578
M32984	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0939911
M32984	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1183476
M32984	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0856214
M32984	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1033537
M32984	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08069681
M32984	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0968405
M32984	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1420445
M32984	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16852597
M32984	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1599664
M32984	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1293176
M32984	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1547461
M33013	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1331978
M33013	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.129176
M33013	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1365527
M33013	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10142661
M33013	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1225552
M33013	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09324135
M33013	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1106372
M33013	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1244307
M33021	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.20814628
M33021	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.233843
M33021	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1836486
M33021	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.17594962
M33021	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.2069641
M33021	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1920181
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.60380646
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.50290824
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.225686
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.28799104
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2817792
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.20306605
M33021	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2142186
M33021	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1696297
M33021	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2331702
M33021	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25693306
M33021	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24225001
M33021	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2865396
M33021	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.18901936
M33021	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.33731739
M33418	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2756909
M33418	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22293129
M33418	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1994023

M33418	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3925034
M33418	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.20588026
M33418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.210308
M33418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2509959
M33418	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2407115
M33418	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.25705696
M33418	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.27850677
M33418	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2882019
M33418	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2493095
M33418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.262085
M33418	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.20207582
M33418	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.24016563
M33418	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2114162
M33418	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26849635
M33418	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.28404479
M33418	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2935057
M33418	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2015444
M33418	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3154624
M33418	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.2265529
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2120923
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.20119914
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2704242
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2305087
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.2265529
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.19922
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1838516
M33418	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.19497368
M33418	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.29731438
M33418	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2314879
M33418	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.24394226
M33422	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0859768
M33422	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1583959
M33422	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.0921846
M33422	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1176427
M33422	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1315217
M33422	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.11535103
M33422	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.092453
M33422	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1468464
M33422	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1440068
M33422	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09915031
M33422	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0989531
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M33442	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.1047875
M33442	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0837419
M33442	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1275979
M33442	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.07875939
M33442	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0859841
M33442	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0873398
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M33442	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1635701
M33442	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1446075
M33442	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.0860127
M33442	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1080739
M33442	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.092577
M33442	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0805886
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M33442	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0873623
M33442	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0934728
M33442	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0837419
M33442	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.088647
M33442	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.096529
M33442	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1086493
M33442	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1047007
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1102142
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1877672
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0875463
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1093249
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.138192
M33442	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0837419
M33442	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0803254
M33442	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0837419
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M33442	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0981164
M33442	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.089538
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M33442	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0837419
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M33442	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0837419
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M33442	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0837419
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M33442	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.117432
M33442	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.07878243
M33442	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1078129
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M33442	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.083314
M33443	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0968913
M33443	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11356499
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M33443	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12108295
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M33443	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0833429
M33443	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.12780415
M33443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09403609
M33443	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.089926
M33443	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.08135901
M33443	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0907623
M33443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1131331
M33443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.11633739
M33443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1058634
M33443	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08400345
M33443	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0917578
M33444	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09813936
M33444	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.093444
M33444	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0927254
M33444	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0917676
M33444	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1607304
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M33447	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08144362
M33447	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1059134
M33447	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1647571
M33447	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.119863
M33447	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.160007
M33447	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13769946
M33447	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1458848
M33447	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10021461
M33447	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0890019
M33447	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08169977
M33447	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1474677
M33471	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0849225
M33471	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10790373
M33471	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09161985
M33471	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08013346
M33471	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08408744
M33471	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2288918
M33471	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1610009
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M33471	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1666372
M33471	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0842912
M33471	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08402594
M33471	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1669502
M33471	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18491357
M33471	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.154956
M33487	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.12997709
M33487	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08228854
M33487	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08217624
M33487	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0897231

M33487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0830031
M33487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15706721
M33487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0940646
M33487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09937868
M33487	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08329652
M33587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1112146
M33587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0914765
M33587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1083304
M33587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.132138
M33587	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08305637
M33934	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0956621
M33934	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0793665
M33934	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0870346
M33934	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.303564
M33934	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1462747
M33934	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1011678
M33934	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.141039
M33934	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12622664
M33934	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1132183
M33934	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1410891
M33934	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992669
M33934	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09826426
M33934	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.078658
M33934	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1015088
M33934	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1268808
M33935	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0978121
M33935	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1001032
M33939	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10741636
M33939	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09370194
M33939	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1425217
M33939	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12906502
M33939	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0855103
M33939	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1287831
M33942	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1035584
M33942	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.085237
M33942	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0942798
M33942	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10250238
M33942	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1409697
M33942	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09104262
M33942	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.07679907
M33942	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10132471
M33942	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0916276
M33942	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.102689
M33942	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0833251
M33942	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0851783
M33942	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0783126
M33942	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1016179
M33943	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07769587
M33943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14713648
M33943	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09374481

M33943	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.09637181
M33943	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1070484
M33943	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0890507
M33943	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0829027
M33946	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1079702
M33946	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1300863
M33946	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0851475
M33946	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0837001
M33946	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09091205
M33946	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.09120962
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2647016
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1036433
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.187342
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1366117
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0883173
M33946	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12205604
M33946	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1509095
M33946	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1589504
M33946	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1009675
M33946	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1794088
M33946	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16599517
M33946	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1616789
M33946	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1401537
M33946	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1585489
M33949	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08558736
M33949	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10057636
M33949	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.0900884
M33949	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09032019
M33949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.09577776
M33949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12018748
M33949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12928147
M33949	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.14123793
M33949	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.14365189
M33949	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09506704
M33949	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10935703
M33949	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.08591012
M33950	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1381822
M33950	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1158821
M33950	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1043945
M33950	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1153835
M33950	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08301448
M33950	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.154586
M33950	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1255421
M33950	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09668313
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1774168
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1249884
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0826608
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0803674
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08427976
M33950	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1101401

M33950	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1281443
M33950	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	-0.0808789
M33950	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0913452
M33950	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0993402
M33950	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1362106
M33950	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09834993
M33950	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1172992
M33950	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0834589
M33950	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0969931
M33953	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1178365
M33953	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1679265
M33953	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1695848
M33953	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.14064601
M33953	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0846863
M33953	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1051759
M33953	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0976233
M33953	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1176494
M33953	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0972047
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0939258
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.219366
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0901044
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1367871
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1038036
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12869311
M33953	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1001498
M33953	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.164117
M33953	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09290796
M33953	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.13804
M33953	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0905288
M33953	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0984964
M33953	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0951683
M33953	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1412048
M33953	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0985915
M33953	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1172336
M33953	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1354253
M33953	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1361481
M33955	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1490849
M33955	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1204226
M33955	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1067282
M33955	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0999513
M33955	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0902893
M33955	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0874198
M33959	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08061027
M33959	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.07925801
M33959	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08766779
M33959	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09477224
M33959	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12996884
M33959	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09132342
M33959	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09596282
M33959	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.1073569

M33959	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08600858
M33959	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08757245
M33959	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09062883
M33959	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1063568
M33959	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0923366
M33959	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.10748013
M33961	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08308615
M33961	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.08876465
M33961	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08840882
M33961	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11592053
M33961	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09190877
M33961	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10346594
M33965	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.19180445
M33965	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.17416627
M33965	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.210524
M33965	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3276757
M33965	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1861851
M33965	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19774142
M33965	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.19611494
M33965	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.26655
M33967	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1074321
M33967	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0886556
M33967	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0847968
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M33967	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08094462
M33967	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1166967
M33967	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1007056
M33967	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10648931
M33967	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10346531
M33967	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1086374
M33967	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1117174
M33967	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10701236
M33967	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0817176
M33967	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0928958
M33967	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.08154158
M33968	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10963635
M33968	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0924527
M33968	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0853776
M33968	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0914059
M33968	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.10175818
M33968	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10421762
M33968	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1207179
M33969	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2842009
M33969	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2083984
M33969	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2655821
M33969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4503292
M33969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2857686
M33969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2747084
M33969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21268012
M33969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3110546

M33969	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2530322
M33969	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2729746
M33969	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3690426
M33971	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0970509
M33971	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0894895
M33971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0993454
M33971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1271065
M33971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1035038
M33971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0855358
M33971	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07846179
M33971	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08158951
M33971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.17402896
M33971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1329981
M33971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08126467
M33971	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0805265
M33972	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.32320324
M33972	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.20667579
M33972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32320324
M33972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2049436
M33972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24912532
M33972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4350926
M33972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1905158
M33972	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.3909066
M33972	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.498674
M33972	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3107453
M33972	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.42647374
M33972	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.28605595
M33972	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	-0.2692868
M33972	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.20622032
M33972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.4407819
M33972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2214473
M33972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1931169
M33972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2728472
M33972	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2404133
M33972	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.4084183
M33972	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2268069
M33972	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.231842
M33972	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1965857
M33972	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319.	-0.270766
M33972	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.3578971
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M33972	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1899273
M33972	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2204655
M33972	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.3852419
M33972	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.30928113
M33972	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2386847
M33972	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.32320324
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2183526
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2047401
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.5732803

M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3249479
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M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.2386847
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2465333
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.29626264
M33972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2253242
M33972	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2192576
M33972	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.32420438
M33972	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.20401279
M33972	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.305933
M33972	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.20735546
M33972	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.25328912
M33972	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3492526
M33973	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20843801
M33973	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2931506
M33973	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.2346291
M33973	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.24029608
M33973	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2042569
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4437834
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2107905
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5626314
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23122562
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2205555
M33973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3584845
M33973	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.23620264
M33973	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3101718
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M33997	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09916043
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M33997	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.1038452
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M33997	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.086691
M33997	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0890503
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M33997	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1417717
M33997	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.1081133
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M33997	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0928701
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M33997	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.093539
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M34035	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0828504
M34035	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08899194
M34035	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0909961
M34093	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.0877635
M34093	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.08365792
M34093	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09712544
M34093	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0865049
M34093	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.10895885
M34093	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10091631
M34093	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.11760656
M34093	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0838133
M34093	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08397897
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M34381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1271486
M34381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1144866
M34381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1660825
M34381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0994058
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M34381	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.14406
M34381	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08831108
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M34381	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1129379
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M34384	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08225583
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M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1412836
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2315712
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1171276
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2032089
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16156956
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1135672
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1268796
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1225628
M34384	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0964551
M34384	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0949975
M34384	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.09482267
M34384	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1453391
M34384	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10132623
M34384	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.109663
M34384	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1121213
M34384	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2123681
M34387	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09625838
M34387	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0783455
M34387	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0828
M34387	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0925558
M34387	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0829802
M34387	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.07868148
M34387	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07966624
M34387	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0791324
M34387	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1095625
M34387	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08684039
M34387	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.07902333
M34389	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1908878
M34389	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.2068103
M34389	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1885252
M34389	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2278015
M34389	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.16939799

M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.677564
M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5242401
M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2670227
M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32631322
M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2753873
M34389	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2533195
M34389	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3450075
M34389	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2252509
M34389	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25055538
M34389	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2201153
M34389	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2110081
M34389	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.296172
M34390	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2185339
M34390	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2212601
M34390	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2807705
M34390	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2510238
M34390	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2902727
M34390	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1867119
M34390	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.18291021
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.5540388
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.325717
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.237316
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2363142
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.175274
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.209453
M34390	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2905061
M34390	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1990265
M34390	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2064679
M34390	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1858844
M34390	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2461699
M34391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28529337
M34391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2143424
M34391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2066468
M34391	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.2545565
M34391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.26024004
M34391	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2105988
M34391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2018035
M34391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2240124
M34391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.26403622
M34391	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2333118
M34391	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2537407
M34393	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.23185532
M34393	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.19226878
M34393	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2246429
M34395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34061142
M34395	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2832516
M34395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.24104966
M34395	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2394232
M34395	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.27092392
M34395	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.2650159

M34395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2662188
M34395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2694759
M34395	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.232154
M34395	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.26094528
M34395	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2567367
M34395	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.42504174
M34395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.22736448
M34395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26306621
M34395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2118121
M34395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2734898
M34395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2171717
M34395	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.25962138
M34395	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.26804465
M34396	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10228078
M34396	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09309431
M34396	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.09285925
M34396	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0890022
M34396	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1106596
M34396	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10651729
M34396	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1128363
M34396	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1018183
M34396	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10414507
M34396	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1143312
M34396	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.1238155
M34398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07628526
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2439602
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1382319
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0782133
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1082583
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0864434
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07858011
M34398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08374845
M34398	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07882868
M34398	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1729714
M34398	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0933582
M34398	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1343925
M34398	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.127071
M34399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11811315
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2240858
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1450484
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0819714
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1048253
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10613875
M34399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08467066
M34399	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1251792
M34399	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08518976
M34399	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0842072
M34400	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0873175
M34400	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0963859
M34400	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09865669

M34400	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08733632
M34400	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09068896
M34400	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.09847106
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2668426
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2263763
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1050594
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1333243
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13211744
M34400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0988044
M34400	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1670047
M34400	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1231615
M34400	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0846051
M34400	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1453836
M34400	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0982274
M34401	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1932835
M34401	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2785356
M34401	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2421815
M34401	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1993416
M34401	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3587252
M34401	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3005679
M34401	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2494395
M34401	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2229359
M34401	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2208936
M34401	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.2101071
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1991926
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7545441
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4724217
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.324604
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.6032961
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2436126
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30713443
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2409423
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2221059
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2214782
M34401	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22603852
M34401	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3162915
M34401	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2600532
M34401	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2259688
M34401	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3920722
M34401	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2532484
M34404	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07878818
M34404	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07422967
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M34404	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.17499197
M34404	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.17854925
M34404	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0769622
M34404	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09005781
M34404	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1110013
M34404	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.1179596
M34404	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0854877

M34404	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0737683
M34404	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.08328734
M34404	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0777987
M34409	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1966922
M34409	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1966922
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M34409	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2603468
M34409	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3415408
M34409	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2591239
M34409	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.1966922
M34409	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.23680714
M34409	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.3337583
M34409	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2816043
M34409	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2414284
M34409	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2187409
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1962817
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.5412262
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5001028
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2714618
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2241112
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.4461098
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19317114
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2704346
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2592773
M34409	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.1966922
M34409	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1966922
M34409	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2414076
M34409	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.18972878
M34409	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2309943
M34409	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2285441
M34409	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2347607
M34409	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.22102465
M34409	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2690518
M34409	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3585814
M34409	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.22979306
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2777318
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2347607
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1966922
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1966922
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2620002
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2993437
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2673495
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1983023
M34409	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2438579
M34409	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1966922
M34409	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2029951
M34409	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.3173415
M34409	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1899816
M34409	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2252924

M34409	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.2188423
M34409	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__Verrucomicrobiae	-0.3352412
M34419	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria.f__Methanobacteria	-0.2419756
M34419	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.2504095
M34419	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2369127
M34419	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.2391073
M34419	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.2674911
M34419	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.30950846
M34419	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	0.46669382
M34419	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulik	0.35654908
M34419	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.f__Elusimicrobiales	-0.2205447
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.3883298
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.2735465
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2365085
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.4524264
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2707415
M34419	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales	-0.2235774
M34419	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospirales	-0.2335295
M34419	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales.f__Planctomycetiales	-0.3881979
M34419	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales.f__Rhizobiales	-0.2904832
M34419	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiales	-0.5976416
M34419	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales.f__Gallionellales	-0.2681473
M34419	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales.f__Nitrospirales	0.25646938
M34419	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.3915882
M34419	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.292207
M34419	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__Desulfobacteriales	-0.2903395
M34419	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales.f__Aeromonadales	-0.2664892
M34419	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f__Alteromonadales	-0.2681473
M34419	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__Enterobacteriales	-0.3209131
M34419	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirillales	-0.4337397
M34419	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales.f__Vibrionales	-0.285418
M34419	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.2987965
M34419	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.4793559
M34419	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcales	-0.2234869
M34419	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Cerasicoccales	-0.3016141
M34419	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutales	-0.3723615
M34424	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.10140053
M34424	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.09910693
M34424	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	0.09491748
M34424	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Oceanospirillales	-0.0958822
M34424	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.0845334
M34437	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2010388
M34437	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2153915
M34437	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacteriales	-0.2275369
M34437	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales.f__Solirubrobacterales	-0.1984195
M34437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1843354
M34437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.22939187
M34437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1868397
M34437	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	-0.1934489
M34437	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriales	-0.1942862

M34437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17924088
M34437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1967046
M34437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.18191346
M34437	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.32506933
M34437	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2509342
M34437	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1733908
M34437	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2041576
M34437	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.21788436
M34437	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2041686
M34457	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.08023
M34457	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1368083
M34457	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.12298284
M34457	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08823356
M34457	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0918717
M34457	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0903134
M34457	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.13027989
M34457	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1118443
M34457	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1125139
M34457	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09909377
M35101	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1184391
M35101	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0840979
M35101	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1258857
M35101	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0993265
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2719023
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2547193
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1051808
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.179718
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10128833
M35101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0828072
M35101	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1236622
M35101	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0932967
M35101	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1585774
M35101	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1171145
M35101	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.088504
M35107	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10667898
M35107	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0920287
M35107	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1035792
M35107	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0932286
M35114	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1051232
M35114	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1091945
M35114	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08374832
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3026659
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0804368
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.244238
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0825111
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1201159
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13681062
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1415075
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0928248
M35114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09019255

M35114	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07465374
M35114	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1220833
M35114	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1060179
M35114	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0773954
M35114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10458686
M35114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08529985
M35114	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1001544
M35114	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1777119
M35126	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2044445
M35126	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.17816343
M35126	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30376185
M35126	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.25740182
M35126	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1722892
M35126	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.281165
M35126	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1921807
M35126	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1926118
M35126	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1752717
M35136	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0835887
M35136	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0958027
M35136	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1203914
M35136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0958912
M35136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1138481
M35136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09054299
M35136	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__t	-0.0837526
M35136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0950771
M35136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1103536
M35136	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1007387
M35136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1137534
M35136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2467471
M35136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1214506
M35136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0832422
M35136	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0966277
M35136	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1221979
M35136	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0966725
M35136	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.186662
M35136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0867164
M35136	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0802965
M35136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1070093
M35136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0857867
M35136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1217315
M35136	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12228182
M35136	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1046699
M35136	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1475364
M35136	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1195736
M35157	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2114131
M35157	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2005494
M35157	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17620894
M35157	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.4588341
M35157	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18402929
M35157	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1817676

M35157	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.395078
M35157	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.219094
M35157	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2483847
M35157	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3094766
M35157	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2492582
M35157	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1923515
M35157	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2521276
M35157	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.234887
M35160	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1779043
M35160	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.22976266
M35160	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1779043
M35160	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1844251
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M35160	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.35621946
M35160	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.21959235
M35160	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.39687983
M35160	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22532873
M35160	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.35096024
M35160	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18056586
M35160	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2178064
M35160	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.25113077
M35160	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.33327022
M35160	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.32379734
M35160	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17486592
M35160	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2522599
M35160	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2389457
M35160	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.42435569
M35160	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20039213
M35160	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.3106937
M35160	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.28869208
M35160	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.20450006
M35160	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.25950601
M35160	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2454878
M35160	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.2395334
M35160	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.17735649
M35160	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.26374234
M35160	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.28334247
M35160	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1779043
M35160	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2036941
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.17410945
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.29619999
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.25061777
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.28334247
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.21560957
M35160	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.27008917
M35160	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.21911381
M35305	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2089812
M35305	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22769374
M35305	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.23080573
M35305	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.19057299

M35305	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2735846
M35305	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2262664
M35305	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1960313
M35305	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19592618
M35305	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17858059
M35305	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22981636
M35305	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2126397
M35305	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3578472
M35434	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.26133614
M35434	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.168471
M35434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2079121
M35434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.2278071
M35434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2014437
M35434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26398576
M35436	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18725298
M35436	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1796684
M35436	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1872214
M35436	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.17954225
M35436	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.20745777
M35436	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.17811315
M35436	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.31838687
M35436	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17769117
M35437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17029549
M35437	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27332304
M35469	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1264709
M35469	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0965331
M35469	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1038345
M35469	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08613195
M35469	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0875973
M35482	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.26027736
M35482	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6192681
M35482	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5140198
M35482	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2451225
M35482	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23448117
M35482	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.23661
M35482	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2126841
M35482	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3261239
M35482	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.3238271
M35482	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2557362
M35625	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1910639
M35625	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2117249
M35625	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1854407
M35625	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2321621
M35625	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3784312
M35625	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.22051
M35625	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1741075
M35625	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2561337
M35625	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.3572065
M35625	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2101123
M35625	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.19713146

M35625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1900597
M35625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4004899
M35625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2775622
M35625	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.1997666
M35625	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.2975037
M35625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2299112
M35625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1741054
M35625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17264218
M35625	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3262103
M35628	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	-0.2069013
M35628	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.2322573
M35628	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.222012
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M35628	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.24350338
M35628	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2395432
M35628	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.21470024
M35628	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3065059
M35628	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.28861207
M35628	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20876808
M35628	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25191187
M35628	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.22498321
M35628	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.47464789
M35628	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.252926
M35628	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3357867
M35628	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2084349
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M35628	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.27190725
M35628	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.23388504
M35628	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.227872
M35628	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.21805117
M35628	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2237499
M35628	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2219642
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M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2865969
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.23884743
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2887493
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2350679
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.32936694
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2258202
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3047039
M35628	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.36265591
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M35628	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.23964166
M35628	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.275118

M35628	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2400562
M35628	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerae	0.20269484
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M35630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0885055
M35630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08188758
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M35630	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09018781
M35630	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08742304
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2362296
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.130891
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1100991
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1332566
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1149907
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.082004
M35630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12930606
M35630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0961673
M35630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15193995
M35630	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.168694
M35631	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08115275
M35631	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10919529
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M35631	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09583624
M35631	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1170669
M35631	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1291866
M35631	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10010588
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M35632	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21245654
M35632	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.2082567
M35632	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.30005713
M35632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3431674
M35632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2571607
M35632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2299303
M35632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19563496
M35632	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2166844
M35632	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20895895
M35632	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19730363
M35632	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.34741397
M35632	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2335424
M35634	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2153496
M35634	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.19837
M35634	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2631454
M35634	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21618657
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M35634	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.16969427
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4272028
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.212843
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3238599
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2409318

M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2115489
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19159496
M35634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1655177
M35634	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2027266
M35634	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1717593
M35634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2448569
M35634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3176228
M35634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46126364
M35634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2459523
M35634	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1783846
M35634	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1865249
M35634	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2631093
M35635	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10489764
M35635	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0792545
M35635	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1263849
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M35635	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.0941068
M35635	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09798869
M35635	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09783401
M35635	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11938599
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3205429
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2417844
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1004173
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1497347
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13663203
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1698684
M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0906997
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M35635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.07863658
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M35635	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0906244
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M35635	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1760142
M35637	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2216172
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5457134
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5799381
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2691402
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2229613
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2221084
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2039358
M35637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2361185
M35637	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.5243874
M35637	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23317806
M35637	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2795201
M35637	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3014474
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M35639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2587248
M35639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2508627

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M35639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18677106
M35639	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2712089
M35639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1890493
M35639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2358067
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M35651	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1198006
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M35675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1468807
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M35718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1481185
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M35718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15376738
M35718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0932618
M35718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1517237

M35718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1033651
M35718	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.07643979
M35718	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09042207
M35718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0718939
M35718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.091664
M35718	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0761736
M35718	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2233287
M35879	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.10508911
M35879	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1306344
M35879	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0980452
M35879	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08960944
M35879	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.1106514
M35879	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0954718
M35879	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11054044
M35892	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1150734
M35892	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0898604
M35892	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1055107
M35892	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.095384
M35892	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09741394
M35892	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1038945
M35892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1008706
M35892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.138515
M36103	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0980705
M36103	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.07948332
M36103	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0792767
M36103	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0954891
M36103	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.083442
M36103	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0878535
M36103	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1363144
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1040457
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1141416
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0947135
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1418788
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1111339
M36103	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1588886
M36103	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0866603
M36103	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.0908771
M36103	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1065221
M36103	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0993959
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M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.227041
M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2436526
M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1231667
M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1087764
M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0854562
M36103	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1003036
M36103	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1573918
M36103	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.12869116
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M36103	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1119765

M36103	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1482328
M36103	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.081656
M36103	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1200855
M36103	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08119882
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M36103	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0903853
M36103	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.079287
M36103	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12799594
M36103	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0987964
M36103	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0880937
M36103	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1241143
M36103	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1292053
M36103	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1647336
M36103	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.07942307
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M36600	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.20395528
M36600	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24768033
M36600	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.32412457
M36600	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1801707
M36600	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3412533
M36600	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2133276
M36600	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.23144188
M36600	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.22224931
M36600	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.22224931
M36600	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.25632974
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M36600	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2014238
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M36649	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23056175
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M36649	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.17461703
M36649	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.16807668
M36649	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.18172767
M36649	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.19407409
M36649	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18184111
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M36659	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08017087
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M36659	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1584319

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M36659	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0850739
M36659	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08626616
M36659	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.08716
M36659	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09219483
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M36659	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1065985
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M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2687905
M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2812068
M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0835113
M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16254483
M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1066174
M36713	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1020456
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M36713	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09537284
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M36738	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1121907
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M36746	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1402579
M36746	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11738354
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M36747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1208691
M36747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.15084318
M36747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.18217405
M36747	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12501453
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M36747	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0832589
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M36749	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1362907
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.26383937
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.40145963
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.10735749
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.12619034
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1057304
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19827416
M36749	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.09409133
M36749	family	k__Bacteria.p__Fusobacteria.c__Fusobacteria.o__Fusobacteriales.f	-0.14144
M36749	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.09393037
M36749	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1031002
M36749	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0926019
M36749	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.103995
M36749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1053422
M36749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1011781
M36749	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.09713335
M36749	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.17611112

M36751	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0885593
M36751	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.100621
M36751	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13360466
M36751	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0977785
M36751	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1528253
M36751	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12741579
M36751	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1218451
M36751	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09289873
M36751	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1333133
M36751	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1503736
M36751	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0868425
M36751	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08484386
M36751	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1313747
M36751	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1336335
M36752	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.093941
M36752	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1215091
M36752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2018092
M36752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1523354
M36752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12505702
M36752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08875775
M36752	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1418026
M36752	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1417177
M36752	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1113042
M36752	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1242652
M36752	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13399534
M36752	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1257476
M36752	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.132221
M36752	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0984352
M36754	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0983471
M36754	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1079197
M36754	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0844291
M36754	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.07741186
M36754	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0821086
M36754	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.076662
M36754	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0814574
M36754	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0812625
M36754	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0918247
M36754	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.13784543
M36754	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1615321
M36754	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0961729
M36754	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0768899
M36754	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0815213
M36754	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0869047
M36754	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12068574
M36754	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0877539
M36754	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0765283
M36754	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1010769
M36770	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08955587
M36770	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08904362
M36770	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09399967

M36770	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.11194677
M36770	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.09981605
M36770	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.1002186
M36770	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10400542
M36770	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococ	-0.1158208
M36770	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.13170143
M36808	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0787608
M36808	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08268908
M36808	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1194499
M36808	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13357012
M36808	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.0793762
M36808	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08183436
M36808	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.08145492
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.2861655
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2513716
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.085242
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1508283
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11020226
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1291416
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0862951
M36808	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10027868
M36808	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0910288
M36808	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1498899
M36808	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1697302
M36850	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.188558
M36850	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1788718
M36850	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1862004
M36850	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1991511
M36850	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1851562
M36850	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.18016294
M36850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1707895
M36850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1818029
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M36850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2436136
M36850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17148707
M36850	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21308602
M36850	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18429206
M36850	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3612294
M36850	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1769662
M36850	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.17537976
M36850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2095438
M36850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.175933
M36850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1769662
M36850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1856587
M36850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1902855
M37058	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.22103
M37058	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2570003
M37058	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2272611
M37063	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0794224
M37063	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1500263

M37063	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09275907
M37063	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09384602
M37063	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0864692
M37063	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.16956708
M37063	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1216186
M37063	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1245969
M37063	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1348412
M37069	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07952496
M37069	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.0949518
M37069	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07558668
M37069	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07952496
M37069	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.091164
M37069	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.092439
M37069	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1070612
M37069	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11554185
M37069	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12049919
M37069	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.09004
M37069	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0782573
M37069	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0826207
M37069	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.100611
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.32581
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.160974
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2372995
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1201044
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0915087
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.132007
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.108254
M37069	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1077182
M37069	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1341
M37069	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0887568
M37069	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1156308
M37069	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0948442
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M37069	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0923619
M37069	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0968982
M37069	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1684576
M37069	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0911341
M37069	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1464676
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M37070	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.0893273
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M37070	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08878185
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2321848
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2055678
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1234223
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1470668
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08769166

M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1079127
M37070	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1384125
M37070	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08270825
M37070	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1049887
M37070	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18000291
M37076	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0809868
M37076	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.0800662
M37076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.084232
M37076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0756267
M37076	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0849127
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M37076	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0756267
M37076	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0756267
M37076	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1000451
M37076	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0843275
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M37076	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.10669
M37076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0811391
M37076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.098403
M37076	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0809868
M37076	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.0809868
M37076	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0756267
M37076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0756267
M37076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0756267
M37076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0784478
M37076	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0878678
M37076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0813557
M37076	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0766297
M37076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.0806182
M37076	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0756267
M37076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0809868
M37076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0831941
M37076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0809868
M37076	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0757702
M37076	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0809868
M37076	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0846848
M37076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.07986895
M37076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0756267
M37076	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0756267
M37091	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.20171462
M37091	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21188368
M37093	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0847725
M37093	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1169514
M37093	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0963446
M37093	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1068621
M37093	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0889466

M37093	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0959242
M37139	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2717836
M37139	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2733501
M37139	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2182142
M37139	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.396853
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2917249
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2694646
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3660954
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2283278
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2136997
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.458117
M37139	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2433187
M37139	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.30341542
M37139	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.3178073
M37139	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2141284
M37139	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2430961
M37139	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4917339
M37139	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2652025
M37139	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3458345
M37139	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2603489
M37139	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.3600333
M37139	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.2273146
M37139	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2316502
M37139	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.223346
M37139	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3570012
M37139	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2671172
M37139	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.28766295
M37139	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2543272
M37139	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3723714
M37139	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.60436887
M37139	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3170448
M37139	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2302362
M37139	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2159882
M37139	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2823317
M37188	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1684725
M37188	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2308683
M37188	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1650247
M37188	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1806488
M37188	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2072383
M37188	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2232946
M37188	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2738091
M37188	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2641631
M37188	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2360487
M37188	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2058683
M37188	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2117543
M37188	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.28284
M37191	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2537517
M37191	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2162154
M37191	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162154
M37191	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2162154

M37191	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.208519
M37191	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1986073
M37191	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2743298
M37191	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2162154
M37191	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.26978918
M37191	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1863609
M37191	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.21728946
M37191	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2063675
M37191	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2602897
M37191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.3023896
M37191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.19630195
M37191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2162154
M37191	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1912625
M37191	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2162154
M37191	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1941903
M37191	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1955516
M37191	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.2029352
M37191	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.22408
M37191	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1884618
M37191	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2162154
M37191	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1970139
M37191	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	-0.2162154
M37191	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2988489
M37191	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2592858
M37191	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2162154
M37191	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2281152
M37191	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2279753
M37191	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.21509519
M37196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7477378
M37196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2735518
M37196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7062344
M37196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3986225
M37196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2577963
M37196	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.27546703
M37196	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2397516
M37196	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2895303
M37196	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.33215776
M37196	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2781055
M37196	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.4275143
M37202	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.30543452
M37202	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19956834
M37202	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3377432
M37202	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.2008047
M37202	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.25650554
M37202	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23544845
M37202	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.2054479
M37202	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.1894776
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.9519067
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8844275
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1946804

M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2551766
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2856206
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-1.0975744
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2211954
M37202	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2144601
M37202	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3970037
M37202	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2350733
M37202	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3016694
M37202	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.26297489
M37202	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2015814
M37202	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.256555
M37202	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.43686
M37203	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32326849
M37203	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.22486754
M37203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2317976
M37203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.4139619
M37203	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__i	0.18859693
M37203	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.18958822
M37203	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.20573136
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.9131691
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.9030917
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1962721
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2153784
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21092255
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1968251
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-1.0689628
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2147694
M37203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20236044
M37203	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.19329283
M37203	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3604276
M37203	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2603176
M37203	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23473452
M37203	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2014975
M37203	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.221408
M37203	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.4164068
M37207	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17901923
M37207	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.1835656
M37207	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1868965
M37207	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2289359
M37207	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1782899
M37207	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3391421
M37207	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2283769
M37207	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1850523
M37207	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.20057047
M37207	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.198227
M37207	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2418859
M37207	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.1916163
M37210	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.24857481
M37211	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3043044
M37211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29015288

M37211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2765692
M37211	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2292602
M37211	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3319949
M37211	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.5822714
M37211	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.283064
M37211	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__I	0.2242683
M37211	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.25744783
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-1.1056343
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2242111
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.9825113
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2479695
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3640496
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.37400633
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2933535
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-1.0611664
M37211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.3937755
M37211	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3976235
M37211	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3028767
M37211	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2688397
M37211	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2600958
M37211	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.5122529
M37431	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1207355
M37431	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10169902
M37431	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08646342
M37431	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__(	0.08501803
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1886903
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2543526
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0870418
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.098041
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10971407
M37431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0901145
M37431	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1277814
M37431	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10015789
M37431	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0908185
M37431	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1146244
M37431	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1162146
M37431	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0881906
M37432	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3442101
M37432	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2575943
M37432	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17290402
M37432	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23688771
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4732748
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3266038
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1990816
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.18478713
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2332445
M37432	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21213053
M37432	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.24919379
M37432	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27796069
M37432	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.268651

M37443	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1235175
M37443	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0876064
M37443	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.0790121
M37443	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.090713
M37443	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876064
M37443	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0876064
M37443	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0971721
M37443	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0910598
M37443	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0876064
M37443	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.09240577
M37443	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08815823
M37443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1155684
M37443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08514627
M37443	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0876064
M37443	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemat	-0.0876064
M37443	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.123121
M37443	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0883424
M37443	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.0807814
M37443	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0908594
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0876064
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0794544
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08198797
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0876064
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10993292
M37443	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0820887
M37443	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0876064
M37443	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0864289
M37443	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0802485
M37443	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.07801769
M37455	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09830816
M37455	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1353301
M37455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0887535
M37455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10613781
M37455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09653466
M37455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1976652
M37455	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.0899701
M37455	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08899999
M37455	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10020744
M37455	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.15221526
M37455	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.13726977
M37455	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08909725
M37455	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.11228597
M37456	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1869437
M37456	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1797115
M37456	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2108181
M37456	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1895696
M37456	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1877307
M37456	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1853436
M37456	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2891612
M37456	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22578853

M37456	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2200488
M37456	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2171974
M37456	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.20842837
M37458	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08697615
M37458	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.08137203
M37458	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08098485
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2703302
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2719277
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1169847
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11616189
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0899611
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1033497
M37458	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1042687
M37458	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11843659
M37458	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0893974
M37458	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0945963
M37458	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14485851
M37458	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1032279
M37458	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1292153
M37465	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2163524
M37465	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1835573
M37465	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2057047
M37465	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2265428
M37465	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.19529734
M37465	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2093136
M37465	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2188563
M37465	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.19629927
M37465	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.26464791
M37465	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2030393
M37465	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.5690697
M37465	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3174352
M37465	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3016678
M37465	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2729593
M37465	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2065596
M37465	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2448748
M37465	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2280369
M37465	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2934299
M37465	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33135505
M37465	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2465416
M37465	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.25518297
M37465	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2148417
M37465	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1925982
M37496	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0842178
M37496	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.088024
M37496	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1086016
M37496	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1590617
M37496	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.1388345
M37496	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09893254
M37496	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.0783457
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3078764

M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2666069
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.102071
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1199251
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1561632
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1673462
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.164231
M37496	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09762349
M37496	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.16131217
M37496	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09215722
M37496	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07926269
M37496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2099241
M37496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1050631
M37496	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1912375
M37501	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.078872
M37501	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09521496
M37501	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.0834747
M37501	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0894608
M37501	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0790643
M37501	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1051267
M37501	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.095376
M37501	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10998916
M37501	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0783549
M37501	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0751
M37501	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0833225
M37501	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0932858
M37501	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0864718
M37501	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08227967
M37502	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0809841
M37502	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0832058
M37502	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0793826
M37502	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0941315
M37502	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.0815265
M37502	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1027847
M37502	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0895063
M37502	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1032915
M37502	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0832792
M37502	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0911141
M37502	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1015689
M37502	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.096854
M37502	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0909
M37502	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1013368
M37502	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0884643
M37502	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1076647
M37502	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0830571
M37502	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08905931
M37506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10217677
M37506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09677963
M37506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.096375
M37506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1073463
M37506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1160955

M37506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1025533
M37506	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10145623
M37506	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10575501
M37506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16861889
M37506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08602333
M37506	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11403151
M37506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09537735
M37508	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.20521327
M37508	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20521327
M37508	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1870841
M37508	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2606954
M37508	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.20896196
M37508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2213588
M37508	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2183958
M37508	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.21911622
M37508	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.38764174
M37508	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.20521327
M37508	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2577296
M37508	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1844643
M37508	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1913849
M37508	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.272047
M37508	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.18495139
M37508	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.21723189
M37752	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1054068
M37752	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1203652
M37752	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09736663
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2222989
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1593359
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0884651
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0843168
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0883086
M37752	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0809452
M37752	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07914463
M37752	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0964362
M37752	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11924786
M37752	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0892773
M37752	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1549755
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M38102	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0811572
M38102	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.12043
M38102	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1769569
M38102	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10286694
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2824969
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2193897
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1231801
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17378807
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0928959
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0960892
M38102	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18149038
M38102	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1589642

M38102	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1789982
M38102	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.12507627
M38102	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1713415
M38105	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2385679
M38105	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1975219
M38109	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1368187
M38109	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0842137
M38109	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08394875
M38109	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0883866
M38109	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08362338
M38109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0979458
M38109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1180736
M38109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11717841
M38109	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0917805
M38109	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09147932
M38109	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10787704
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M38116	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.0967175
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M38116	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0869661
M38116	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.10125211
M38116	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1640849
M38116	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0995599
M38116	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1099729
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M38116	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08986895
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M38116	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.101138
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M38116	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.145491
M38116	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1362006
M38116	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0982014
M38116	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1435818
M38116	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0989328
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M38125	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.08405
M38125	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1043691
M38125	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.08126675
M38125	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.08773567
M38125	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.07906053
M38125	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1133776
M38125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.082372
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M38125	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0822308

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M38125	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0760992
M38125	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.07743187
M38125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08515005
M38125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0987234
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M38125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0912155
M38125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0961888
M38125	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1009159
M38127	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.1688248
M38127	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2185403
M38127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.199479
M38127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1658058
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M38127	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.1654241
M38127	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.19053998
M38127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2108099
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M38127	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.17363596
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M38165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2405813
M38165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1728463
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M38165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17507035
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M38165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18955069
M38165	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.16121959
M38165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.07972715
M38165	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09270941
M38165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19829605
M38165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14668994
M38165	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1395058
M38167	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2238888
M38167	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.231471
M38167	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.1975737
M38167	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5785909
M38167	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5113232
M38167	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2229487
M38167	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2732955
M38167	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.4837753

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M38167	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3399792
M38167	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2094287
M38167	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2337028
M38167	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3094532
M38167	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2035776
M38167	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2587595
M38167	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2731322
M38167	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2385264
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M38271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1443054
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M38271	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1087384
M38271	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	-0.1073286
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M38271	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1123607
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M38271	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1076707
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M38271	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1040368
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M38271	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1413516
M38273	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1806999
M38273	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1800815
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M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3151877
M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2326142
M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1200381
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M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11472377
M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0979243
M38273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1192186
M38273	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.16050779
M38273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.09109975
M38273	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.098032
M38273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1780283
M38273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.13934348
M38273	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1770391
M38276	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09646252
M38276	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.086347
M38276	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.09023548

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M38276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13952595
M38276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08223849
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M38276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08489052
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M38276	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.086347
M38276	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1041024
M38276	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.11655562
M38276	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.086347
M38276	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	-0.086347
M38276	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.086347
M38276	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.13268367
M38276	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.086347
M38276	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0893651
M38276	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.08634698
M38276	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.10872197
M38276	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.0838426
M38276	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococi	-0.1089034
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M38276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0934508
M38276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.099754
M38276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0915412
M38276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.086347
M38276	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.11106151
M38276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1246417
M38276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.086347
M38276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.13190359
M38276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.086347
M38276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0903771
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M38276	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0868004
M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08634698
M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.086347
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M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0955593
M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0894423
M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.0864699
M38276	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09646252
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0867868
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1193416
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.1234646
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0894423
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0855126
M38276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15316752
M38276	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.109155
M38276	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.08925639
M38276	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.086347
M38276	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09063055

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M38288	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2093317
M38288	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2623152
M38288	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2911214
M38288	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2076654
M38288	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22667527
M38288	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1881158
M38288	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2524889
M38288	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2174907
M38288	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22239642
M38288	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2798969
M38288	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2617993
M38288	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.23760814
M38288	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1957187
M38293	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09871065
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M38293	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08091466
M38293	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.14044169
M38293	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0948252
M38293	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0939408
M38293	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.1596805
M38293	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.09686132
M38293	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08599059
M38293	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09092459
M38293	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1633739
M38293	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.11929747
M38296	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1073212
M38296	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.106568
M38296	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0960111
M38296	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1199525
M38296	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10194289
M38296	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.13812784
M38296	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0842526
M38296	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1215885
M38313	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.28570648
M38313	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2280007
M38313	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.1986651
M38313	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1823068
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M38313	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3185634
M38313	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.3317981
M38313	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2286778
M38313	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1986651
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M38313	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3953177
M38313	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2514823
M38313	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1706458
M38313	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1980212
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M38313	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3543465
M38313	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.3025552
M38313	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1986651
M38313	family	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Par	-0.1986651
M38313	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.22817277
M38313	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.1986651
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M38313	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.19955062
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M38313	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2096899
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M38313	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.3345536
M38313	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.1986651
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M38313	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1935188
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M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1820405
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M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2888612
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1709661
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2620805
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2290162
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2202685
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2262937
M38313	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2101898
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M38313	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.190352
M38313	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.23171474
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M38313	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2278868
M38395	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1437293
M38395	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1119046
M38395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.0867226
M38395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0787317
M38395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1723602
M38395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1892337
M38395	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.08343193
M38395	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1013215
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3428854
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2811621
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1621214
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1141393
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.147235
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11919047
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1346055
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0984602
M38395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08099174
M38395	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1430019
M38395	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0851935
M38395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1261856
M38395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0909305
M38395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07933083

M38395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.0837271
M38395	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1326033
M38395	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1003601
M38395	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2133051
M38399	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobac	-0.1910422
M38399	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1239931
M38399	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1004295
M38399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.193477
M38399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1061688
M38399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1673027
M38399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.0843575
M38399	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0975092
M38399	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1152724
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4045456
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1573535
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3414438
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1880987
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2210116
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0883413
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08089368
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1389081
M38399	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1485882
M38399	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1217123
M38399	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0960548
M38399	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1021088
M38399	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.12329401
M38399	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.095392
M38399	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.093409
M38399	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1955008
M38399	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.09613979
M38399	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1226375
M38399	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1812375
M38625	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09338304
M38625	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.090645
M38625	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1313911
M38625	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07753263
M38625	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08818156
M38625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.203709
M38625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1648185
M38625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17445077
M38625	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12251764
M38625	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.14143369
M38625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12201753
M38625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11640593
M38625	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1480065
M38652	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.18527018
M38652	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.2035712
M38652	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.18897281
M38652	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1848187
M38652	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1998654

M38652	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.2069137
M38654	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.21555379
M38654	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29719539
M38654	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21555379
M38654	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21555379
M38654	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.24760787
M38654	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2410584
M38654	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2132731
M38654	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	0.21555379
M38654	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.27532618
M38654	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	0.21555379
M38654	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	0.21555379
M38654	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25235036
M38654	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.21872388
M38654	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.21555379
M38654	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.24406494
M38654	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.21555379
M38654	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.21555379
M38654	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.31344397
M38654	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	0.23881329
M38665	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12979043
M38665	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10335052
M38665	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0889804
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M38665	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11484025
M38665	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08780726
M38665	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0971254
M38665	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1346368
M38665	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0956601
M38665	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.10076052
M38667	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.23127124
M38667	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.22426989
M38667	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5421564
M38667	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4268726
M38667	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2097474
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M38667	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32940729
M38667	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22211231
M38667	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29326733
M38667	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	0.24265055
M38667	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.23861189
M38672	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09453801
M38672	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13066891
M38672	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1171751
M38672	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09767223
M38672	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08843849
M38672	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0975251
M38672	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1044964
M38696	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0832153
M38696	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.09799247

M38696	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09486428
M38696	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14504532
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M38696	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0888358
M38696	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1139412
M38696	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08873049
M38696	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09067846
M38749	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1458966
M38749	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1301383
M38749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09688448
M38749	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09395349
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M38749	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1371541
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M38749	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08679414
M38749	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09670289
M38749	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1149763
M38749	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.08596989
M38768	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08240145
M38768	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1140209
M38768	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1038955
M38768	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1122645
M38768	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0946121
M38768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.20736608
M38768	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.0947807
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M38768	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08653077
M38768	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08094518
M38768	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12825824
M38768	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.185665
M38768	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.09653733
M38768	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.12990643
M39270	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2680113
M39270	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.24385404
M39270	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2114849
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M39270	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27758693

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M39270	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.32136593
M39270	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.2857007
M39270	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2635272
M39270	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2168723
M39270	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2373003
M39270	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.258875
M39270	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2680113
M39270	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2680113
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M39270	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.25231863
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M39270	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.263966
M39270	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.332202
M39270	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2508151
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M39270	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2114849
M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.326523
M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2535082
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M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2680113
M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2680113
M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2106719
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M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.28177
M39270	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3544691
M39270	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2680113
M39270	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.24419979
M39270	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.4139583
M39270	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3101797
M39270	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.3117918
M39270	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.24128725
M39270	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2114849
M39270	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2114849
M39270	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2286644
M39271	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08559783
M39271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1236771
M39271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.15826775
M39271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09539507
M39271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13125705
M39271	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.14102801
M39271	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1166528
M39271	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.10170339
M39271	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.1095453
M39271	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.1217732

M39271	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1152335
M39271	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1058479
M39271	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1388707
M39271	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1210414
M39271	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08414038
M39271	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.14131569
M39271	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0944617
M39271	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10507016
M39271	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.10546129
M39271	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.087055
M39379	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.21102864
M39379	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.4170642
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2605708
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.31831403
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2830442
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.25806867
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2042007
M39379	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21471283
M39379	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17795244
M39379	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2059723
M39379	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18125425
M39379	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2015517
M39379	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46182692
M39583	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1136125
M39583	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1045992
M39583	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11013555
M39583	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.0917125
M39583	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08704842
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2427774
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2459265
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0882269
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1041699
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13407703
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0793559
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.106472
M39583	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08698289
M39583	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11417039
M39583	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1175699
M39583	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1610956
M39587	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10255129
M39587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1055962
M39587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0855052
M39587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0988241
M39587	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0953833
M39587	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.0975902
M39587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08302104
M39587	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09923309
M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.203937
M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2040418
M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0989668

M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10650444
M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1982852
M39587	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1054973
M39587	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.0844766
M39587	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0854768
M39587	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1076827
M39587	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08097787
M39587	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1243961
M39592	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2512859
M39592	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2917199
M39592	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.1881845
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5226028
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5114153
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2099115
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1786222
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20515595
M39592	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2259395
M39592	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.18757353
M39592	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3053702
M39592	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2168912
M39592	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3046211
M39592	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1860364
M39592	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.29205
M39592	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.234193
M39598	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1891997
M39598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3807421
M39598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2124353
M39598	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28345061
M39598	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2179008
M39598	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2307561
M39598	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18260351
M39598	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20734534
M39598	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2356433
M39626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1179728
M39626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0978169
M39626	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.1079105
M39626	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0910699
M39626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1351499
M39626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08421347
M39626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1121122
M39626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0771987
M39630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1964586
M39630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3436293
M39630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2925359
M39630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1749118
M39630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3084686
M39630	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1668753
M39630	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1688248
M39630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3745105
M39630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2792012

M39630	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2560714
M39630	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1811612
M39630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1805064
M39630	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2152333
M39630	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2192437
M39777	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2046495
M39777	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.20840588
M39777	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2867364
M39777	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.17916774
M39777	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.19229354
M39777	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2509753
M39777	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.17861673
M39777	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1854797
M39777	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.28022779
M39788	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0809773
M39788	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.083339
M39788	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0869706
M39788	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09101658
M39788	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0864709
M39788	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0842904
M39788	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10238272
M39788	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0998321
M39788	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.084373
M39788	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0962103
M39788	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0782414
M39994	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1179742
M39994	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1276466
M39994	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0952615
M39994	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0960672
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M40006	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25459735
M40006	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22972366
M40006	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19716196
M40006	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1930764
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M40007	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1114384
M40007	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1309067
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M40007	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0846799
M40007	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0872294
M40007	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.08987879
M40007	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0911023
M40007	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09121
M40008	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1687974
M40008	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1465
M40008	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1221841
M40008	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08207249
M40008	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.120952

M40008	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08410283
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M40008	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1427506
M40010	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1006995
M40010	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0864202
M40010	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0902598
M40020	family	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales.f__	0.19433402
M40020	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1922972
M40020	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.2062584
M40020	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.19291257
M40040	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32941168
M40040	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21388219
M40040	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.23462722
M40040	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1660323
M40040	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1846469
M40040	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1709239
M40040	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.20497837
M40040	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24491351
M40040	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21978787
M40040	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24010097
M40040	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17215033
M40040	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.17118161
M40040	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.24892937
M40040	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.31024777
M40040	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.236776
M40040	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.22543084
M40040	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.27954114
M40040	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17314738
M40040	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.170023
M40040	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.18838595
M40040	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24298712
M40040	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.22005405
M40040	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.21904305
M40045	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1152867
M40045	family	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales.f__	0.08740878
M40045	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08458208
M40045	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1439182
M40045	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.137082
M40045	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.130846
M40045	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.0811524
M40045	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0791448
M40045	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1082158
M40084	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09672623
M40084	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07779686
M40084	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.07541553
M40084	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09982238
M40084	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08156829
M40084	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.128073
M40084	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17465953
M40084	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.13208537

M40084	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11570477
M40084	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.07635345
M40084	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07715496
M40084	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.09381107
M40084	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0796786
M40097	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0938542
M40097	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.10500838
M40097	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1846198
M40097	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0949171
M40097	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1160903
M40097	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.105973
M40097	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10834192
M40097	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13397268
M40097	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08646565
M40097	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1011124
M40173	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10082565
M40173	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0921552
M40173	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0878434
M40173	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.08286818
M40173	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.113189
M40173	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0930144
M40173	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1005136
M40173	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0857023
M40173	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1015275
M40173	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0931014
M40173	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1082885
M40173	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09026324
M40173	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0788146
M40173	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.085633
M40406	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1015626
M40406	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0910258
M40406	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1377959
M40406	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0770385
M40406	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1343953
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1056077
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0941634
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0882329
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.12795791
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.08143732
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10899524
M40406	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08367933
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0802034
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2937431
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2505636
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1320686
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1815309
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11457331
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1159191
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0963656
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0797616

M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.083681
M40406	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08189616
M40406	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11815798
M40406	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0839622
M40406	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0885263
M40406	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0806054
M40406	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1104813
M40406	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0883766
M40406	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15105828
M40406	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08819761
M40406	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0832724
M40406	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1331069
M40406	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0920336
M40406	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1180085
M40410	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09725174
M40410	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10147748
M40410	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1065553
M40410	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0960532
M40410	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1067615
M40410	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0795792
M40410	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1219378
M40410	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0946162
M40410	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1192692
M40410	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.082232
M40410	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.0816254
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2514167
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2404176
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M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1200529
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1017083
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.110778
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0947034
M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1086152
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M40410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.1232083
M40410	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1669737
M40410	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0811943
M40410	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.12354757
M40410	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0955352
M40410	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1122159
M40410	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09245737
M40410	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0820213
M40410	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12552406
M40410	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1159151
M40410	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1037846
M40410	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1878071
M40410	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1524498
M40452	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0831465
M40452	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09121617
M40452	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.08807426

M40452	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09391087
M40452	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0913145
M40452	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0967647
M40452	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09735922
M40452	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.13003394
M40452	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.142982
M40452	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0854705
M40452	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07637923
M40452	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07874626
M40452	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08397667
M40452	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1417116
M40452	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.08662855
M40464	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2427544
M40464	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23589052
M40464	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2222959
M40464	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.20902599
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.43561814
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.27382821
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.47943137
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.21713676
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.24742321
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1764305
M40464	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.38787107
M40464	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2696674
M40464	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.26488562
M40464	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.17552878
M40464	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1825799
M40464	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.25010877
M40464	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.17705942
M40473	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.22637037
M40473	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2520033
M40473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.32845
M40473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.3337888
M40473	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2717841
M40473	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2928199
M40473	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.24704909
M40473	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.4532263
M40473	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2515132
M40473	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3251476
M40473	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.5392432
M40473	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2462487
M40473	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.3161751
M40473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.25278918
M40473	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2450801
M40473	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.40489445
M40473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.2895711
M40473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2814968
M40473	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2967438
M40473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.34712568
M40473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.23184882

M40473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24115766
M40473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.4076647
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.235366
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2294425
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.4076647
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2585998
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.3784596
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3032962
M40473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.23609845
M40473	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3783625
M40473	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.30914134
M40473	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.24849444
M40473	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.3092712
M40473	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.2806969
M40475	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.162917
M40475	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07995603
M40475	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0911709
M40475	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0803436
M40475	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09391579
M40479	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0790041
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2453589
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0932263
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2029656
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1102228
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1289299
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08214799
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1174752
M40479	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1067389
M40479	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1400681
M40479	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08027814
M40479	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1326316
M40479	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10234877
M40479	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1745492
M40479	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0797479
M40481	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0818855
M40481	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09880787
M40481	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1012203
M40481	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08736004
M40481	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11469979
M40481	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2267449
M40481	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1287829
M40481	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0864317
M40481	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0881448
M40481	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12796875
M40481	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08286385
M40481	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15074071
M40481	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07628183
M40481	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08217232
M40481	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1026096
M40499	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.22202038

M40499	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.19225843
M40499	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	0.22010607
M40499	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.16956625
M40499	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.19555424
M40499	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.19825702
M40499	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.20078529
M40499	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21846228
M40499	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19221158
M40499	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17422945
M40499	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16570837
M40506	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2800677
M40506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3353925
M40506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2588073
M40506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2121473
M40506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1844098
M40506	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.21439514
M40506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2755421
M40506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.2126582
M40506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.283513
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.5157642
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4470562
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1856382
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2672312
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3233351
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2033033
M40506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2905736
M40506	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1801678
M40506	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3291365
M40506	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1640338
M40506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1752516
M40506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.19570289
M40506	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2211046
M40506	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2555015
M40506	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.17055913
M40506	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18404709
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2280074
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1752516
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2780337
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1766856
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1837858
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2197192
M40506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19263536
M40506	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2384794
M40506	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2732013
M40506	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1991998
M40700	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08823178
M40700	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0828612
M40700	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.10562676
M40700	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0994623
M40703	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24076286

M40703	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22664181
M40703	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25910633
M40703	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.26398601
M40703	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.23806352
M40703	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.29922185
M40703	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.22699417
M40703	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.30927466
M40703	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3031949
M40703	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19887417
M40703	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2327406
M40703	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.25247345
M40703	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2195661
M40703	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24533947
M40703	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23886196
M40703	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.22424224
M40703	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22339318
M40703	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.19953104
M40730	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08955872
M40730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0923881
M40730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0955882
M40730	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.087499
M40730	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.10690216
M40730	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08669474
M40730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2054051
M40730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1656042
M40730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09669807
M40730	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.07878262
M40730	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0860626
M40730	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10331697
M40730	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.100092
M40730	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0807255
M40732	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.18331564
M40732	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2164012
M40732	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17541952
M40732	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3224464
M40732	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26549547
M40732	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.4119187
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M40732	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3347933
M40732	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.3974951
M40732	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18162566
M40732	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.2368092
M40732	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.188307
M40732	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.3065216
M40732	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.3413016
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M40732	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.26471305
M40732	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.2023721
M40732	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.379265
M40732	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25016224

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M40732	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2490301
M40732	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1753391
M40732	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1991182
M40732	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1875096
M40732	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.34105
M40732	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.27308746
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M40732	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.4506513
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M40732	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1881777
M40732	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22278838
M40732	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2271832
M40732	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.33039299
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M40732	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.3579976
M40732	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2658417
M40732	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.23820793
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M41370	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.0959163
M41370	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0871883
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M41374	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.102828
M41515	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1079014
M41515	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1010899
M41515	family	k__Bacteria.p__Bacteroidetes.c__Saprosphaerae.o__Saprosphaerales.f__S	0.08522389
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1487684
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1650698
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1227329
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0896922
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1418712
M41515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1019013
M41515	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.08516425
M41515	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.15211
M41515	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0883575
M41515	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1088973
M41515	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0875281
M41515	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1056952
M41515	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0808483
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M41515	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1404979
M41515	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1283944
M41609	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.19415824

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M41609	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3957463
M41609	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2747063
M41609	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.2022784
M41609	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23138742
M41609	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.19838476
M41888	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09227165
M41888	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10228669
M41888	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08187911
M41888	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10674177
M41888	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08909912
M41888	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08846674
M41888	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09525326
M41888	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.10617917
M41888	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0968672
M41888	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.108933
M41888	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0846436
M41888	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.095581
M41888	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.082397
M41888	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0851183
M42027	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.19376022
M42027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2037287
M42027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26592236
M42027	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.26701063
M42027	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.18952379
M42027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.29659296
M42027	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.29752369
M42027	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.26797562
M42027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.25626077
M42027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.27172247
M42027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.26117685
M42027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.2232603
M42027	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.21248077
M42027	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.19624091
M42027	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21739544
M42027	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.27665329
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.24309646
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.19405767
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.28232437
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22696788
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.27665329
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.25565058
M42027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.20243465
M42027	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.19043189
M42079	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1073945
M42079	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08153578
M42079	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09664366
M42081	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2683391
M42081	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2830209

M42081	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.2060634
M42081	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2060634
M42081	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2060634
M42081	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2197289
M42081	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.5141578
M42081	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2310081
M42081	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19354431
M42081	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3026693
M42081	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21897774
M42081	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2554526
M42081	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2060634
M42081	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.33438304
M42081	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.27506175
M42081	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2866223
M42081	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.20128105
M42081	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.2118303
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2168284
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2169793
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.6583432
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.29942
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3938656
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2388781
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2312171
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2326441
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.1908067
M42081	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.2060634
M42081	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.2060634
M42081	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3391617
M42081	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.2641431
M42081	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.2286742
M42081	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.194933
M42081	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder	-0.470547
M42081	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1959801
M42081	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosomon	0.18712163
M42081	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2595951
M42081	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2154823
M42081	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2151622
M42081	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococ	-0.212219
M42081	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococ	0.21066442
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromon	-0.3536486
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromon	-0.2173175
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromon	-0.1959801
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromon	-0.2060634
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob	-0.2911286
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanosp	-0.2060634
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanosp	-0.2285601
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrion	-0.3009726
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrion	-0.3371126
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomon	0.27083892
M42081	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomon	-0.2161789

M42081	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2060634
M42081	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2759703
M42081	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2962876
M42081	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2924418
M42081	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.2165873
M42092	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.20394202
M42092	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1748277
M42092	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.18137513
M42092	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20094474
M42092	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2160641
M42092	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.21595949
M42092	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.19030588
M42092	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20113429
M42092	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1789695
M42092	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.25365097
M42092	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19493601
M42092	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17255259
M42094	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.19014452
M42094	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.24129193
M42094	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.19503965
M42094	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25283955
M42109	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0888063
M42109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1070596
M42109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0867898
M42109	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0969016
M42109	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09012297
M42109	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08886357
M42109	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11582287
M42109	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0788658
M42370	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0996646
M42374	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1183655
M42374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1130571
M42374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10037849
M42374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0883539
M42374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0885071
M42374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15065616
M42374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.11222555
M42374	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0808184
M42374	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0930856
M42374	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0855284
M42395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1554388
M42395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0828551
M42395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.09064
M42395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0813866
M42395	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1013288
M42395	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1227245
M42395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0748845
M42395	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0891693
M42395	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1097815
M42395	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1146337

M42395	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0976991
M42395	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0908158
M42395	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1047262
M42395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0843244
M42395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.11036559
M42395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.14267122
M42395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10351579
M42395	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1077434
M42395	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0799821
M42395	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1260179
M42395	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.1073184
M42395	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campy	-0.1718588
M42395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0804003
M42395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0777974
M42395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0855307
M42395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0763896
M42395	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0824664
M42398	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.10784358
M42398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0951112
M42398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09024039
M42398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.13506402
M42398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0941821
M42398	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1059807
M42398	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11397502
M42398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.12023582
M42398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.09972765
M42398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0942155
M42398	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1019907
M42398	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.12398677
M42398	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12632457
M42398	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08981821
M42398	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.16677361
M42398	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.0933771
M42420	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0936315
M42420	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1002222
M42420	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11778921
M42420	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1070705
M42420	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0860689
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3477631
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0895977
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2245165
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1372067
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1920744
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0878677
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13203709
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.104633
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1130811
M42420	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14476466
M42420	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07592108
M42420	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1207581

M42420	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0928067
M42420	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1024834
M42420	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1146804
M42420	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0948703
M42420	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1628668
M42420	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.103462
M42420	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18097957
M42420	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1487851
M42420	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.1142999
M42420	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1047706
M42420	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	-0.0975302
M42420	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.126676
M42446	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1110291
M42446	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10061518
M42449	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2283853
M42449	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2543123
M42449	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20405872
M42449	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2066923
M42449	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.28407906
M42449	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.32183858
M42449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.26930433
M42449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.26893164
M42449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.2504923
M42449	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.36351186
M42449	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.22225663
M42449	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2043568
M42449	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.2070133
M42449	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2876741
M42449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2212586
M42449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2163326
M42449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3327752
M42449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.31001508
M42449	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2592703
M42449	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2963051
M42489	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1160399
M42489	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0874477
M42489	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1020013
M42489	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0843995
M42489	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0890508
M42489	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0837182
M42489	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08463537
M42489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2036027
M42489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1718605
M42489	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13590618
M42489	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1118573
M42489	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.11357774
M42489	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0881689
M42489	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0835572
M42489	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1024985
M42489	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1001808

M42489	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.1004362
M42489	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.088722
M42489	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1030611
M42489	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1416256
M42489	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0893974
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M42971	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11702522
M42971	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1147995
M42971	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10021071
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1935318
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1115939
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1631867
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08879621
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0966476
M42971	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08720807
M42971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.121653
M42971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1056845
M42971	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16852168
M42971	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0900584
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M42971	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.0910065
M42971	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0938151
M42971	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1243731
M42971	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09245048
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0886386
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0910065
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0934004
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1352703
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10192482
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1226523
M42971	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1143164
M42971	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.089288
M42971	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.10093695
M42975	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.190816
M42975	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2448157
M42975	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1771287
M42975	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.43034373
M42975	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1950234
M42975	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2112638
M42975	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32308912
M42978	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10797857
M42978	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09964177
M42978	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.10447144
M42978	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1145714
M42978	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.21026755
M42978	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.15456394
M42978	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.09268433
M42978	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0950652
M42978	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.0994122

M42978	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08493313
M42978	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.096949
M42978	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.111448
M42978	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.16890962
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M42989	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17280737
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M42989	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.20387809
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M42989	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.28457371
M42989	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	-0.2563716
M42989	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2154775
M42989	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2811071
M42989	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.177854
M42989	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2238765
M42989	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22728185
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M42989	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.20275279
M42989	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.1808378
M42989	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.19647487
M42989	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.21377693
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M42989	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.194452
M42989	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24185041
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M42989	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.18546347
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M42989	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.28809495
M42989	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2587811
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M42989	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.24039553
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M42989	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	0.27097654
M42989	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.20718703
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M42993	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2550292
M42993	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1979526
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M42993	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4350718
M42993	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3450799
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M42993	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2400719
M42993	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21303091
M42993	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.19032
M42993	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3013239

M42993	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18646461
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M42993	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1974072
M42993	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2746082
M42994	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21494142
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M42994	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.22873703
M42994	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.21654492
M42994	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2495593
M42994	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.29436747
M42999	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4259443
M42999	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20530508
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M42999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3881487
M42999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.4035997
M42999	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23034601
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M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0984725
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M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1355025
M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0832524
M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1195008
M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1308626
M43023	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0891432
M43023	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1057698
M43023	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0916211
M43023	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0842674
M43023	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1127884
M43023	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1026849
M43023	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1367353
M43023	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.138696
M43023	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.15017995
M43026	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0908616
M43026	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0938871
M43026	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1499143
M43026	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09350194
M43026	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10737176
M43026	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0787444
M43026	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08658717
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0836839
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.174423
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1159272
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1095652
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0835133
M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1112149

M43026	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1180228
M43026	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0797642
M43026	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0952706
M43026	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08391996
M43026	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0901129
M43027	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0808987
M43027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1006979
M43027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0934133
M43027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0833044
M43027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0894981
M43027	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0806386
M43027	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.123607
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11010233
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0886679
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0911359
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1885499
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0919917
M43027	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0767168
M43027	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1063559
M43027	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	-0.0815574
M43027	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__f	0.09853074
M43027	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0853303
M43027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1158851
M43027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1030103
M43027	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0923543
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0853605
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.115314
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1119839
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0931534
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1032348
M43027	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.176488
M43027	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0995358
M43027	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.10046616
M43027	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09381914
M43027	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.086436
M43027	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0974804
M43027	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0942547
M43027	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1502484
M43027	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0780641
M43027	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0945523
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.115894
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0807618
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0901127
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1292581
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0945523
M43027	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0938371
M43027	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1070917
M43027	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0811263
M43027	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0798895
M43028	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0881402

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M43028	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09288387
M43028	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09810527
M43028	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08886148
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M43028	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.09000886
M43028	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1166547
M43231	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1162094
M43231	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11664861
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M43231	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.11578105
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M43231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.08882
M43231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1000256
M43231	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1025249
M43231	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.079598
M43231	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0870295
M43231	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.095471
M43231	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.085317
M43231	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0941649
M43231	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1107536
M43231	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850893
M43231	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocear	-0.1053313
M43231	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1090075
M43231	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08942651
M43231	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0958777
M43231	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1056769
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M43249	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08178826
M43249	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0870282
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M43249	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1216079
M43249	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1125652
M43249	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0901597
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M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2821541
M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2249742
M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.158849
M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1258569
M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10819299
M43249	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1685733
M43249	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0810191

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M43249	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0842158
M43249	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.080276
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M43249	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1259453
M43249	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.078788
M43249	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08178826
M43249	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.0799587
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M43249	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.084091
M43249	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16368454
M43249	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.165898
M43249	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0901667
M43249	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1856087
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M43255	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.19222524
M43255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.18638198
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M43256	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2128851

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M43256	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.2128851
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M43256	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.21288506
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M43256	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1980462
M43256	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.2128851
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M43256	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2023855
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M43256	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.27883177
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M43256	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2206773
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.21288506
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2128851
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2128851
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2205963
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1960981
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.21899095
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.2842903
M43256	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1963527
M43256	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.3146898
M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2270017
M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2098415
M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2197566
M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.1960981

M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1949425
M43256	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.213158
M43256	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2472862
M43256	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.19111054
M43256	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2851104
M43256	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2128851
M43256	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.21800401
M43256	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1963527
M43256	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1963527
M43258	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0905425
M43258	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1204742
M43258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.102261
M43258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0839427
M43258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1037566
M43258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.085221
M43258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08532797
M43258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1268854
M43258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09981048
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2177364
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1018652
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1674667
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0763296
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09124935
M43258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1204528
M43258	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0882355
M43258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0864542
M43258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0774901
M43258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.0938607
M43258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1006907
M43258	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0965601
M43258	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0993362
M43374	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0797402
M43374	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1059633
M43374	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1007982
M43374	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.091746
M43374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.120234
M43374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0796742
M43374	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1331284
M43374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11630802
M43374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1030672
M43374	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1034921
M43374	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0990597
M43374	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.08404005
M43374	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0854322
M43392	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1857434
M43392	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2659709
M43392	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2285835
M43392	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3381766
M43392	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	-0.2522389
M43392	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.1830362

M43392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.3036808
M43392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2708607
M43392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.2379504
M43392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1805441
M43392	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.2273153
M43392	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.27813608
M43392	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.19804009
M43392	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaera	-0.2526695
M43392	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.25074449
M43392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.2540508
M43392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	0.26745815
M43392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.1937877
M43392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	0.22067776
M43392	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__Brachyspirae	-0.3208908
M43392	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.30528933
M43392	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcus	0.21291397
M43392	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobia.o__WCHB1.41.f__RF	0.3595559
M43400	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.13105795
M43400	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.1168324
M43400	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.114951
M43400	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	-0.1404001
M43400	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.08684769
M43400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1663531
M43400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.1831972
M43400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	-0.1527536
M43400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	-0.120048
M43400	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales	-0.0898847
M43400	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.1016194
M43400	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	-0.0960513
M43400	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.0861469
M43400	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.0901521
M43400	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.0897416
M43400	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.17303676
M43400	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.0878687
M43412	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0813919
M43412	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.0832587
M43412	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales	0.08329279
M43412	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.0865749
M43412	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.09697596
M43449	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	0.14285302
M43449	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	0.1090074
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	0.26017123
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	0.2396159
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.20066327
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	0.1796168
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirillales	-0.0825524
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	0.10214442
M43449	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales	0.15443974
M43449	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	0.14419686
M43449	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.12654774

M43449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08374476
M43449	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.12260019
M43449	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.21003026
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M43449	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.14365542
M43493	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0976192
M43493	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.0935031
M43493	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0823335
M43493	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.0797094
M43493	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0827645
M43493	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob:	-0.0899032
M43493	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0782222
M43496	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2805401
M43496	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.279236
M43496	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2479145
M43506	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1092841
M43506	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0993548
M43506	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.131579
M43506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1086701
M43506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12884683
M43506	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1040417
M43506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0956441
M43506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1464637
M43506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11747462
M43506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0929439
M43506	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08939665
M43506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1515879
M43506	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1223668
M43506	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1493883
M43506	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0941702
M43506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0980831
M43506	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11458573
M43506	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1062424
M43506	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0918572
M43506	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1113131
M43507	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.098595
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M43507	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace:	0.09413711
M43507	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0887613
M43507	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0937036
M43507	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib:	0.12223334
M43507	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15061522
M43507	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10582593
M43507	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11348665
M43530	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0761996
M43530	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08003188
M43530	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0734942
M43530	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0868685
M43530	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1086173
M43530	family	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales.f__	0.08779935

M43530	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09654073
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3167238
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2636753
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1463577
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0804715
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1078983
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10639054
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1953299
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1363122
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.115925
M43530	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.09169201
M43530	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08067607
M43530	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1597492
M43530	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.088668
M43530	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07738225
M43530	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.15755588
M43530	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1079437
M43530	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1167188
M43530	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1219191
M43535	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.29087394
M43535	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29087394
M43535	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.36651803
M43535	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.237008
M43535	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.33005914
M43535	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2610424
M43535	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.25159302
M43535	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.30585604
M43535	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.25986913
M43535	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.42711847
M43535	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.29087394
M43535	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.31859984
M43535	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.28911248
M43586	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3190445
M43586	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.284453
M43586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.3926122
M43586	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2319475
M43586	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2463505
M43586	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2502643
M43586	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3124377
M43586	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.27567913
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4841153
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5668342
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2359794
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2634948
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2478129
M43586	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3795631
M43586	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2276191
M43586	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.2888611
M43586	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2727146
M43586	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.27175084

M43586	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2779427
M43586	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.2748885
M43586	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.4020302
M43586	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2996629
M43586	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2343078
M43586	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2528772
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2391962
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2748885
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3999358
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2528772
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.3262965
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3942748
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2613901
M43586	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2803423
M43586	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.3939327
M43586	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2783995
M43586	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2740443
M43586	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.3602213
M43591	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.26822998
M43591	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1959989
M43591	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.20959603
M43591	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.29412227
M43591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2144033
M43591	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.193386
M43591	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.25610349
M43591	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2576293
M43591	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.18203229
M43591	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1881328
M43591	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2324448
M43761	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.3716241
M43761	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2569715
M43761	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.2335709
M43761	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.306126
M43761	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.3384687
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M43761	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2486021
M43761	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3262852
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M43761	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3559642
M43761	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.4399476

M43761	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2335709
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M43761	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.2335709
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M43761	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	0.38525332
M43761	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.23357158
M43761	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2738313
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M43761	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2436354
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M43761	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3912026
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M43761	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2486021
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M43761	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3569311
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M43761	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.23357158
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M43761	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2335709
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M43802	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.18776254
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M43802	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.24632447
M43802	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17779
M43802	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.24489248
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M43807	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.09319947
M43807	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.1198287
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M43807	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13039221
M43807	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.13023954
M43807	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0782902
M43807	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08361584
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M43829	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2241065
M43830	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2753124
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M43830	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5563596
M43830	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5026922

M43830	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20116942
M43830	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21832256
M43830	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.3726366
M43830	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.41191453
M43830	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2319629
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M43831	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3186382
M43831	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.2086867
M43831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5059721
M43831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4925153
M43831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2196794
M43831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3097289
M43831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2820701
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M43847	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.0960928
M43847	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1035679
M43847	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0921002
M43847	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1309205
M43847	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.0803664
M43847	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.109949
M43847	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1366332
M43847	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13819874
M44526	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08398099
M44526	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoci	0.11045386
M44526	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.11190763
M44526	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1192024
M44526	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1204567
M44526	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0888133
M44526	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09597411
M44526	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0886473
M44577	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0887105
M44577	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851542
M44577	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0978004
M44577	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1533587
M44577	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea	-0.0986648
M44577	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1241654
M44577	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1064313
M44577	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1105964
M44577	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0933083
M44577	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0982489
M44577	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1288412
M44621	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.21158777
M44621	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18508691
M44621	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.21392
M44621	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21158777
M44621	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1793748
M44621	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18324427
M44621	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2757185

M44621	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1787767
M44621	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1870487
M44621	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__I	0.18104102
M44621	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2250143
M44621	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2421584
M44621	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1765017
M44621	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319.	-0.1739013
M44621	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21851065
M44621	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1688149
M44621	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1734594
M44621	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1698195
M44621	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.20711606
M44621	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.21158777
M44621	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1924608
M44621	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1790895
M44621	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1735835
M44621	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1898291
M44621	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1705778
M44621	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.1843099
M44644	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.21440546
M44644	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.22963898
M44644	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17993027
M44644	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.19073826
M44644	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.21117429
M44644	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.20458017
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M44644	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.19369372
M44644	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.24714911
M44644	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21203544
M44644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2256303
M44644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1962921
M44644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2824713
M44644	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.28686959
M44644	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__E	0.22065068
M44644	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20275158
M44644	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16909269
M44644	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36366944
M44644	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.20443721
M44644	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.214109
M44644	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.20850405
M44644	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21761778
M44644	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2252728
M44656	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08902716
M44656	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10014317
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M44656	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.12587321
M44656	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__P	0.08032187
M44656	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0870555
M44656	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.091418
M44656	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0971534

M44656	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09601014
M44663	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2379881
M44663	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2018037
M44663	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2588508
M44663	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2094995
M44663	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1778402
M44663	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2542362
M44663	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1682826
M44663	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1768381
M44663	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.38276871
M44663	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1640624
M44663	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.20134692
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M44675	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11153499
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2396042
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0934118
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2091086
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0838548
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0906282
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11815517
M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0802437
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M44675	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.106937
M44675	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11418256
M44675	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10633364
M44675	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1781449
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M44681	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24535755
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M44681	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	-0.2317018
M44681	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillacea	0.33841177
M44681	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.28751584
M44681	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.21919474
M44681	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.35478412
M44681	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.2302654
M44681	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.26130786
M44681	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2038858
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M44681	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22751096
M44681	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2636377
M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.24786045
M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.26130786
M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.31642877
M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.3674203
M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22143961

M44681	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.31761577
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M44681	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.33541484
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M44681	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.2262301
M44681	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.3025939
M44688	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.21350736
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M44688	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2516552
M44688	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24493425
M44688	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2507478
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M44872	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0841589
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M44872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1105425
M44872	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1015603
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M44872	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0977963
M44872	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1170693
M44872	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1264227
M44872	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10966752
M44872	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1153186
M44876	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1856926
M44876	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.18270975
M44876	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.22524496
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M44876	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.21241833
M44876	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.27576153
M44876	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3579964
M44876	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2390618
M44876	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27669783
M44876	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2302914
M44876	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2164921
M44876	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29443455
M44876	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1975958
M44876	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2561787
M44876	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1938105
M44877	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.08162917
M44877	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.08407
M44877	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.07708356
M44877	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1759608
M44877	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1292503
M44877	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0759476
M44877	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10412677
M44877	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	0.0903911
M44877	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15116679

M44877	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08197568
M44877	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0934457
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M44878	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20730929
M44878	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2304811
M44878	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.27824206
M44878	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.2054904
M44878	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2216892
M44878	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.30853432
M44878	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.417301
M44878	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25699003
M44878	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.20730929
M44878	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2373326
M44878	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1857572
M44878	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2040629
M44878	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22795099
M44878	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2004777
M44878	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1949756
M44878	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.2096799
M45413	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2587124
M45413	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3524931
M45413	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.34433
M45413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3137165
M45413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2544602
M45413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.25228856
M45413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2368514
M45413	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.25892049
M45413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.27718068
M45413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33711531
M45428	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1282989
M45428	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1018808
M45428	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.086358
M45428	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08143317
M45428	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1259886
M45428	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875938
M45428	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1018808
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M45428	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1090182
M45428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0968742
M45428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10740257
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M45428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.08162527
M45428	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.1018808
M45428	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0833917
M45428	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1311311
M45428	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1037713
M45428	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13525931
M45428	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1211455
M45428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1392098

M45428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09476259
M45428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0953466
M45428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0968405
M45428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.1018808
M45428	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.07939056
M45428	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemat	-0.1018808
M45428	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0949678
M45428	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0900664
M45428	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0972067
M45428	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0805951
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M45428	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1006581
M45428	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0913979
M45428	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0850155
M45428	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08248629
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.107191
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1018808
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0849437
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0938695
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1018808
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M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18640369
M45428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0870593
M45428	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1018808
M45428	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0808663
M45428	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.0975624
M45428	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.1039837
M45428	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08067994
M45428	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0865961
M45434	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09827894
M45434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2670468
M45434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2259674
M45434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0966095
M45434	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1604598
M45434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09656339
M45434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10429194
M45434	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1315615
M45434	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1343893
M45966	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.3249732
M45966	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26739652
M45966	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.3489244
M45966	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.27944139
M45966	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.25196402
M45966	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25288767
M45966	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.3033446
M45966	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.24706571
M45966	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.30991678
M45966	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.31988581
M45966	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.26999066

M45966	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22650227
M45966	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.24831043
M45966	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.26014406
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.40796565
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.24103391
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.2587161
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22882122
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.28930877
M45966	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.26685776
M45966	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2482647
M45968	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21801581
M45968	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18229003
M45968	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.26121026
M45968	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.169202
M45968	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3899316
M45968	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.216344
M45968	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26986787
M45968	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23257167
M45968	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2004031
M45968	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.17912559
M45968	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32945912
M45968	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17991186
M45968	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.16909171
M45968	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.18972239
M45968	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2110671
M45970	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1150127
M45970	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0882002
M45970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1430229
M45970	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09266395
M45970	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09720357
M45970	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11102711
M45986	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09362411
M45986	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.0856799
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M45986	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.11023839
M45986	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.20810041
M45986	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.18149836
M45986	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.13059205
M45986	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13526394
M45986	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1218875
M45986	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1007686
M45986	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0919776
M45986	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1337216
M45986	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0950641
M45986	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.09044801
M45986	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09584081
M45986	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.0848119
M45986	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.11590667
M46109	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1828576

M46109	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.20324246
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M46109	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20077113
M46109	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.1824074
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M46142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1147891
M46142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1255724
M46142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09796186
M46142	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09785
M46142	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09035987
M46142	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19087584
M46142	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0809381
M46144	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2287517
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M46144	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.2250877
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M46144	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.22072183
M46144	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3731899
M46144	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2335353
M46144	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.229355
M46144	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2937734
M46144	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.21054036
M46144	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.198501
M46144	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19587015
M46144	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.28474936
M46144	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.183401
M46144	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2276053
M46225	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10052483
M46225	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08317729
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M46225	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09042101
M46225	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.0936157
M46225	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09607355
M46225	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1081491
M46225	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11501397
M46225	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09821751
M46225	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08727755
M46225	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.08545713
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M46283	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.1572729
M46283	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12540731
M46283	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1268271
M46283	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08741072
M46283	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1496117
M46283	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.092835
M46283	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08407551
M46283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1304468
M46285	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2336486
M46285	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1974111

M46285	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3399249
M46285	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2047671
M46285	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.4409061
M46285	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.22341521
M46285	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2147006
M46285	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.19582581
M46285	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.21721092
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6414341
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5269011
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2420348
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3818856
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31402719
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2062661
M46285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27134993
M46285	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2731407
M46285	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2141792
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2432793
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2807682
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2402869
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.404253
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2102088
M46285	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.22634503
M46285	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1876891
M46285	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2085835
M46285	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2660619
M46336	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10797502
M46336	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0996492
M46336	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0992257
M46336	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1060358
M46336	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.08741985
M46336	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08782674
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.12001128
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.20087605
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.14666945
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08918106
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.13359062
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.10956413
M46336	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0999135
M46336	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.11082131
M46336	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1232669
M46336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09486681
M46336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08781063
M46336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08865305
M46336	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0862442
M46347	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2250839
M46347	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2278594
M46347	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.21904225
M46347	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18597172
M46347	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22131046
M46347	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	0.20391447

M46347	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.1780922
M46347	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.23109821
M46347	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.1848885
M46347	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2081081
M46347	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21284027
M46347	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19899721
M46347	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.20747825
M46347	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.30937174
M46347	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.1939852
M46347	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.1939852
M46347	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2908804
M46347	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.20632524
M46355	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2243259
M46355	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.1909667
M46355	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2822681
M46355	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2920854
M46355	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	0.23162623
M46355	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3795331
M46355	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2848719
M46355	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2824679
M46355	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2215202
M46355	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20906983
M46355	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.22792793
M46355	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2161536
M46355	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.48073514
M46355	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2168727
M46355	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2508933
M46355	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1921329
M46355	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.255877
M46371	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3516792
M46371	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.255208
M46371	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.23575788
M46371	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2681091
M46371	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5929133
M46371	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4058133
M46371	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2926235
M46371	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3816404
M46371	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28867055
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M46371	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3674591
M46371	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2898149
M46371	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.37697549
M46371	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.3650806
M46371	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2896039
M46371	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2364845
M46398	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.228322
M46398	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2158387
M46398	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27283546
M46398	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20416395
M46398	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3462576

M46398	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2021983
M46398	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.22779195
M46398	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.19546041
M46398	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23229338
M46398	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.271086
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M46410	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0866028
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2729857
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2771991
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1343971
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1650427
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0861819
M46410	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1160178
M46410	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1886063
M46410	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1284291
M46410	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0832105
M46410	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1023083
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M46410	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0764374
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M46410	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1076664
M46410	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1993671
M46455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17928603
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M46455	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.18065007
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M46455	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6385634
M46455	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1911687
M46455	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4426312
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M46455	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2619314
M46455	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2114053
M46455	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17465175
M46455	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1859436
M46455	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2461896
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M46463	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1032733
M46463	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0833206
M46463	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08343457
M46463	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0836208
M46463	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0826264
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M46463	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0829313
M46473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3174041
M46473	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1812223

M46473	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1797667
M46473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1852673
M46473	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2105488
M46487	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2155867
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M46487	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22767076
M46487	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.21317721
M46487	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.23624425
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M46487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.38506629
M46487	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.2790157
M46487	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.28759543
M46487	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2529752
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M46493	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.0760749
M46493	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.08289983
M46493	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellace	0.13099372
M46493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1934973
M46493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2082888
M46493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1319918
M46493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08894003
M46493	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09831721
M46493	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15153321
M46493	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.1014546
M46493	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09926361
M46493	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.16150083
M46493	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.07825618
M46493	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0856173
M46500	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08322059
M46500	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09158651
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M46500	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1118979
M46500	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08724357
M46500	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.08927259
M46500	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10521109
M46500	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08401934
M46500	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0885715
M46500	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0883814
M46500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.08291299
M46500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10463824
M46500	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0958564
M46500	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.13533793
M46500	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0818672
M46500	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11165627
M46500	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.09575735
M46500	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0957114
M46500	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0911402
M46500	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0947303
M46500	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.11332339

M46500	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1739669
M46500	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1157834
M46515	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31164228
M46515	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19386606
M46515	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1974923
M46515	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.369973
M46515	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	0.18835527
M46515	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.30928106
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.8489871
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7793212
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2039323
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2073592
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2485038
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.26075765
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.9189836
M46515	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20938858
M46515	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3783201
M46515	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3162666
M46515	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2079474
M46515	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3683303
M46517	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	0.18522068
M46517	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.22354646
M46517	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.175527
M46517	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.1733239
M46517	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2028206
M46517	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2059316
M46517	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2205225
M46517	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24396091
M46517	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.2460482
M46517	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.1701551
M46517	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23902166
M46517	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22044109
M46517	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22455805
M46517	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30766304
M46517	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.21543261
M46517	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.17761221
M46537	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07665467
M46537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0835976
M46537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.14193296
M46537	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.12484435
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1945434
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.098935
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0807561
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0829187
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0884586
M46537	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.09058
M46537	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0796317
M46537	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1129482
M46537	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.080084
M46537	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999449

M46537	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11836329
M46537	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1081388
M46539	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0832407
M46539	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0800494
M46539	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0907079
M46539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0844507
M46539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08764175
M46539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08365097
M46539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0985239
M46539	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0863274
M46539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2116288
M46539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0834751
M46539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.133858
M46539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.096118
M46539	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08004193
M46539	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08091203
M46539	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0798457
M46539	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.089212
M46597	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1185903
M46597	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09992665
M46597	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1176701
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2891685
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1623511
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1301846
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1251679
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15286336
M46597	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09189327
M46597	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1487553
M46597	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1677893
M46597	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12292843
M46597	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.121743
M46597	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0906071
M46597	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1545164
M46599	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26507065
M46599	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3993997
M46599	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.26275174
M46599	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29031489
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6207225
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.8138861
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2326598
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2728801
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.41368741
M46599	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.5478615
M46599	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20387146
M46599	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2736256
M46599	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23233007
M46599	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.329605
M46599	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.2118133
M46599	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.5331132
M46604	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2027722

M46604	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1766016
M46604	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21579902
M46604	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.22451732
M46604	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.2169106
M46604	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1766569
M46604	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17665196
M46604	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.196224
M46604	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2197316
M46604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1902284
M46604	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.17113956
M46604	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.26526543
M46619	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0767776
M46619	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0937046
M46619	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.0768097
M46619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0852247
M46619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09652418
M46619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0868445
M46619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0797646
M46619	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0822224
M46619	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0778889
M46619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0818687
M46619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.131667
M46619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0942442
M46619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1782498
M46619	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1033898
M46619	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0860513
M46619	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0801669
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2667387
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1431672
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2192031
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1372449
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1261687
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1564343
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1367979
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1340926
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0883515
M46619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0863351
M46619	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.0799909
M46619	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.0979742
M46619	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0874418
M46619	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0902283
M46619	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0889102
M46619	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09354006
M46619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1038031
M46619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1245695
M46619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0824123
M46619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0795251
M46619	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0972125
M46619	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08523101
M46619	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0930714

M46619	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0762816
M46619	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2265555
M46632	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0993154
M46632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0883206
M46632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1523753
M46632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0997053
M46632	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1040251
M46632	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0820758
M46632	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0857875
M46632	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1137748
M46632	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0810036
M46632	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1280943
M46632	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0811625
M46646	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1018509
M46646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2215324
M46646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1597858
M46646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1110656
M46646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1531696
M46646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1229899
M46646	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.09234483
M46646	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08744655
M46646	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1067139
M46646	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.108909
M46661	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2061925
M46661	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.19040393
M46661	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	0.17997254
M46661	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1777647
M46661	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2061925
M46661	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2016213
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M46661	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1676192
M46661	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16925014
M46661	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19038797
M46661	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.1827248
M46661	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.17997254
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.29038901
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.27167421
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.22893908
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.27698138
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.21824521
M46661	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.18232932
M46661	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.17997254
M46661	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	0.17997254
M46661	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.17997254
M46661	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.2233281
M46661	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	0.17997254
M46661	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	0.16655033
M46661	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	-0.2881915
M46661	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.1799718
M46661	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	-0.2018372

M46661	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.3918169
M46661	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	0.28168171
M46661	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.18001725
M46661	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.23801519
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	0.22738192
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.19270105
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.35700652
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.29208249
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.3642928
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.19496955
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.20494234
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.24265415
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.30572847
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.20553158
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.17879498
M46661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	0.17997254
M46661	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.22392392
M46661	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.17350568
M46661	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2309947
M46661	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.21482922
M46661	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17997254
M46661	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2318737
M46661	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.17997254
M46661	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18757587
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M46661	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20756338
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M46661	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2155348
M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1799718
M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.17997254
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M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21595388
M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.16846576
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M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.17997254
M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.20308115
M46661	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1908265
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M46661	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2189507
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.40875045
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.1785223
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.22214438
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23387276
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.18937312
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.17810859
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.17091495
M46661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.39628539
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M46661	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1888626
M46661	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.21032409
M46661	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.33481088
M46661	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.19602808
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M46677	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17339361
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M46677	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.26691318
M46677	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.25268047
M46677	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24447168
M46677	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.2258148
M46677	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.36086351
M46677	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	-0.1740017
M46677	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.18791465
M46677	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17521198
M46677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.17812685
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M46677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1960768
M46677	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20771569
M46677	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.211349
M46677	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.28559717
M46677	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2091262
M46677	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.18503998
M46677	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.23280299
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M46677	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.30024652
M46677	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2840429
M46677	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.20862987
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M46677	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.17957546
M46677	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.33331459
M46689	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1236739
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M46689	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.13324958
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M46689	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0889451
M46689	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1330688
M46689	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10351226
M46689	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1094117
M46689	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1210829
M46689	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1198621

M46689	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15883325
M46689	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1021723
M46689	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0884186
M46705	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.1129289
M46705	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.1230757
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M46705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	0.12717049
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M46705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcaceae	0.12876473
M46705	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcaceae	0.14793021
M46705	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	-0.086203
M46705	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0833319
M46705	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	0.09562493
M46705	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.0968099
M46705	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.08469578
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M46706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.3134303
M46706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.40366842
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M46706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellaceae	0.18664781
M46706	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.20913235
M46706	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Opitutaceae	-0.2239131
M46706	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41.f__RF	0.20904266
M46706	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2094609
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M46707	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.11311524
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M46707	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	0.13635064
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M46707	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	0.12711927
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M46707	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.08808469
M46707	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.09068681
M46707	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.09191371
M46707	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.112055
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M46740	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.0946671
M46740	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.07463061
M46740	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1655554
M46740	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	0.08957649

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M46740	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1601907
M46740	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1526208
M46740	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1008323
M46740	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.08807987
M46740	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15179915
M46740	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0863436
M46740	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07763458
M46740	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11768809
M46740	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0759762
M46740	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0949101
M46798	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.23860582
M46798	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.18467395
M46798	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2122195
M46798	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2898354
M46798	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3118545
M46799	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.12460347
M46799	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.0987243
M46799	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0832594
M46799	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0819781
M46799	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.08580862
M46799	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.11192237
M46799	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1004026
M46799	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1324664
M46898	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1016725
M46898	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1126667
M46898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08704608
M46898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.14393315
M46898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09500125
M46898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1056177
M46898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1510234
M46898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1128508
M46898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1095075
M46898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10002541
M46898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08857593
M46898	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10349374
M46898	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0832528
M46898	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0841469
M46898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1062241
M46898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.079911
M46898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17280662
M46898	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1072978
M46960	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0770238
M46960	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0931962
M46960	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1036731
M46960	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.08106736
M46960	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.07810076
M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2888232
M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2347813
M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1585741

M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1106716
M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11078525
M46960	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09753614
M46960	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08065648
M46960	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.086125
M46960	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1378844
M46960	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1522473
M46960	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1022415
M46960	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16907839
M46960	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10670705
M46960	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.078989
M46960	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0915382
M46960	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1195613
M46964	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2039411
M46964	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	(-0.2635793
M46964	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3126464
M46964	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.25917975
M46964	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.295711
M46964	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4169252
M46964	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3680251
M46964	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2164701
M46964	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21485453
M46964	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24584794
M46972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0928836
M46972	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09199753
M46972	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1325304
M46972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.11396853
M46972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10984009
M46972	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07784072
M46972	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07695147
M46972	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0915426
M46972	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09803751
M46972	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08133187
M46972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08754014
M46972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08381934
M46972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09670893
M46972	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08413464
M46989	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2405125
M46989	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	!-0.3582921
M46989	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.338005
M46989	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3193968
M46989	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23847643
M46989	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.29172485
M46989	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.23030558
M46989	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2255728
M47089	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08897315
M47089	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__!	-0.0796618
M47089	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1233251
M47089	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0951505
M47089	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.262813

M47089	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0914167
M47089	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.088024
M47101	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.082547
M47101	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0955644
M47101	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1119641
M47101	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07982307
M47101	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992825
M47101	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0997381
M47113	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2140713
M47113	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	0.1709181
M47113	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.18494064
M47113	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.23226493
M47113	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.17366064
M47113	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5255071
M47113	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3515283
M47113	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28040539
M47113	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1938541
M47113	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2493803
M47113	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3034212
M47113	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17927242
M47123	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0915382
M47123	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0796876
M47123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.083321
M47123	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0998262
M47123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1465168
M47123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1529897
M47123	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1209381
M47123	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.087325
M47183	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1167132
M47183	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1251704
M47183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.115415
M47183	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1031762
M47183	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0939271
M47183	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0847323
M47183	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1026197
M47194	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1058153
M47194	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0781075
M47194	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1309313
M47194	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0919498
M47194	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1096505
M47194	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1587476
M47194	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0985591
M47194	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0856695
M47194	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0913424
M47194	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.1076153
M47194	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1459873
M47194	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0918448
M47194	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1297692
M47194	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0847746
M47195	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.111862

M47195	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0757799
M47195	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1497825
M47195	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0938403
M47195	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1001411
M47195	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1069371
M47195	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0866683
M47195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1881275
M47195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.102392
M47195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0976503
M47195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1085115
M47195	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0888285
M47195	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0878544
M47195	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1042272
M47195	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1113863
M47195	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0980239
M47195	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.125908
M47196	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1454983
M47196	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1325732
M47196	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1295867
M47196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2140005
M47196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0967175
M47196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1702977
M47196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1057571
M47196	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1102482
M47196	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1058615
M47196	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0883751
M47196	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0900974
M47196	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1235869
M47197	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1441809
M47197	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0923339
M47197	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1195324
M47197	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0981191
M47197	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1110321
M47197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2007226
M47197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.152155
M47197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1473393
M47197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1102716
M47197	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1042471
M47197	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0844239
M47197	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1433238
M47197	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.0901224
M47197	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1488276
M47197	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0905021
M47203	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1055745
M47203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1593841
M47203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0784657
M47203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1798048
M47203	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.077606
M47203	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0762713
M47203	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0771978

M47203	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.08561382
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.3787287
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0858908
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2857735
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1490564
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1251246
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1030967
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11988392
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1356964
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.149999
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1005993
M47203	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08080919
M47203	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1227847
M47203	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0752581
M47203	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910759
M47203	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13768371
M47203	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0803878
M47203	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1328174
M47203	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0786805
M47203	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1927161
M47204	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0945709
M47204	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0953813
M47204	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1422712
M47204	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1569811
M47204	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.0815587
M47204	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08256419
M47204	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0866124
M47204	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0820772
M47204	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.10475766
M47204	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09095328
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.3548681
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2492151
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1287888
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1060338
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0861759
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13513853
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1222722
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1322342
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0900392
M47204	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.0847496
M47204	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08683423
M47204	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1157059
M47204	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0740801
M47204	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0884578
M47204	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0746794
M47204	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13592175
M47204	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0925857
M47204	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1209923
M47204	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1774606
M47205	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1994646

M47205	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17075557
M47205	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1688313
M47205	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19911828
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1904038
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1851156
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2959507
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2158999
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3368102
M47205	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1769912
M47205	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1981763
M47205	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1962068
M47205	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.2070116
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7164084
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2406975
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5788454
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2688623
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2431507
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2127739
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2997627
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.4082556
M47205	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.3260348
M47205	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20819694
M47205	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2284026
M47205	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2177681
M47205	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3875524
M47211	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1961365
M47211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1961365
M47211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.24740223
M47211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2624437
M47211	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2071811
M47211	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.24344265
M47211	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.19304852
M47211	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.1972243
M47211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.24905067
M47211	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.27949507
M47211	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.19951563
M47211	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22578188
M47211	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2062887
M47211	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1961365
M47211	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2489593
M47217	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.10123559
M47217	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.10535883
M47217	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09823946
M47217	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1428431
M47217	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1154146
M47217	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1226523
M47217	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.07857753
M47217	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.10123859
M47217	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.08741497
M47217	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0888783

M47218	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1195549
M47218	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.07678585
M47218	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.080114
M47218	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0764038
M47218	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.08531396
M47218	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__	0.09084596
M47218	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09312505
M47218	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	0.09732522
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2574147
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteres	-0.1725928
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0860992
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.1373322
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.14685177
M47218	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.10275062
M47218	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.088851
M47218	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales.f__	0.07761166
M47218	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1231615
M47218	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.1082421
M47218	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1282994
M47218	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.15945316
M47218	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales	-0.1052
M47218	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0743196
M47218	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1295689
M47218	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.1094854
M47219	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.0912526
M47219	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.10231896
M47219	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1306982
M47219	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	-0.089727
M47222	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1777228
M47222	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.2423404
M47222	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteres	-0.2063804
M47222	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.1842193
M47223	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	-0.0796585
M47223	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales.f__	-0.1091189
M47223	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1170758
M47223	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales	-0.0879808
M47223	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1742042
M47223	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteres	-0.1214586
M47223	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1059092
M47223	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales.f__	-0.0765263
M47223	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1251138
M47224	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales.f__	-0.0757359
M47224	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08049328
M47224	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococci	0.07503181
M47224	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1464867
M47224	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteres	-0.102423
M47224	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.0775204
M47224	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.13227972
M47224	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.0873945
M47224	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1197791

M47224	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08416444
M47224	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0764524
M47224	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0749967
M47224	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1189001
M47225	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08633667
M47225	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10762032
M47226	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11229766
M47226	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.0813326
M47226	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12015859
M47226	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0941479
M47226	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1035706
M47227	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1135773
M47227	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1224172
M47227	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.092387
M47227	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1668159
M47227	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1266684
M47227	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1113797
M47227	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1295886
M47227	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.088662
M47227	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1407207
M47227	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0998151
M47227	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1553554
M47230	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0968113
M47230	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1395574
M47230	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0902651
M47230	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1079527
M47230	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0960216
M47230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.089611
M47230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1189629
M47230	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0916858
M47230	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0882791
M47231	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0808676
M47231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08202777
M47231	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.08985402
M47233	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0860021
M47233	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0881255
M47233	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1080152
M47237	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2351652
M47237	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3756137
M47237	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2197438
M47237	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2386049
M47237	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2217301
M47237	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.2704757
M47237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3362286
M47237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2334131
M47237	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.2651315
M47237	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2061077
M47237	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.23695922
M47239	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0856231
M47239	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0942331

M47247	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0841319
M47247	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1056518
M47247	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0850019
M47247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2619583
M47247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1909033
M47247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.131033
M47247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.090538
M47247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0888651
M47247	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15145789
M47247	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1336308
M47247	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09521722
M47247	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08545305
M47247	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16506842
M47247	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1165076
M47247	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.14619
M47254	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23932568
M47254	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2691122
M47254	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.2860459
M47254	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.28590342
M47254	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22885222
M47254	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.20387857
M47254	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1912145
M47254	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.3089453
M47254	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2917107
M47254	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.29792471
M47254	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2238409
M47254	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2833428
M47254	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.29722411
M47254	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2533452
M47254	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.24318582
M47254	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.22818754
M47254	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.271762
M47255	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.097861
M47255	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1071177
M47255	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0927624
M47255	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0908558
M47255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.152735
M47255	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1126345
M47255	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1545395
M47259	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1760302
M47259	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1884512
M47259	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.187024
M47259	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.195156
M47259	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.1915998
M47259	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2476865
M47259	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2049229
M47259	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1938513
M47259	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.17291338
M47259	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2086559
M47259	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1836236

M47259	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.20025397
M47259	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2003418
M47259	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2402425
M47259	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2445322
M47259	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1757001
M47261	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2503454
M47261	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1835148
M47261	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2247071
M47261	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2231444
M47261	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2631274
M47261	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1971457
M47261	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	0.21121839
M47261	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1847925
M47261	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.345261
M47261	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.184604
M47261	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1767129
M47261	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1925502
M47261	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2159895
M47261	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2630376
M47261	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2162524
M47261	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1826999
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2962991
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2250315
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2286946
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1887787
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1973191
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2568648
M47261	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1897635
M47261	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.21228527
M47261	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2139339
M47261	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.2496397
M47261	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1998787
M47261	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.3063528
M47263	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.177332
M47263	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2434339
M47263	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2976985
M47263	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22208123
M47263	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	-0.2568371
M47263	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	-0.2934024
M47263	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.202679
M47263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3058631
M47263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2102279
M47263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23597707
M47263	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.2112584
M47263	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.1936924
M47263	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.2419289
M47263	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.22630657
M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3424632
M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1856935
M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17714204

M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1713517
M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.28721712
M47263	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.221424
M47263	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.27526875
M47263	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1802167
M47263	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.24619241
M47263	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1836879
M47265	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1046905
M47265	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1414189
M47265	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.122603
M47265	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0859394
M47265	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2640195
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.152053
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0908641
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.105393
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.11803647
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.1028226
M47265	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	0.11145242
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3536369
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2897496
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1974874
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2051272
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13510072
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1241752
M47265	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09596398
M47265	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1392475
M47265	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1111641
M47265	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1020446
M47265	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1308089
M47265	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.087852
M47265	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1784051
M47265	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24194003
M47265	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1527208
M47265	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1025319
M47265	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1911523
M47266	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1135377
M47266	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1064023
M47266	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1151169
M47266	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0857797
M47266	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1540189
M47266	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1343678
M47266	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1014918
M47266	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0972981
M47266	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1002473
M47266	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0852785
M47266	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1359361
M47267	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.129229
M47267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.085561
M47267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1315445
M47267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1103549

M47267	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0849882
M47267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1291817
M47267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1440916
M47267	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.0898046
M47267	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.1184017
M47267	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1090039
M47267	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1433133
M47268	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09980402
M47268	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10205143
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M47268	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17348188
M47268	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09923934
M47268	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.1167288
M47268	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0933448
M47268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	0.23813849
M47268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.16186239
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M47268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.08778322
M47268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.13090669
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M47268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09258234
M47268	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0946118
M47268	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.10548267
M47268	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.10060071
M47268	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	0.160037
M47275	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0897107
M47275	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.0948103
M47275	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoci	0.10572001
M47276	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0878773
M47276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1028567
M47276	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1357813
M47276	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.10001648
M47276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0881854
M47276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.0928244
M47276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0935927
M47276	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1348825
M47277	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0963215
M47277	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1304562
M47277	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0980984
M47277	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1040865
M47277	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0988643
M47277	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0950829
M47280	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08560558
M47280	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.10342292
M47280	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1137715
M47280	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0855161
M47280	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0839668
M47280	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0876793
M47280	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08143535
M47280	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1074985

M47280	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.0939835
M47283	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09133706
M47283	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1218495
M47283	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08593684
M47283	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.1268202
M47283	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.11029093
M47283	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12870223
M47283	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.14022035
M47283	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09500835
M47283	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12496403
M47283	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09627972
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.10835219
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09627972
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11339809
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08420054
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08716123
M47283	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0839314
M47283	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09212397
M47291	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0837308
M47291	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0973508
M47291	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0867179
M47291	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09258926
M47291	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2311157
M47291	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1691658
M47291	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1364544
M47291	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1312082
M47291	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0928287
M47291	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1916504
M47291	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0827095
M47291	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1044299
M47291	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1504553
M47291	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0867508
M47291	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1647832
M47291	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1414526
M47298	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.439065
M47298	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2372526
M47298	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2482639
M47298	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.26854271
M47298	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2369873
M47298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.36862
M47298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.3038454
M47298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2531502
M47298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2279969
M47298	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3119172
M47298	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2544194
M47298	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3770053
M47298	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2559045
M47298	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.2691707
M47298	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2737479
M47298	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2358501

M47307	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1454143
M47307	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0929286
M47307	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0858353
M47307	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0824323
M47307	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1367918
M47307	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0902689
M47307	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.081561
M47307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1855673
M47307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1195501
M47307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.145447
M47307	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1280712
M47307	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1345595
M47307	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0902013
M47307	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1629489
M47308	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1898804
M47308	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1880305
M47308	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1820494
M47308	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17610795
M47308	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1720769
M47308	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.1827383
M47308	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2503549
M47316	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0929946
M47316	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1229826
M47316	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0943317
M47316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2118831
M47316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1153544
M47316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1534913
M47316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.097949
M47316	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.140808
M47316	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0976368
M47316	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1105215
M47316	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1230975
M47316	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.141942
M47316	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0874661
M47316	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1830191
M47317	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1282269
M47317	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1032811
M47317	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2180747
M47317	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0988155
M47317	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1846174
M47317	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0948354
M47317	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.088702
M47317	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.092188
M47317	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08272654
M47317	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1241647
M47317	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0914553
M47317	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1046992
M47320	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0803033
M47320	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1254344
M47320	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0864046

M47320	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07845002
M47320	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1143797
M47320	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09813332
M47320	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0893756
M47320	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1008686
M47320	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0876125
M47320	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.0883541
M47323	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.142871
M47323	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1372836
M47323	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1063634
M47323	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0789172
M47323	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1283508
M47323	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1330392
M47323	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0852426
M47323	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0822453
M47323	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.104801
M47323	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0986562
M47323	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.087442
M47323	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.07961192
M47323	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.1081751
M47328	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1205653
M47328	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09426237
M47328	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1368841
M47328	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1130247
M47328	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08566299
M47328	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1581016
M47328	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.12056
M47328	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0956203
M47328	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0936181
M47328	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0850969
M47328	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1328555
M47330	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19362027
M47330	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.26824058
M47335	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.16794351
M47335	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.16993094
M47335	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1723591
M47335	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.22752176
M47335	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.24953224
M47335	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.26790842
M47335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.19022377
M47335	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.26730336
M47335	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.21656726
M47335	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2477265
M47335	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1869666
M47335	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.20910877
M47335	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18299758
M47335	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.1741217
M47335	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.18152653
M47335	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.24242666
M47335	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.18152653

M47335	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.21849656
M47335	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2059069
M47335	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.24839105
M47335	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2205051
M47337	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0832931
M47337	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08818121
M47337	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.124686
M47337	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.12600921
M47337	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.09489753
M47337	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.12145337
M47337	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09093088
M47346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17740694
M47346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2471068
M47346	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2148503
M47346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4399399
M47346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4974919
M47346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.21039134
M47346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3318128
M47346	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19190314
M47346	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2063454
M47346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19080012
M47346	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1811059
M47346	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2759306
M47347	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1910555
M47347	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.18782543
M47347	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2067224
M47347	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1823091
M47347	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.22906149
M47347	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2387149
M47352	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2077322
M47352	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1934606
M47352	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2699924
M47352	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2017757
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.8815616
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2086529
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5572679
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2757595
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.331987
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2900809
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.24272096
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2538174
M47352	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2223859
M47352	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.25958903
M47352	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2768391
M47352	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2037966
M47352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.28680177
M47352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1807735
M47352	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.1802201
M47352	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2353507
M47352	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.5014386

M47353	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.11264781
M47353	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.09855293
M47353	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.0864286
M47353	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10824217
M47353	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1399497
M47353	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.09274227
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.10978127
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09849412
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.13668001
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09802779
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09633188
M47353	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08860098
M47353	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.10537777
M47353	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0900286
M47353	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.16443003
M47353	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.10125117
M47353	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.09291366
M47353	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.11258721
M47353	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.09274393
M47353	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.09282426
M47353	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.13135492
M47353	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08030478
M47353	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08471064
M47353	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10707498
M47353	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.12640754
M47353	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.10434007
M47353	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.12640754
M47353	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08808131
M47353	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.11914131
M47353	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.10119795
M47353	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.13538455
M47353	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1057857
M47353	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.09044473
M47353	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09271917
M47353	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.13021331
M47358	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.312974
M47358	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3407633
M47358	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2990549
M47358	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26782473
M47358	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2754097
M47358	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.30623637
M47358	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.38096503
M47358	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.32384751
M47358	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.32965031
M47358	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.34965698
M47358	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.31548936
M47358	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4224248
M47358	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23667809
M47358	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.46707114
M47358	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.28406037

M47358	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.3633804
M47358	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.25162455
M47358	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.26988869
M47358	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.39733024
M47358	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.27651404
M47358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.30585353
M47358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24474466
M47358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.27651404
M47358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27576494
M47358	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.26080692
M47358	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.282637
M47358	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5537212
M47359	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2236278
M47359	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2268011
M47359	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.319978
M47359	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6095804
M47359	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6084276
M47359	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2565323
M47359	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3468387
M47359	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.26128229
M47359	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.23624619
M47359	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2618274
M47359	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2191893
M47359	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1988822
M47359	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31554856
M47359	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.186074
M47359	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2214644
M47359	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2062606
M47380	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1025853
M47380	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.11837
M47380	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.089095
M47380	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1065807
M47380	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.09055884
M47380	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.0856951
M47380	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2003789
M47380	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1444154
M47380	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1077406
M47380	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11814512
M47380	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1310514
M47380	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1783691
M47380	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1109501
M47380	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12161451
M47380	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0864945
M47380	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0841201
M47380	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.07920344
M47380	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.09922
M47380	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1141595
M47380	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1434006
M47380	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0944004
M47381	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1869189

M47381	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.17815314
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M47381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2120576
M47381	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.192708
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M47381	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.16433913
M47381	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.15936426
M47381	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1858746
M47381	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.1893238
M47388	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0850594
M47388	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1555275
M47388	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1031763
M47388	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1234425
M47388	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1015858
M47388	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1499548
M47388	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08293703
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2928849
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2077892
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1058666
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.156734
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1021036
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11853196
M47388	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1035442
M47388	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15009274
M47388	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1217009
M47388	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843439
M47388	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19407286
M47388	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1385483
M47388	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1723218
M47391	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.102705
M47391	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0837477
M47391	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0827859
M47391	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0832248
M47391	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1253644
M47391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09223145
M47391	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.09143585
M47391	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0862774
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M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.2093164
M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0991029
M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1218926
M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1243916
M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10806567
M47391	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.099511
M47391	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1140237
M47391	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1341786
M47391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1019909
M47391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1562757
M47391	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13891871
M47391	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1034904

M47391	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1008936
M47392	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2695779
M47392	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.238929
M47392	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1708145
M47392	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1685129
M47392	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2801305
M47392	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.2806271
M47392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1755708
M47392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1828494
M47392	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.2148069
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3851366
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2697354
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3635955
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1696555
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.17239913
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1996993
M47392	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1726332
M47392	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1974367
M47392	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1792634
M47392	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2058212
M47392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.17760486
M47392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1948922
M47392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1820824
M47392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.20320443
M47392	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1743132
M47392	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1704757
M47392	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.3010948
M47431	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0920775
M47431	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1024304
M47431	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.106161
M47431	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.093504
M47431	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08080056
M47431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1893293
M47431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.106433
M47431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0947327
M47431	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0844627
M47431	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1012303
M47431	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0935018
M47437	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09509212
M47437	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.07714264
M47437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.101864
M47437	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.127525
M47437	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.08230238
M47437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.18768442
M47437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08111691
M47437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10539976
M47437	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.14152157
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2181527
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2272046
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0982559

M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0783645
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0846804
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19477897
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0819559
M47437	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12702451
M47437	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.1358708
M47437	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0971786
M47437	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.1001505
M47437	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.07428971
M47437	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12907151
M47437	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1384932
M47439	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11057334
M47439	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.09009527
M47439	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0869072
M47439	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1845511
M47439	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2437946
M47439	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0994246
M47439	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2018385
M47439	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1221622
M47439	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0981179
M47439	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0939933
M47439	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0892994
M47439	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.084139
M47439	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0970914
M47439	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0949168
M47497	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1960487
M47497	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2280615
M47497	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2237348
M47497	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.24860928
M47497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2752479
M47497	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2001567
M47497	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2751592
M47497	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2359616
M47497	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.48442371
M47545	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1362369
M47545	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.0931979
M47545	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1221303
M47545	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10273817
M47545	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.09556221
M47545	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1270947
M47545	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.126441
M47545	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0843645
M47545	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.11303221
M47545	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1262409
M47545	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0919772
M47545	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0958863
M47545	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1934089
M47545	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.1049204
M47545	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0961593
M47545	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0902194

M47545	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0964441
M47545	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.1095507
M47545	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1461744
M47545	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.0915194
M47545	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0925864
M47581	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1080276
M47619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09398015
M47619	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09117833
M47619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1871568
M47619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2311383
M47619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1126135
M47619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1284041
M47619	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1150278
M47619	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1537734
M47619	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08357123
M47619	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1124846
M47619	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.158101
M47619	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0949746
M47639	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.45344281
M47639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2281389
M47639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3541479
M47639	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21266485
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7059333
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7765737
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2775583
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31326737
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-1.0238529
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.3359517
M47639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.27917472
M47639	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	0.23124275
M47639	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.5114383
M47639	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2578467
M47639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2408513
M47639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2158086
M47639	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2919585
M47639	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.4211772
M47639	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.23175976
M47639	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2378576
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M47642	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0977076
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M47642	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.09200954
M47642	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0816265
M47642	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0847995
M47642	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0860708
M47642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1060753
M47642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0935843
M47642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.1223297

M47642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.101913
M47642	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0920887
M47642	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13701657
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M47642	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1001919
M47642	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1060379
M47642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0986012
M47642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.1060379
M47642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1485251
M47642	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1363469
M47642	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1085255
M47642	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1596623
M47642	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1190575
M47643	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2139716
M47643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2059455
M47643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.22767243
M47643	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.3332327
M47643	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.22850268
M47643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.814735
M47643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.239952
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M47643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1905451
M47643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3864482
M47643	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3947928
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M47643	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.2095849
M47643	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2284516
M47643	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1962525
M47643	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35094829
M47643	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.5150662
M47673	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2358961
M47675	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2216514
M47675	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.18740371
M47685	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09280586
M47685	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0885794
M47685	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1243497
M47685	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09280586
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M47685	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1480729
M47685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0934294
M47685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0896649
M47685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1283355
M47685	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.09295101
M47685	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.1024487
M47685	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0898202
M47685	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09962028

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M47685	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0849613
M47685	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.099941
M47685	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0968855
M47685	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0838906
M47685	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0964821
M47685	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0881739
M47686	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2115633
M47686	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2317641
M47686	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3496253
M47686	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3045989
M47686	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3406912
M47686	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2468877
M47686	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3137624
M47686	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2397435
M47686	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2095661
M47686	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2968959
M47686	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1899872
M47686	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1900794
M47686	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2171372
M47686	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1916048
M47686	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.4158693
M47686	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.40176
M47687	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.081964
M47687	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1160631
M47687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1026543
M47687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10131799
M47687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07796649
M47687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07803839
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2272618
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2137374
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0925897
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13772499
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0863117
M47687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08183825
M47687	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10676426
M47687	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1477691
M47687	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14398328
M47687	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1000867
M47687	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0854953
M47695	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19733575
M47695	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19733575
M47695	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2010554
M47695	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3105442
M47695	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.28389389
M47695	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2158441
M47695	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3028382
M47695	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2102875
M47695	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.19719868
M47695	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2121321

M47695	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19733575
M47695	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2371431
M47695	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1976291
M47695	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1987385
M47695	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26065569
M47695	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2180436
M47695	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2127629
M47695	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3152503
M47706	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1848717
M47706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3936073
M47706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1917918
M47706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3140028
M47706	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.311001
M47706	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.19576905
M47706	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25283465
M47709	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.175648
M47709	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.19264263
M47709	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1835156
M47709	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1864786
M47709	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1910188
M47709	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17749141
M47715	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09688553
M47715	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0836281
M47715	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08587517
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M47715	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0836281
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M47715	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.0825537
M47715	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0842702
M47715	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1274632
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M47715	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1582953
M47715	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.09506466
M47715	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0836281
M47715	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	-0.0836281
M47715	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0836281
M47715	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0836281
M47715	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.0870224
M47715	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.08362814
M47715	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.0881288
M47715	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1276782
M47715	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0949186

M47715	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0971277
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.087227
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1245242
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2483616
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1300506
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1179642
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M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08496281
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1132227
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0797718
M47715	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1470015
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M47715	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0825537
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M47715	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08362814
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M47715	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.079915
M47715	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0814257
M47715	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0908753
M47715	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.144782
M47715	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1405826
M47715	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0914786
M47715	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0959054
M47715	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0836281
M47715	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08619349
M47715	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0825537
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M47718	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.174495
M47718	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.20068226
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M47718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2197703
M47718	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17198751
M47718	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22741057
M47718	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.37224199
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M47718	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1653433
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M47787	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1083286
M47787	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.112764
M47787	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1045696
M47787	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.084731
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M47787	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.09699
M47787	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.0902906
M47787	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0860401
M47787	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.09992169
M47787	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.08655812
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M47787	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.088616
M47787	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0816663
M47787	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.1088845
M47787	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1003369
M47787	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0910418
M47787	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0893891
M47787	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0803767
M47787	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.07784051
M47787	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1273676
M47791	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.25045152
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M47791	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2154513
M47791	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1874996
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M47800	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08640666
M47800	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.0807986
M47800	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2579053
M47800	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2347781
M47800	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1468195
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M47800	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1543053
M47800	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.07741944
M47800	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0884063

M47800	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.13400375
M47800	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.091007
M47800	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1405183
M47806	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0902505
M47806	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.10073199
M47806	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09013338
M47806	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.10425131
M47806	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.10882909
M47806	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.07679932
M47806	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.08664332
M47806	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08032782
M47806	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08633088
M47806	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1095542
M47806	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.1143576
M47806	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.0833995
M47809	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10732789
M47809	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1029951
M47809	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0911173
M47809	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.090777
M47836	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.20895874
M47836	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2419565
M47836	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1939834
M47836	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1940894
M47898	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19007951
M47898	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.18502513
M47898	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19007951
M47898	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2536606
M47898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.258353
M47898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1729645
M47898	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35085044
M47898	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2937484
M47898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.1803834
M47898	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2470967
M47898	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17374352
M47898	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2189372
M47898	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19007951
M47898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1809676
M47905	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2423673
M47905	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2399308
M47905	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1918943
M47905	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.245613
M47905	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.19252963
M47905	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.28563038
M47905	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.24454739
M47905	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.21741315
M47905	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.20372147
M47905	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.2962388
M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.8263877
M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.6752402
M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2483155

M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.3314142
M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2718992
M47905	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.3599902
M47905	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20351794
M47905	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.4406343
M47905	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.1969016
M47905	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2586239
M47905	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2184759
M47905	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.21050035
M47905	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.21896729
M47905	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.2024276
M47905	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2804119
M47905	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2872315
M47905	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2784855
M47954	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph:	0.20565678
M47954	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.2066271
M47954	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb:	-0.199818
M47954	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.2025354
M47954	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.19075877
M47954	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.20565678
M47954	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2289345
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M47954	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1895435
M47954	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.211091
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M47954	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2389647
M47954	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2063735
M47954	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.1999371
M47954	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.199818
M47954	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	-0.199818
M47954	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22291493
M47954	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.199818
M47954	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.199818
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M47954	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.19981738
M47954	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.28736923
M47954	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2590778
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M47954	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib:	-0.2215076
M47954	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2840527
M47954	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe:	-0.2331333

M47954	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2286879
M47954	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2762922
M47954	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.199818
M47954	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2224655
M47954	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.2608666
M47954	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1913236
M47954	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2279691
M47954	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2046584
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M47954	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2046584
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M47954	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2215859
M47954	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1966708
M47954	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2651694
M47954	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2121929
M47954	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3140447
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M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2170881
M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3706548
M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1962541
M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2355188
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M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.200375
M47954	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2028487
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M47954	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2955847
M47954	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1931973
M47954	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.199818
M47954	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.19131576
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M47954	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2066416
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M47954	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.30189702
M47999	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2318125
M47999	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2200244
M47999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3519667
M47999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1656163
M47999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1994551

M47999	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.22340714
M47999	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1917715
M47999	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.186193
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M48114	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0761947
M48114	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.10821971
M48114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	0.09417256
M48114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0958382
M48114	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	-0.0800621
M48114	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	-0.1336462
M48114	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.0899695
M48114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatium	0.07879065
M48114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1183897
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M48118	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2721337
M48118	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2570478
M48118	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2836623
M48118	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2274382
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M48118	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.20581439
M48118	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.24370954
M48118	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2337136
M48141	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Pirellula	-0.0846657
M48141	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08223162
M48141	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.129334
M48141	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.08930645
M48149	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08140018
M48149	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10045858
M48149	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacter	0.12139851
M48149	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1214267
M48149	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridium	0.10064489
M48149	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacter	-0.0869619
M48149	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonella	0.0876652
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M48149	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteri	-0.0898368
M48149	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__Spirochaeta	-0.1061999
M48152	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0794445
M48152	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__Coriobacter	-0.1242828
M48152	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1298818
M48152	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.0770518
M48152	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1597262
M48152	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirae	0.07773339
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.2969259
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.2154714
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1096403
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1541115
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacter	-0.1244069
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.12693551
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacter	-0.1016116

M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1239033
M48152	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12661591
M48152	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11695676
M48152	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0873629
M48152	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0951163
M48152	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1048993
M48152	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1028054
M48152	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21574373
M48152	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0984326
M48152	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1604233
M48153	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0913897
M48153	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1324517
M48153	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.134334
M48153	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.09797883
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2674909
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1581029
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1027892
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1483672
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12007944
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1003295
M48153	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08264879
M48153	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1038906
M48153	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16063251
M48153	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09671444
M48153	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.0975508
M48153	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0859463
M48153	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1422675
M48186	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0978759
M48186	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08992601
M48186	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.0915256
M48186	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0801677
M48186	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.09022742
M48186	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.12992135
M48187	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.20940988
M48187	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2139097
M48187	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.19212174
M48187	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2262223
M48187	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17759938
M48187	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.23991534
M48187	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2262178
M48187	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2176421
M48187	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2093535
M48187	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.1937756
M48187	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.21080261
M48187	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.18851925
M48187	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.184148
M48187	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3007017
M48187	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3110173
M48187	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2253523
M48187	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.29204727

M48187	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.20931469
M48187	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.21609945
M48187	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2117939
M48187	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.19278131
M48187	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2007795
M48187	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21031643
M48187	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.20704622
M48187	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.194588
M48187	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.19278131
M48187	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20901511
M48187	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18459151
M48187	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17726474
M48187	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.31643685
M48187	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.2013103
M48187	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales.f__Opi	0.23985167
M48187	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22895634
M48187	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2916829
M48189	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0855245
M48189	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1439408
M48189	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0960477
M48189	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0811464
M48189	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08773886
M48189	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1047464
M48191	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2119949
M48191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3013864
M48191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.463619
M48191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1941066
M48191	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2634254
M48191	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1953597
M48191	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1835875
M48191	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.2302029
M48195	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.078422
M48195	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1162669
M48195	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__	0.07905253
M48195	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.08805877
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2062008
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1558815
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0835562
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0848903
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13166706
M48195	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09872113
M48195	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1520794
M48195	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17474526
M48195	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1024196
M48195	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.0941288
M48195	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1137464
M48252	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1949294
M48252	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.267685
M48252	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2219756
M48252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2072356

M48252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1996804
M48252	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.19866784
M48252	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.228505
M48252	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.23885575
M48255	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09573096
M48255	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.08267913
M48255	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08258647
M48255	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.0867316
M48255	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococ	0.10027211
M48255	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10174465
M48255	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	0.08481784
M48255	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.18808511
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1567117
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08931326
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1262996
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1499685
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.09975006
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.09249641
M48255	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.18144109
M48255	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0811247
M48255	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09175895
M48255	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.11751647
M48255	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0854919
M48255	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08237699
M48255	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08838752
M48255	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26261654
M48255	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.080391
M48255	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0991592
M48258	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.317303
M48258	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.341833
M48258	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2600721
M48258	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.42366857
M48258	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25502893
M48258	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.53908059
M48258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.53282361
M48258	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.3436574
M48258	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.48282223
M48258	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.24356213
M48258	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.77190489
M48258	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.27963076
M48258	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.3518998
M48258	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.59493712
M48258	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.51262142
M48258	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2540039
M48258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.55999161
M48258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2609989
M48258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.29200112
M48258	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.3171516
M48258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3277204
M48258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2941146

M48258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.5987486
M48258	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.3987884
M48258	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3794457
M48258	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.51464183
M48258	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.7943437
M48258	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob:	0.35615446
M48258	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23765494
M48258	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3297666
M48258	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2659802
M48258	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3235802
M48258	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.58708886
M48258	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3448073
M48258	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3833193
M48258	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3911038
M48258	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.5187352
M48258	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.44357832
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.3255007
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.31317196
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3235802
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.60576791
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.34874776
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.44357832
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.28304075
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4839122
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.33985929
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5369305
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.43448497
M48258	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3299124
M48258	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.51977299
M48258	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.7586398
M48258	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3483583
M48258	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.4466183
M48340	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0886533
M48340	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1028643
M48340	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.08944224
M48340	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10286749
M48340	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1901497
M48340	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1060631
M48340	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1790615
M48340	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0857367
M48340	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0957379
M48340	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08464458
M48340	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1139629
M48340	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10095771
M48340	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910794
M48340	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2023131
M48340	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1383654
M48428	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1021602
M48428	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07591043
M48428	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0862019

M48428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.137593
M48428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07496477
M48428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09175921
M48428	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1685907
M48428	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.09141854
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3356826
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2602811
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1489467
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1925723
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0999423
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1216036
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0892215
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0797337
M48428	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1209261
M48428	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08989761
M48428	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0870193
M48428	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21293621
M48428	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1466374
M48428	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0839413
M48428	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1491111
M48433	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0989886
M48433	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11338102
M48433	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11695184
M48433	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1043426
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1251092
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1057692
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi	-0.0935151
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.08067916
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1031445
M48433	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09115481
M48433	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0877725
M48433	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.08300014
M48433	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aerob	0.08797611
M48433	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992677
M48434	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11792667
M48434	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08507568
M48434	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	0.08695045
M48434	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.11216264
M48434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.10109661
M48434	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09362829
M48434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.09073783
M48455	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0984431
M48455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13519594
M48455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.11645215
M48455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.0930657
M48455	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10308436
M48455	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.09300303
M48455	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.0998891
M48455	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09843782
M48455	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09156517

M48455	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.15414425
M48455	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.1363402
M48455	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.13484061
M48455	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0957607
M48455	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10284854
M48455	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0921319
M48455	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.14293505
M48455	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09490056
M48455	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1165093
M48455	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09490056
M48455	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.10878285
M48569	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2114237
M48569	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2088359
M48569	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2377724
M48660	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2809063
M48660	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.23503905
M48660	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koulu	-0.2534107
M48660	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.22332672
M48660	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.246018
M48660	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2602124
M48660	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30596675
M48660	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.23074408
M48660	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.21874373
M48660	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.21717097
M48660	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29614121
M48660	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19386085
M48660	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2079225
M48660	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1938262
M48660	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19158244
M48660	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.24007889
M48660	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.2437387
M48660	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	0.20359747
M48660	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2259586
M48679	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3483813
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M48679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.3036544
M48679	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2697936
M48679	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2060753
M48679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1949697
M48679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.23356784
M48679	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.20742629
M48679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7095034
M48679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5563357
M48679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3457838
M48679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2764173
M48679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23577699
M48679	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.4136629
M48679	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2304452
M48679	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.35246
M48679	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.41663341

M48679	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2743736
M48679	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	-0.3284096
M48757	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17930286
M48773	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18886979
M48773	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2201397
M48773	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2073209
M48773	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2103163
M48773	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.17619007
M48773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.3074088
M48773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2228009
M48773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2424318
M48773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.28737276
M48773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.257596
M48773	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2148194
M48773	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1806577
M48773	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2541155
M48773	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2137521
M48773	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.24990256
M48774	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25833424
M48774	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23412609
M48774	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.4368058
M48774	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.21677827
M48774	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.25493307
M48774	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.21169897
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.6825719
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.54811
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.32596843
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.6329566
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.2261415
M48774	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.29810022
M48774	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.32250774
M48774	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3800227
M48774	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2932661
M48774	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2033954
M48774	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19902353
M48774	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2317917
M48774	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2284812
M48774	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicro	-0.3542917
M48853	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0838887
M48853	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0920209
M48853	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.152989
M48853	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1145956
M48853	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1093976
M48853	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1250442
M48853	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1112744
M48853	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.1058012
M48853	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1708652
M48853	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11482976
M48853	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1023848
M48853	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0821742

M48853	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.106874
M48853	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.09276754
M48857	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.08475226
M48857	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.08969605
M48857	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0945629
M48857	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.10700487
M48857	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.08178196
M48857	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09454647
M48857	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	0.09968662
M48857	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08830323
M48857	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__r	0.08311112
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2333287
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1505589
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1617339
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.086522
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12682834
M48857	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09272889
M48857	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.09239467
M48857	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.08980407
M48857	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08162493
M48857	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08537419
M48857	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10336859
M48857	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0864558
M48857	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09578265
M48857	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1536864
M48857	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20327519
M48857	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.09300006
M48857	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.14424476
M48857	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08273373
M48857	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09314833
M48857	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1335256
M48885	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.13633
M48885	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0935819
M48889	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1849498
M48889	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.2005531
M48889	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2212309
M48889	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.18086252
M48889	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.25697569
M48889	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1992354
M48889	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2147129
M48889	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.22610503
M48889	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.23681855
M48892	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.076735
M48892	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09636992
M48892	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10023768
M48892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.08997941
M48892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08086954
M48973	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2422526
M48973	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1965527
M48973	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.17663249

M48973	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.20050853
M48973	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f	0.1988666
M48990	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	-0.2270601
M48990	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.20443218
M48990	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1818917
M48990	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2526088
M48990	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1893989
M48990	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f	-0.2806522
M48994	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25632884
M48994	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1768082
M48994	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.20576125
M48994	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.18018703
M48994	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1847344
M48994	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2564011
M49008	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1202395
M49008	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1021436
M49008	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1073051
M49008	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0873395
M49008	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0983284
M49228	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0790442
M49228	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790442
M49228	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790442
M49228	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.0858541
M49228	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	0.07649973
M49228	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	0.11004053
M49228	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0790442
M49228	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.08158477
M49228	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.1104245
M49228	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.0779552
M49228	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0790442
M49228	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.0790442
M49228	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0783043
M49228	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08866773
M49228	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0790442
M49228	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1015829
M49228	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0790442
M49228	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0790442
M49228	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	-0.109181
M49228	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0836371
M49298	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1150319
M49298	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f	0.13870122
M49298	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0805984
M49298	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0842542
M49298	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0964404
M49298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	0.14878023
M49298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11581761
M49298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.09887129
M49298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08971674
M49298	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.13262411
M49298	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0823774

M49298	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08524505
M49298	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1245046
M49298	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f_	-0.0773188
M49298	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.08679328
M49298	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	0.08618007
M49311	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f_	-0.2519009
M49311	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.249966
M49311	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.23080107
M49311	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.21893995
M49311	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3276027
M49316	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2571825
M49316	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.206975
M49316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3870399
M49316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4849914
M49316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2215497
M49316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.27868133
M49316	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1997245
M49316	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.22091946
M49316	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.23091729
M49316	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2135313
M49316	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2439951
M49316	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31588061
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M49329	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0970845
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M49329	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	-0.0880062
M49329	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	-0.0948012
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M49329	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	0.08666582
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M49330	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1889501
M49330	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1889501
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M49330	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1797673
M49330	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.24684826
M49330	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2266434
M49330	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.24502932
M49330	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	0.19323577
M49330	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.19680304
M49330	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.32508418
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M49330	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.28961958
M49330	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1889501
M49330	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.45686014
M49330	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20261899
M49330	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2568473
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M49330	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2131317
M49330	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2622637
M49335	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.23757571
M49335	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	0.28703953
M49335	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.28339091
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M49335	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23757571
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M49335	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2697393
M49335	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.2203635
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M49335	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turiciba	-0.2143115
M49335	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.2606447
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M49335	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.40621447
M49335	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2003433
M49335	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.23757571
M49335	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.24282337
M49335	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2048401
M49335	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.25719539
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M49342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.11197306
M49342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11319771
M49342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.11125275
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M49342	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.14414382
M49342	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0846822
M49342	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08748788
M49342	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08753428
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M49342	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.13518324
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M49383	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.0850583
M49383	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08393587
M49383	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.10149663
M49383	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1169483
M49383	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.09487887
M49457	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	0.10590522
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M49457	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.08537953
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M49457	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.15217853
M49457	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09799523

M49457	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.096875
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M49459	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0889505
M49459	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1437908
M49459	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0995657
M49459	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.10177107
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M49459	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.138719
M49459	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcae	-0.0889687
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M49459	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.1803553
M49459	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1612911
M49459	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1113393
M49459	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1708759
M49459	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10314155
M49459	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0903428
M49459	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.0825989
M49459	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1041538
M49459	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1170176
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1476146
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1132901
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1347929
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16710544
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0918613
M49459	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0864954
M49459	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.08826106
M49459	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1106586
M49459	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1193536
M49459	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0823308
M49459	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0896584
M49460	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.175956
M49460	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.170251
M49460	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.18412864
M49460	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.21815688
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M49460	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.17364325
M49460	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3296418
M49460	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3373469
M49460	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.31339669
M49460	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.19790221
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M49461	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrisei	-0.1267578
M49461	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1500246
M49461	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0864294
M49461	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1771111
M49461	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1152938
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M49463	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0916586
M49463	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1125005
M49463	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10176105
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M49515	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1003816
M49529	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.079326
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M49529	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2032512
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M49529	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08929963
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M49529	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.10385
M49529	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.13235364
M49529	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0980207
M49529	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0877265
M49529	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07676429
M49529	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1137479
M49529	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0905213
M49529	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1251664
M49532	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.08986931
M49532	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	-0.1033746
M49532	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	0.09695571
M49532	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11545859
M49532	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1126949
M49534	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914684
M49534	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1047145
M49534	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1228948
M49534	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0937068
M49534	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0826846
M49534	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11106145
M49534	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.106607
M49534	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0904526
M49534	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08389626
M49534	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09740095
M49534	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.1017186
M49534	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0896708
M49534	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1029001
M49539	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0748676
M49539	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0830998
M49539	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.092121
M49539	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0758762
M49539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0894364
M49539	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0888882
M49539	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.09271142
M49539	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08422552
M49539	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.07339646
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.32359
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2680666
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1418899
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0984865
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1018003
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12676747
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1897003
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1230291

M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntroph	-0.1147942
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.091276
M49539	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.08144397
M49539	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08288553
M49539	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1795293
M49539	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.0765283
M49539	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.15624831
M49539	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1153827
M49539	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1250656
M49539	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1195204
M49542	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1786977
M49542	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0760208
M49542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.196029
M49542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0954365
M49542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.0879968
M49542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0781363
M49542	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.08856557
M49542	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1473071
M49542	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1474681
M49542	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0920377
M49542	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10890823
M49542	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1429845
M49542	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.109508
M49588	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1896428
M49588	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1708931
M49588	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.18454059
M49588	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1769479
M49588	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1637933
M49588	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3174037
M49588	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3276351
M49588	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3020986
M49588	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2421432
M49588	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.214148
M49588	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17486601
M49588	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2189839
M49588	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.16456021
M49588	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1843077
M49588	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21991185
M49588	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1947297
M49588	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2458449
M49626	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2141014
M49626	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2185018
M49626	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.23873372
M49626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3594398
M49626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3576048
M49626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2457085
M49626	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2750761
M49626	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.22659902
M49626	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23117959
M49626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2417006

M49626	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.2374121
M49626	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.28867349
M49626	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3035598
M49627	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.149493
M49627	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1186244
M49627	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09833444
M49627	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.11828995
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3099763
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1603502
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1800276
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.221283
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.0939641
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.07665996
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.1309112
M49627	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09864853
M49627	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1426747
M49627	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.132607
M49627	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1051385
M49627	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1001804
M49627	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12782545
M49627	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1937806
M49627	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1125109
M49630	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1789938
M49630	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1861819
M49630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2481935
M49630	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.233701
M49630	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.21959285
M49630	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.18248416
M49630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2706497
M49630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.22794045
M49630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2848093
M49630	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2438446
M49630	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3328201
M49630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.184927
M49630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1875364
M49630	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32256226
M49630	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2100986
M49630	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2558786
M49631	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.19748043
M49631	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2247166
M49631	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2140049
M49631	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25240919
M49631	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1805122
M49631	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.2100011
M49632	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4091346
M49632	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2697932
M49632	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.202246
M49632	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.2912099
M49632	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1809697
M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3554794

M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4045006
M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2358073
M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1817027
M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2455758
M49632	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1837592
M49632	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2228421
M49632	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2841311
M49632	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.241596
M49634	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0738627
M49634	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09420007
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M49634	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.07778632
M49634	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0921598
M49634	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09847346
M49634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2814227
M49634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2530684
M49634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.116009
M49634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.16416946
M49634	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1162917
M49634	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10240794
M49634	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1862497
M49634	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09193365
M49634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.14032954
M49634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1016216
M49634	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0915339
M49634	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0871967
M49635	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10785276
M49635	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.12342568
M49635	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09385774
M49635	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13750645
M49636	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1048223
M49636	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09539884
M49636	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10410034
M49636	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0790226
M49636	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.0784078
M49636	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.0854622
M49636	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1593034
M49636	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.166809
M49636	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14637431
M49636	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0982591
M49636	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.08611367
M49636	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1324369
M49636	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.10115606
M49636	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1136175
M49636	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.08575201
M49636	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0828696
M49636	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09009733
M49636	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0812481
M49636	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08009458
M49636	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.10909649

M49636	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1026637
M49636	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.100513
M49645	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.082318
M49645	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1197722
M49645	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1231548
M49645	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.07514445
M49645	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1538238
M49645	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10911894
M49645	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococ	0.09098886
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3123623
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2077397
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1188413
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1318599
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.1546004
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0928742
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0847661
M49645	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09013315
M49645	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09579727
M49645	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0850911
M49645	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1416803
M49645	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1574681
M49645	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21906344
M49645	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07498055
M49645	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1066566
M49645	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0931947
M49645	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1777735
M49646	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08486289
M49646	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.078614
M49646	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	0.11522187
M49646	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.1161173
M49646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.20336623
M49646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.17033972
M49646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.16815064
M49646	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10916016
M49646	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0888332
M49646	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.07898308
M49646	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.09795743
M49646	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	0.10141964
M49646	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.14994537
M49647	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08750746
M49647	family	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales.f__I	0.08840348
M49647	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.08905806
M49647	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.08568603
M49650	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2164076
M49650	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.281529
M49650	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2450749
M49650	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2394097
M49650	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2221583
M49650	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.22593681
M49650	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2344503

M49650	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2277218
M49650	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.2557648
M49650	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.2476322
M49650	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2312361
M49650	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2563145
M49650	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2721002
M49650	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2863109
M49650	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3171472
M49650	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2667244
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M49650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2985922
M49650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2721002
M49650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2414767
M49650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2359782
M49650	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2332264
M49650	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2582271
M49651	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1110073
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M49651	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococ	-0.0961103
M49651	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.08074325
M49651	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0858728
M49651	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptos	0.10161737
M49651	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0841389
M49651	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0848633
M49651	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1001211
M49651	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1223494
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M49651	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0768229
M49663	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.11072257
M49663	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0923225
M49663	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0950661
M49663	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.10145012
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M49665	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2006947
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M49665	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	-0.2284713
M49665	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.26809167
M49665	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	0.23767378
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M49665	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.19171825
M49665	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.2342627
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M49675	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1140116
M49675	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0968653
M49675	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.153864
M49679	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.18580338
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M49679	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.25068094
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M49679	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.19173432
M49679	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.23858963
M49679	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f	0.21175055
M49681	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	0.08596147
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M49681	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.11653451
M49681	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.118161
M49681	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08211588
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M49681	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.1029393
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M49834	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1324294
M49834	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.084884
M49834	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1478383

M49834	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08334766
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M49834	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13124517
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M49883	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.21434323
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M49883	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.22733266
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M49883	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.22733266
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M49883	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.22733266
M49883	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.25053792
M49883	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.27796459
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M52052	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10023076
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M52056	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.098037
M52056	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.09525183
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M52056	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0900517
M52056	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0855314
M52056	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1041255
M52056	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0796627
M52056	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.1358228
M52056	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.07977177
M52106	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.10079491
M52106	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.09374192
M52106	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08647432
M52106	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1022416
M52106	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0962803
M52106	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930876

M52106	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13152892
M52206	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.1744031
M52206	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0868703
M52206	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875058
M52206	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1267098
M52206	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1816733
M52206	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.091883
M52206	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.1249415
M52206	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09115004
M52206	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0910854
M52206	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1005604
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1723768
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.1423658
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.0813194
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.08344213
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0876369
M52206	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.09017584
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0821624
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2640827
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.185553
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1152748
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1411275
M52206	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14105422
M52206	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1885965
M52206	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0859157
M52206	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.145786
M52206	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.086138
M52206	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1255329
M52206	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1162918
M52206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0945674
M52206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1353187
M52206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15048956
M52206	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0950056
M52206	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1617605
M52206	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1815266
M52206	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1144408
M52233	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09375183
M52233	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12926324
M52233	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1008815
M52233	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1139821
M52233	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13181106
M52233	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	0.10732863
M52233	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	0.14244909
M52233	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0869147
M52233	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.14111958
M52233	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1117428
M52233	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.103551
M52233	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.09529237
M52233	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.12126255
M52234	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1860497

M52234	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f_	0.2860797
M52234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.2209163
M52234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2068732
M52234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.269316
M52234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2148994
M52234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2007186
M52234	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.22555646
M52234	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.2333661
M52234	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.3090895
M52234	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35020557
M52234	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.1718567
M52234	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.30530391
M52234	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.21919806
M52234	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2007466
M52234	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococci	-0.2114224
M52234	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2755442
M52234	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.3384659
M52234	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2556764
M52234	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.2323038
M52234	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	-0.1757172
M52234	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.2849666
M52234	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.2408861
M52234	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.211402
M52234	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.1773384
M52234	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2260454
M52234	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.2218349
M52234	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales	0.31595863
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.3239204
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2413806
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.2109269
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	-0.3082876
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.21197453
M52234	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.20906332
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	-0.263876
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.2218349
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobiales	0.22526447
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.21197453
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.2591532
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.20024405
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.1747841
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.3390881
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	0.30252629
M52234	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.2937121
M52234	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.4214781
M52234	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinococcus	-0.2524669
M52238	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0907466
M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.2514502
M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.1768919
M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0848667
M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1057684

M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0902882
M52238	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.0949219
M52238	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.1157121
M52238	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.14813144
M52238	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09673854
M52238	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09216891
M52238	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0902942
M52238	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1461633
M52243	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1258623
M52243	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1006985
M52243	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1206173
M52243	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1406617
M52243	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0844548
M52243	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0868935
M52243	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0887578
M52243	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1206607
M52245	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17380853
M52245	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1807283
M52245	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.1986852
M52245	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.20969902
M52245	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17294311
M52245	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1714686
M52245	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.199684
M52247	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08444522
M52247	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0848539
M52247	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.f	0.1114191
M52247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.1059719
M52247	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	0.12262207
M52247	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.09220878
M52247	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08884808
M52248	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1388948
M52248	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1322165
M52248	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.08344599
M52248	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.09850771
M52248	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0843779
M52248	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.08831791
M52249	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.16749452
M52249	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2785231
M52251	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.18830232
M52251	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.19139882
M52251	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1944251
M52251	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.226154
M52251	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2449583
M52251	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.212315
M52251	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2045112
M52251	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2507456
M52251	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.20786
M52251	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2148952
M52251	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2149445
M52252	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2102224

M52252	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.20683717
M52252	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.25054099
M52252	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.23756282
M52252	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.3722697
M52252	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2316637
M52252	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1992864
M52252	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2066889
M52252	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.27040754
M52252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2069516
M52252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2226531
M52252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2116481
M52252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.27195807
M52252	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2531611
M52252	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2234108
M52257	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0924583
M52257	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0876673
M52257	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846461
M52257	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1085068
M52257	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.0852378
M52257	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.09290575
M52257	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1154756
M52257	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.0858548
M52257	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Chrise	-0.2868046
M52257	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1168369
M52257	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1633373
M52257	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1037143
M52257	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1390475
M52257	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1617166
M52257	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0950897
M52257	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.079991
M52257	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1287088
M52257	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0955277
M52257	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0945343
M52257	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0956077
M52257	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1478557
M52257	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceae	-0.0882304
M52257	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09338177
M52257	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1662127
M52257	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1128056
M52257	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.093908
M52267	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.22006112
M52267	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.208217
M52267	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.1908777
M52267	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1949163
M52267	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.20328516
M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2716698
M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.22006112
M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930747
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M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2012535

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M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2092564
M52267	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1930747
M52267	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.3752957
M52267	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.1908777
M52267	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.1930747
M52267	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.1930747
M52267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2108623
M52267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2108529
M52267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.2864566
M52267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3626427
M52267	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1987096
M52267	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1908777
M52267	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.1908777
M52267	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.1908777
M52267	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__I	0.20047296
M52267	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.1908777
M52267	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__A	-0.2016369
M52267	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.19087768
M52267	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.17405255
M52267	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.19514428
M52267	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.1836077
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.1944939
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5789608
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2681089
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2578939
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.344944
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.3379027
M52267	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.1908777
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M52267	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.1930747
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M52267	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1908777
M52267	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1779214
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M52267	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3178378
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M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.19087768
M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1908777
M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2118566
M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1908777
M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.207583

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M52267	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1930747
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M52267	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2502443
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M52267	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1992027
M52267	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2623706
M52267	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1900974
M52267	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1871114
M52267	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.1922593
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M52267	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3525928
M52268	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0907238
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M52268	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08734181
M52268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2645193
M52268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1975939
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M52268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.0959526
M52268	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13415926
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M52268	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.11598522
M52268	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10840926
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M52268	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1086628
M52268	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.123715
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M52271	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	0.22447705
M52271	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.18715627
M52271	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24794601
M52271	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24497048
M52271	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22990784
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M52271	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.23414392
M52273	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.24676506
M52273	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2558263
M52273	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.34045495
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M52273	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.22815163
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M52273	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2291612
M52273	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.33963699
M52273	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22504654
M52273	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.2774631
M52273	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.43230632
M52273	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcae	-0.2930666
M52273	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.21180485
M52273	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.33905983
M52273	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.34802259
M52273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.20354117
M52273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.25022002
M52273	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20496991
M52273	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.29106395
M52273	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2964468
M52273	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.30417391
M52273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3060295
M52273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22491259
M52273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1972354
M52273	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.30417391
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M52273	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.35749962
M52273	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.266511
M52273	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22798554
M52273	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.36956287
M52276	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.07753195
M52276	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.09805634
M52276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1573221
M52276	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09826242
M52276	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.13319328
M52276	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1020235
M52276	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.08993012
M52276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.21780377
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M52276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.13882747
M52276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	0.17430644
M52276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.08393625
M52276	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.17809549
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M52276	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.08438425
M52276	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.08209858
M52276	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07845086
M52276	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08486202
M52276	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.09226291
M52276	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0848119
M52276	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f	0.13377651
M52276	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.17158108

M52278	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.122389
M52278	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillales.f__	-0.0961968
M52278	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.2487994
M52278	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium.f__	-0.1354294
M52278	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0838129
M52278	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales.f__	-0.1535721
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M52278	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.08122375
M52278	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1434558
M52278	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales.f__	-0.0807144
M52278	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales.f__	-0.1671466
M52278	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.16193177
M52278	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistales.f__	-0.112287
M52278	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.0969403
M52281	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1077024
M52281	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	-0.0965053
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M52281	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1010559
M52281	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.09981921
M52281	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__	0.08797904
M52281	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.f__	0.0993904
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M52281	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldicoxylales.f__	-0.0768709
M52281	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales.f__	-0.2218343
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M52281	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1076062
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M52281	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__	0.10293497
M52281	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcaceae.f__	0.07568444
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M52281	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	-0.1062377
M52281	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__	0.18617409
M52281	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales.f__	0.08434509
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M52281	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales.f__	-0.1185503
M52282	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales.f__	0.08556859
M52282	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	0.11330861
M52282	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidales.f__	0.09579991
M52282	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres.f__	0.08942168
M52282	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.f__	0.0870181
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M52282	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium.f__	-0.0904614
M52282	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae.f__	0.10087857
M52282	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	0.08480977
M52282	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__	0.12050668
M52282	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__	0.07841234

M52282	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08849683
M52282	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.08849683
M52282	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.07954325
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M52285	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0846418
M52285	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1051767
M52285	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.0786551
M52285	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.12045767
M52285	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	-0.0886845
M52285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1040382
M52285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.093873
M52285	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0834382
M52285	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	-0.0923366
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M52285	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0831071
M52285	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.08330965
M52285	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0873089
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M52286	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3213558
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M52286	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2261864
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M52286	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__!	-0.2261864
M52286	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.2261864
M52286	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.30913217
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M52286	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.22385932
M52286	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.1957725
M52286	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.2185557
M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2021518
M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2071535
M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.5154195

M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4283248
M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.4047663
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M52286	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.2261864
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M52286	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.2680818
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M52289	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2839494
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M52289	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2523365
M52289	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19332755
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M52294	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08382099
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M52294	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1042772
M52294	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.116269
M52294	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.083731
M52294	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1101677
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M52307	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09040815
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M52307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1373542
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M52307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.129185
M52307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1130944
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M52307	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0782832
M52307	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.t	-0.081073
M52307	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1349652
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M52315	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	0.31160698
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M52315	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	-0.2794836
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M52315	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.32013042
M52315	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.29281021
M52315	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opitutales	0.31125857
M52340	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Methanohalobium	-0.0868254
M52340	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1009937
M52340	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0901408
M52340	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	-0.0887002
M52340	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	-0.1209184
M52340	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistia	-0.1022758
M52340	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Cerasicoccales	-0.1205876
M52413	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0769389
M52413	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__Gaiellales	0.09094048
M52413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	0.08015478
M52413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	0.0899095
M52413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	0.1241192
M52413	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroid	0.13223408
M52413	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagales	0.10797451
M52413	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.08572945
M52413	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.13546165
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.1734398
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacter	-0.1122234
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.0781284
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospirales	0.08504362
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.0759333
M52413	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillonellales	0.13997353
M52413	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.09480728
M52413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.0965203
M52413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.07933563
M52413	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.07839192
M52413	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales	0.11501192
M52413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	0.12514977
M52413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanitiales	0.08027081
M52413	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13526822
M52413	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__Brachyspirales	0.0979936
M52413	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasmatales	-0.0861071

M52413	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae.f__	-0.0785287
M52434	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2158687
M52434	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2551367
M52434	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2330844
M52434	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.27535443
M52434	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.26738774
M52434	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.2187138
M52434	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20984064
M52434	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1805453
M52434	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.19025916
M52434	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.37303488
M52434	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.2141352
M52434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2457866
M52434	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.2229472
M52434	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.27249778
M52434	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.18511583
M52434	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.23447507
M52434	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2166846
M52434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24175943
M52434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2096353
M52434	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.34116099
M52434	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2249821
M52434	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1799024
M52434	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.26932741
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2426933
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.21193929
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.26932741
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2718717
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.21114986
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2744641
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.3038918
M52434	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.1900326
M52434	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.25835098
M52434	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.28530776
M52450	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2106836
M52450	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1898553
M52450	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.1950419
M52450	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.21500241
M52450	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.19996573
M52450	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24064608
M52450	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2788461
M52453	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1057679
M52453	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11641421
M52453	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.0905436
M52461	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0997081
M52461	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09965237
M52461	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.10028663
M52461	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.0809247
M52461	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.10005433
M52461	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.10481985

M52462	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.26054753
M52462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4153166
M52462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3331833
M52462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.5127473
M52462	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4592375
M52462	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	0.58276419
M52462	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.23433315
M52462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.70675831
M52462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.25953937
M52462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2634984
M52462	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2308357
M52462	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.48655191
M52462	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.23767437
M52462	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.37909205
M52462	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__f	0.2455818
M52462	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.3819024
M52462	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.2365506
M52462	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.47297072
M52462	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.53941552
M52462	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.353256
M52462	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.40052515
M52462	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2701436
M52462	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.40239269
M52462	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.3691797
M52462	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2282301
M52462	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.26163821
M52462	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.65085283
M52462	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycet	-0.551205
M52462	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.19750072
M52462	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.31849882
M52462	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2402768
M52462	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2373253
M52462	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.73148721
M52462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2743811
M52462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.5368007
M52462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.4940352
M52462	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.43694777
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2883627
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.2274152
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2373253
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.54818199
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.29446023
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2049193
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.43694777
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.2164042
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4202149
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2125628
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.35935554
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2107274
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5785431

M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.54433232
M52462	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.4194463
M52462	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.38884002
M52462	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.47960645
M52462	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.6459438
M52462	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3916845
M52462	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.23192353
M52473	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08589584
M52473	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.0923933
M52473	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0878508
M52473	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.08944927
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08589584
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0909291
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089381
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0870791
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878508
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0878508
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0893472
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M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0913618
M52473	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.089381
M52473	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.0923933
M52473	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.089381
M52473	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.089381
M52473	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1116248
M52473	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1151118
M52473	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0994317
M52473	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0923933
M52473	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	-0.0923933
M52473	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.0923933
M52473	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.09170111
M52473	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.0923933
M52473	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.1019348
M52473	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.0878508
M52473	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.09239326
M52473	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.	0.09956766
M52473	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0934056
M52473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.0956573
M52473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0870236
M52473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.0923933
M52473	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobactera	-0.0878508
M52473	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0878508
M52473	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.089381
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.089381
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.089381
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0858608
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0882397

M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0934423
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0923933
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.09114297
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0923933
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0936074
M52473	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0847934
M52473	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.095308
M52473	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0817981
M52473	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.094475
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.09239326
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0923933
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0866094
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1089237
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0846474
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.082579
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0923933
M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0821513
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M52473	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08589584
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M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0801126
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M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0878508
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1390174
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0993383
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0878508
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0836693
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0839544
M52473	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0919137
M52473	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0878508
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M52473	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.089381
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M52603	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.28261066
M52603	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.6225001
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M52608	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2285082
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M52608	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1276395
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M52608	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1792544
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M52625	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.1784992
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M52625	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17019516
M52633	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18890331
M52633	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1626792
M52633	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.17718848
M52633	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.16348315
M52633	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.253759
M52634	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.08919717
M52634	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.08558578
M52634	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.0966235
M52634	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0838319
M52634	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.11554534
M52634	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.13385646
M52634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0914606
M52634	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.09766712
M52634	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08428096
M52637	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08424688
M52637	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12622143
M52637	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.07940665
M52637	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.09245025
M52637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1091842
M52637	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1067731
M52637	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.0928578
M52639	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12561198
M52639	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0764648
M52639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1356158
M52639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.0909905
M52639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1300782
M52639	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__s	-0.1075586
M52639	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	-0.0954034
M52639	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.09544379
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0849183
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3253727
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.262826
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1652748
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1363504
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1016732
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1575402
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1520703
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.0865497
M52639	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1054
M52639	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1114756

M52639	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro:	-0.1023234
M52639	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo:	-0.0788494
M52639	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo:	-0.1015383
M52639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror:	-0.0984708
M52639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc:	0.16514648
M52639	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot:	-0.1018898
M52639	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De:	-0.0811844
M52639	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy:	-0.1513096
M52639	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1438779
M52639	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco:	-0.1275855
M52641	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria:	-0.1876061
M52641	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1881451
M52641	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli:	-0.1769125
M52641	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno:	0.1692202
M52641	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptosi:	-0.1652591
M52641	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	0.1781996
M52641	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro:	0.19759825
M52641	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci:	0.19906139
M52641	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc:	0.17722703
M52641	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.22980924
M52641	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	0.1822807
M52642	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta:	0.08773526
M52642	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.1528703
M52642	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1777578
M52642	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea:	0.15358635
M52642	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08130373
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe:	-0.3066574
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo:	-0.2920089
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1182034
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte:	-0.1593505
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno:	0.17054085
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba:	-0.1527631
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc:	-0.1065367
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere:	0.08874318
M52642	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon:	0.13071372
M52642	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.15161424
M52642	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc:	-0.084726
M52642	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria:	0.08760397
M52642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter:	-0.0819666
M52642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste:	0.1757745
M52642	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc:	0.1115553
M52642	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco:	-0.17679
M52655	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta:	-0.093346
M52655	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.12506655
M52655	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.1195875
M52655	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.08700397
M52655	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact:	-0.0961583
M52655	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe:	0.10744826
M52655	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.08450829
M52655	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba:	0.0888979

M52655	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.14274236
M52655	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.09185988
M52655	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__	0.09381346
M52655	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0819199
M52661	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.26197237
M52661	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.3317108
M52661	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.25678519
M52661	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29656033
M52661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.47104632
M52661	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2129329
M52766	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2244658
M52766	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2926713
M52766	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.25323504
M52766	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2220711
M52766	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.21239629
M52766	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2055099
M52766	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.25368939
M52772	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11260756
M52772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09614992
M52772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.07824671
M52772	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.11706414
M52772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1058429
M52772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.0961231
M52772	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.09875446
M52772	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	-0.0858077
M52772	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1274247
M52773	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.26207316
M52773	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.18021547
M52773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4416193
M52773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4031139
M52773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2451622
M52773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.313744
M52773	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2248305
M52773	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.20127509
M52773	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3290775
M52773	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19384979
M52773	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23097689
M52773	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19535381
M52773	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2268009
M52773	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2599018
M52782	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0790453
M52782	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10176363
M52782	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.0994521
M52782	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.11157385
M52782	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1376908
M52782	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1977539
M52782	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1467844
M52782	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.07697443
M52782	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07150032
M52782	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08573247

M52782	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0929579
M52782	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.07554409
M52782	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0811858
M52791	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10704604
M52791	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1146402
M52791	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08051202
M52791	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1357169
M52791	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1941359
M52791	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13600122
M52791	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.0870823
M52791	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10864248
M52791	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.14903689
M52791	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13516723
M52791	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08315223
M52791	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.07958789
M52791	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11997205
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M52791	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0856745
M52833	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09719356
M52833	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09958796
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M52833	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	0.10626939
M52833	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10543077
M52833	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0812512
M52833	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0984594
M52833	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08963882
M52833	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09425696
M52833	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	0.08232744
M52850	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1017732
M52850	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.096256
M52850	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.0901048
M52850	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.1051815
M52850	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0919015
M52850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.11948059
M52850	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0946246
M52850	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1366962
M52867	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.28924278
M52867	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.2091467
M52867	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3684564
M52867	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.24796147
M52867	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.3078604
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.8692228
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2004398
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.225421
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2783161
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.2845969
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-1.0601652
M52867	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.1890314
M52867	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3841177
M52867	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2832738

M52867	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1930847
M52867	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.1909462
M52867	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2496521
M52867	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.21091026
M52867	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3691616
M52871	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.2115195
M52871	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3544339
M52879	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.179595
M52879	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1729375
M52879	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2167861
M52925	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.23884545
M52925	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.1659547
M52925	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20021193
M52925	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.21409206
M52938	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1196268
M52938	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0949864
M52938	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0974503
M52938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.15792799
M52938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	0.09104419
M52938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.11297483
M52938	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0978843
M52938	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	-0.0947136
M52938	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	0.10631519
M52938	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	0.1228971
M52938	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.11272229
M52938	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.13077394
M52969	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.2581738
M52969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.30333918
M52969	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.2415108
M52969	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.24002633
M52969	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f	0.18030952
M52969	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.1827556
M52969	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkhold	-0.1886401
M52970	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29142609
M52970	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.20250238
M52970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.242158
M52970	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.1951539
M52975	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2117439
M52975	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__	0.30378915
M52975	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24213643
M52975	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.2151153
M52975	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.2257449
M52975	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.2302147
M52975	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.23412233
M52975	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2286232
M52987	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.194826
M52987	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2363481
M52987	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.2245599
M52987	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.3098667
M52987	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.17171571

M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.7477047
M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4583534
M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.4350652
M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.3202027
M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.23437326
M52987	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.305578
M52987	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.3733811
M52987	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2755165
M52987	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.37527554
M52987	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19356367
M52987	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.262498
M52987	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.2834286
M52987	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3380335
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M53010	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.23363287
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M53010	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2222451
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M53010	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroso	0.62430788
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M53010	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.44724872
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M53010	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.47946919

M53010	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.37967722
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M53010	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3901843
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M53010	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.5243617
M53010	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2258488
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M53023	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10405727
M53023	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.0925911
M53023	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobac	0.10044676
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M53023	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.09351933
M53023	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0891784
M53023	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09211351
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M53086	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2717246
M53086	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.29810097
M53086	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.4297987
M53086	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23414215
M53086	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.23714033
M53086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.6547219
M53086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.7921155
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M53086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.2854466
M53086	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.45070307
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M53086	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3136038
M53086	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24316889
M53086	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2415378
M53086	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2237487
M53086	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	0.30600405
M53086	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.5100045
M53106	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1420082
M53106	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1124991
M53106	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1445967
M53106	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08264675
M53106	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	0.10197812
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christel	-0.3302788
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1137267
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2413798
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.138416
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1688116
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.14683911
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1093161
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0779467

M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.1336
M53106	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11811425
M53106	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.09066941
M53106	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1043339
M53106	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08112672
M53106	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1381127
M53106	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17807661
M53106	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09336945
M53106	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.0989737
M53106	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	-0.0854066
M53106	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1898262
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M53110	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	0.19893798
M53110	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2247804
M53111	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.082298
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M53111	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1768459
M53111	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1992609
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M53111	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.0859192
M53111	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1199397
M53111	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15070307
M53111	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1254889
M53111	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1679617
M53114	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1038172
M53114	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.0770294
M53114	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1323182
M53114	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1652777
M53114	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0858029
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M53114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3565323
M53114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2565882
M53114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.1344735
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M53114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.076268
M53114	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.14275357
M53114	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.11675066
M53114	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1052794
M53114	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0860032
M53114	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0814031
M53114	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0934373
M53114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1136039

M53114	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1116072
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M53114	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.0818469
M53114	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1065764
M53114	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitiales.f__Opi	-0.0922847
M53114	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2056118
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M53121	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3783228
M53121	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2792546
M53121	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2582621
M53121	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2914011
M53121	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23300565
M53121	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2368964
M53121	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2125676
M53121	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2142689
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M53125	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.115
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M53125	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.0895273
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M53125	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.1076437
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M53125	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1076437
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M53125	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1358908
M53125	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	-0.0963867
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1533542
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M53125	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0953506
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09483266
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0988693
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0988693
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0751792
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1139693
M53125	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1278866
M53127	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08399755
M53127	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	-0.0925025
M53127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.12343922
M53127	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.13000624
M53127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.09285759
M53127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.11186984
M53127	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.11578488
M53127	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10542734
M53127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09942812
M53127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1563435
M53127	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.12275053
M53156	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18600017
M53156	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.22979465
M53156	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1955036

M53156	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1910648
M53156	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.22807891
M53156	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2039752
M53156	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.18633354
M53156	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.22845969
M53156	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	-0.1773884
M53158	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.10260239
M53158	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10640568
M53158	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.09044138
M53158	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.0971438
M53158	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__r	0.13545644
M53158	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.09234878
M53158	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	0.08788845
M53158	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.09445274
M53158	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christei	-0.1478975
M53158	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1072856
M53158	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1250047
M53158	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.10549384
M53158	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.11639963
M53158	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08963248
M53158	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10487417
M53158	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10039604
M53158	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.08461563
M53158	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08081278
M53158	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10639291
M53158	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.08461563
M53158	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.08272982
M53158	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08770408
M53158	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.08296348
M53158	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.09886037
M53158	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.10194593
M53158	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.0999627
M53163	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.2605462
M53163	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.2313157
M53163	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2106702
M53165	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2013159
M53165	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.1841005
M53165	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.1751949
M53165	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2204721
M53165	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1896206
M53165	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.18749681
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1797731
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1913462
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2204721
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2204721
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1745985
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17345136
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1711376
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2091009
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1788775

M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1751949
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18759381
M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.192313
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M53165	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2688656
M53165	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2735287
M53165	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.188811
M53165	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.1751949
M53165	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	-0.1797731
M53165	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadetes	-0.1797731
M53165	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1860157
M53165	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2012124
M53165	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1633492
M53165	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2309564
M53165	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.2037691
M53165	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1751949
M53165	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.1674422
M53165	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__Saprospirae	-0.1751949
M53165	family	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Parachlamydia	-0.1751949
M53165	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.1751949
M53165	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaerolineales	-0.1843675
M53165	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2204721
M53165	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales.f__Nostocophycideae	0.17519437
M53165	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales.f__Fibrobacteres	0.17627583
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.1730926
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae	-0.2231144
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae	-0.2161442
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae	-0.1750859
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leuconostocaceae	-0.191475
M53165	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae	-0.1747092
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidimicrobiales	-0.1707822
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Calditerrivores	-0.2033142
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellales	-0.4173813
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridiales	-0.2171834
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacteriales	-0.3247594
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2684511
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacteriales	-0.2137893
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilibacteriales	-0.2016855
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogibacteriales	-0.2653813
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcales	-0.182793
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcales	-0.3851556
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.2325909
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrophomonadales	-0.349752
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissierellales	-0.1654575
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Armatimonadetes	-0.1751949
M53165	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.2204721
M53165	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__Erysipelotrichi	-0.2199036
M53165	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.2204721
M53165	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.1669824
M53165	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitrospira	-0.2018888

M53165	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.1797731
M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1797731
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M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2219473
M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1986076
M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1751949
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M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1863456
M53165	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2136522
M53165	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1967195
M53165	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1797507
M53165	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1785718
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M53165	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1895184
M53165	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.18940014
M53165	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1797731
M53165	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.17104318
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1816563
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M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2204721
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2213789
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2204721
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.179691
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18503813
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1658526
M53165	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1994592
M53165	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2204721
M53165	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	-0.2164788
M53165	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1751949
M53165	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.18784805
M53165	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1797731
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M53165	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1892822
M53165	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2529146
M53172	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19856062
M53172	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2493112
M53172	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.262552
M53172	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	-0.2077208
M53172	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2256545
M53172	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	-0.1778234
M53172	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	0.25399192
M53172	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.19856062
M53172	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079457
M53172	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2256545

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M53172	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1951726
M53172	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2079457
M53172	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2077208
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M53172	family	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2079457
M53172	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2030418
M53172	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.1700201
M53172	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.2216829
M53172	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2077208
M53172	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	-0.2077208
M53172	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	-0.2077208
M53172	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	0.17989496
M53172	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	-0.2077208
M53172	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__	-0.2003536
M53172	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031.f__A4b	-0.2256545
M53172	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.19581205
M53172	family	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.20772111
M53172	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1682971
M53172	family	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.19813944
M53172	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.1973617
M53172	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococca	-0.2094463
M53172	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococ	-0.2089789
M53172	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnoba	-0.215394
M53172	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	-0.262928
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Acidam	-0.2079131
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.2076096
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3118736
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.3289187
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.3972837
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1835231
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.1717868
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.2297105
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.3451372
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales.f__Ar	-0.2077208
M53172	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2256545
M53172	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.2059628
M53172	family	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2256545
M53172	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.2597252
M53172	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	-0.1996692
M53172	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2079457
M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2079457
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M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2106504
M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2339907

M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2077208
M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.18044706
M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2077208
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M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1874189
M53172	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.2358884
M53172	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1829666
M53172	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2105694
M53172	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1908314
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.20772111
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.2077208
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2478489
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2077208
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.2345866
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.27519692
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.19856062
M53172	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2079457
M53172	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.24796195
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2212414
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2083056
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2256545
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.190799
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2256545
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2167076
M53172	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1774123
M53172	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2256545
M53172	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2183999
M53172	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2968275
M53172	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.190542
M53172	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.3477859
M53172	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2077208
M53172	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.25302927
M53172	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2079457
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M53176	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31184031
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M53176	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.20951036
M53176	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__B	0.21489421
M53176	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.21549549
M53176	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25856511
M53176	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2426307
M53176	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.22626258
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.30157661
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.33690456
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillace	0.20711525
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococce	0.24630584
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.18766726
M53176	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	0.26001914

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M53176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	0.19893843
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M53176	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.20803713
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M53176	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319.	0.20340511
M53176	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.34979686
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M53176	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.38835221
M53176	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2559218
M53176	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.21936649
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M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2170459
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.40828226
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20860108
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.21936649
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19067035
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.19585843
M53176	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.304568
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M53176	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.30208961
M53176	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.2422411
M53176	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2049818
M53214	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph:	0.17572024
M53214	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17572024
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M53214	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2925206
M53214	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(-0.1861782
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M53214	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3481936
M53214	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2063829
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M53214	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2203187
M53214	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319.	-0.1787412
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M53214	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.17572024
M53214	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1814354
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M53214	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.217637
M53214	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales.f__	-0.1713132
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M53215	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.0889444
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M53215	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.106797
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2382394
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.1465378
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2102243
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1093236
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M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1156055
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.1500878
M53215	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.157057
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M53215	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0829294
M53215	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08919331
M53215	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.079605
M53215	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2539238
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M53229	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1750024
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M53229	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1991531
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M53229	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.2365405
M53229	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1995409
M53229	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1869092
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M53229	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1993718
M53229	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.2193014
M53229	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales.f__	0.18797828
M53229	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.1811769
M53229	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2003523
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M53230	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__C	-0.3702717
M53230	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.2215265
M53230	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.255322
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.6194584
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.5016671
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.357049
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.2948061
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2184875
M53230	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.197832
M53230	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.28217535
M53230	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.3858228
M53230	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2018031

M53230	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2230174
M53230	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1978605
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M53230	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2636859
M53230	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5009651
M53231	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09397642
M53231	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1054594
M53231	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.109288
M53231	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.1020225
M53231	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae	-0.0823781
M53231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2164531
M53231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2147306
M53231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.1387797
M53231	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntrop	-0.0848836
M53231	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1139383
M53231	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0817925
M53231	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1484176
M53231	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__	-0.1007704
M53231	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0984374
M53232	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.242992
M53232	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	-0.281198
M53232	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25859491
M53232	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4076707
M53232	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.35858098
M53232	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales.f__	-0.2515427
M53232	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2515568
M53232	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	-0.2334117
M53232	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	-0.3933716
M53232	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3064338
M53232	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3549361
M53232	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.611536
M53232	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	-0.2720985
M53232	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2651876
M53232	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39935446
M53232	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.221534
M53232	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2956738
M53232	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.22358766
M53232	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2951117
M53232	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2730581
M53232	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitroson	-0.3101147
M53232	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.24782736
M53232	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.26172104
M53232	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.4316832
M53232	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.4316832
M53232	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.2524291
M53232	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.26166616
M53232	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.3896236
M53232	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	-0.458478
M53232	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.27509966
M53232	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	0.22511929

M53232	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2531256
M53232	family	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41.f__RF	-0.2736574
M53234	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.166269
M53234	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.1788545
M53237	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1240961
M53237	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09669203
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2241771
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1630173
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.0842426
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1067563
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.13130802
M53237	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.0901261
M53237	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0834316
M53237	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2160867
M53237	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17365238
M53237	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.1192803
M53237	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1140183
M54676	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.08685637
M54676	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	0.12594495
M54676	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.12150057
M54676	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales.	0.08996102
M54676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellacea	-0.1426369
M54676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1121352
M54676	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.1048178
M54676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.12323833
M54676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	0.0901199
M54676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0970109
M54676	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptoc	-0.0903194
M54676	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.0863256
M54676	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08375417
M54676	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09374344
M54676	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.082605
M54676	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2578519
M54676	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.14829104
M54687	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__(	-0.0846164
M54687	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.1018567
M54687	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.08571273
M54687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.10273429
M54687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.1436917
M54687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.08313519
M54687	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicib	-0.0947249
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.2430464
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2523733
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubact	-0.1076475
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.12998648
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.1012944
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	-0.0851992
M54687	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.10116408
M54687	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	0.10330159
M54687	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1009801

M54687	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13454256
M54687	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1913213
M54701	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2668985
M54704	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12848945
M54704	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1309153
M54704	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1495396
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.3712644
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostridia	-0.1749825
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.3274076
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.114368
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacterium	-0.1727139
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachnospiraceae	0.12950472
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M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptococcus	-0.1693606
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcus	-0.0997747
M54704	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.1363649
M54704	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__Victivallales	-0.1227955
M54704	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	-0.0915242
M54704	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	-0.0954567
M54704	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistia	-0.0987051
M54704	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Opitutae	-0.1501134
M54704	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1214525
M54705	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2022986
M54705	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.1856681
M54705	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum	-0.1830345
M54705	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.2016917
M54705	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.21322822
M54723	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.08148904
M54723	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.14477886
M54723	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	0.08301611
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M54723	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibacterales	-0.1014168
M54723	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptostreptococcus	-0.0870396
M54723	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.11186614
M54723	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculum	0.14750158
M54723	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1019976
M54723	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales.f__Opitutae	0.09542357
M54831	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0829317
M54831	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidia	-0.1129669
M54831	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales.f__Gemellaceae	0.12292071
M54831	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcus	0.09273827
M54831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christensenellaceae	-0.1383828
M54831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalobacterium	-0.1038427
M54831	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminococcus	-0.0948818
M54831	family	k__Bacteria.p__Fusobacteriia.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriales	0.17105118
M54831	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.0828924
M54831	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriaceae	0.07744414
M54831	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16110293
M54831	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.09146378
M54832	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0776884

M54832	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.1000168
M54832	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0792802
M54832	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.0878008
M54832	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Caldico	-0.0780603
M54832	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0980894
M54832	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09305184
M54834	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0862915
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M54834	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.08938099
M54834	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.1423904
M54834	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.1109581
M54834	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.16784287
M54834	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.07776022
M54834	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17833653
M54834	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08522631
M54837	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	0.23635494
M54837	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4041129
M54837	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2361817
M54837	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	0.20678307
M54837	family	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales.f__	-0.1999972
M54837	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.19055673
M54837	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2037048
M54838	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.3200961
M54838	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1911455
M54838	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2262905
M54838	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1965722
M54838	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__	-0.2460813
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.4503065
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Clostric	-0.2862596
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.4709111
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__EtOH8	-0.2287953
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Eubacte	-0.4252236
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Mogiba	-0.2119365
M54838	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Syntro	-0.2389056
M54838	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f__	-0.3272613
M54838	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1997562
M54838	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20705776
M54838	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33354128
M54838	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Sy	-0.2012588
M54839	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1042743
M54839	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846036
M54839	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.11196195
M54839	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	-0.1271493
M54839	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__	0.09900958
M54839	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enteroc	-0.0871221
M54839	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	-0.1066764
M54839	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales.f__Turicibi	-0.1218061
M54839	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.13001226

M54839	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Lachno	-0.0892087
M54839	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	-0.1280231
M54839	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f	-0.1450989
M54839	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0904479
M54839	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.126375
M54839	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1156361
M54839	family	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__De	-0.0835078
M54841	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.0908906
M54841	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	0.09374303
M54841	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__F	-0.0913465
M54841	family	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08608495
M54841	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Leucono	0.10117654
M54841	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	0.13117691
M54841	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	0.10542081
M54841	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Ruminc	0.10674834
M54841	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.f	0.08031242
M54841	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.08799199
M54841	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08725265
M54841	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0952111
M54857	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	-0.0810262
M54857	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	0.13824496
M54857	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.10515094
M54857	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	0.08554403
M54857	family	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08248631
M54857	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.13001718
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M54857	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.08831432
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M54857	family	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0844292
M54857	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.08554403
M54857	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	0.08554403
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M54859	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1009277
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M54883	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	0.12153469
M54883	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__Nitro	0.10917338
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M54883	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0820766
M54883	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09046148

M54883	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.07998608
M54883	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.07918411
M54883	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.092207
M54883	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	0.09227943
M54883	family	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__	-0.1118362
M54883	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes.f__Opi	0.1289702
M54883	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.08063911
M54883	family	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.11087996
M54883	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.09545047
M54887	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.314609
M54887	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.293199
M54887	family	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2.f__Meth	-0.2941238
M54887	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.38073193
M54887	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.314609
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M54887	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.3864243
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M54887	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.4033785
M54887	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2906193
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M54887	family	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.35063875
M54887	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.75213459
M54887	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	0.32326652
M54887	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__I	-0.3664979
M54887	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__S	-0.2779995
M54887	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.72917945
M54887	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30943151
M54887	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.76774425
M54887	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__I	0.44980145
M54887	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__	-0.4061893
M54887	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Koul	0.63720943
M54887	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.55543081
M54887	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.57331332
M54887	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae	0.46916809
M54887	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcace	-0.4764703
M54887	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterocc	0.29341861
M54887	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptoc	0.55127952
M54887	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Gracilib	-0.4285745
M54887	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Peptost	0.3600005
M54887	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__SBYG_4	-0.3658822
M54887	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.28789245
M54887	family	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.76261617
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M54887	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3202928
M54887	family	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3190788
M54887	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2690919
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M54887	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.3840338
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M54887	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.37793875
M54887	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.9099204
M54887	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.4348433
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M54887	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.34959418
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M54891	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.17393348
M54891	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1735938
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M54891	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1760825
M54891	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.219674
M54891	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2048486
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M54892	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2370659
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M54892	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christe	-0.3788025
M54892	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.209024
M54892	family	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales.i	-0.1881058
M54892	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1925427
M54892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2321358
M54892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2832657
M54892	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19026678
M54892	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3128574
M54893	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2317889

M54893	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales.f__	-0.2239036
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M54893	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Christense	-0.2240463
M54893	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Tissiere	-0.1812763
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M54893	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales.f__	0.31022907
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M54897	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouli	0.57899727
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M54897	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Dehalo	-0.2637823
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M54897	family	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales.f__0319	0.27334662
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M54897	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24954784
M54897	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3294272
M54897	family	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.72818665
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3881946
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.5156304
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.286399
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.4924139
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.45555352
M54897	family	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.267836

M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.3665445
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.34589638
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3294272
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.62740667
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.38556855
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.45555352
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.26374123
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.4500526
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.39944853
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5782112
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.57989936
M54897	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3087207
M54897	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.44488526
M54897	family	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales.f__	0.35872566
M54897	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.3766139
M54897	family	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales.f__Opi	-0.2482627
M54897	family	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.26726529
M54897	family	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2363149
M54898	family	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2615362
M54898	family	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2582926
M54898	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.29598399
M54898	family	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__	0.27360482
M54898	family	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.27516975
M54898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.29216071
M54898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.304649
M54898	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2593712
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M54899	family	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2657528
M54899	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__RB4	0.26403094
M54899	family	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15.f__mb	0.22009295
M54899	family	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41.f__El	0.19715618
M54899	family	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales.f__	-0.1812933
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M54899	family	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21178901
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M54899	family	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__f	0.18839934

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M54899	family	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__C	0.35695002
M54899	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22009295
M54899	family	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.37946829
M54899	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.30308769
M54899	family	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales.f__S	0.22009295
M54899	family	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales.f__Par	0.22009295
M54899	family	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales.f__I	-0.2388243
M54899	family	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31.f__S47	0.22009295
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M54899	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.19944211
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M54899	family	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacilla	0.34134036
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M54899	family	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales.f__Veillon	0.25530413
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M54899	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.31957507
M54899	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.3390111

M54899	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.28579359
M54899	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.23294278
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M54899	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.26504183
M54899	family	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales.f__	0.32750936
M54899	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.226164
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M54901	family	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales.f__Kouk	0.31292905
M54901	family	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.22359786
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M54901	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2875271
M54901	family	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.31352755
M54901	family	k__Bacteria.p__TM7.c__TM7.3.o__I025.f__Rs.045	-0.3010729
M54901	family	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales.f__Deinoc	-0.2417184
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M00053	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09512212
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M00053	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.135151
M00053	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0945114
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M00053	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1432361
M00053	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.093165
M00053	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1114613
M00053	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.144194
M00054	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1091817
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M00054	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2078684
M00054	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1091903
M00054	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0975934
M00054	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13635862
M00054	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1058449
M00054	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0784676
M00054	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0855881
M00054	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1778501
M00054	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1625976
M00054	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1019984
M00055	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11279205
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M00055	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1109178
M00056	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.14278898
M00056	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.090252
M00056	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.09285617
M00056	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12463627
M00056	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.0919553
M00056	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1181257
M00056	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1214815
M00057	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1164967
M00057	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10847453
M00057	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09083516
M00057	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1355645
M00057	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.081518
M00057	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1422814
M00057	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08898679
M00057	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.102211
M00057	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0796991
M00057	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0834374
M00058	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0812688
M00058	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13313142
M00058	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1271907
M00058	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0920068
M00058	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1021073
M00058	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11286082
M00058	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0869546
M00058	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0920855
M00058	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0960264

M00059	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0750333
M00059	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07991941
M00059	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.08679403
M00059	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08929421
M00059	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.13433561
M00059	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08845599
M00059	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1672629
M00059	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1201343
M00059	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.098156
M00059	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12374727
M00059	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1057102
M00059	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0912328
M00059	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1292992
M00059	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1360438
M00059	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1263775
M00059	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1072974
M00060	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0987222
M00060	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13061158
M00060	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.0842698
M00060	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1371335
M00060	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0925868
M00060	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1097455
M00060	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12207092
M00060	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1152904
M00060	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.077296
M00060	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1138085
M00060	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1108715
M00063	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0755867
M00063	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.1031877
M00063	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11006277
M00063	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09268731
M00063	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.10502315
M00063	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08089341
M00063	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.0902072
M00063	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09531396
M00063	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0790796
M00064	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.102534
M00064	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12728544
M00064	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08148522
M00064	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1476612
M00064	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0927962
M00064	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1017463
M00064	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13802239
M00064	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1103849
M00064	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.077916
M00064	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1117327
M00064	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.11297
M00396	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08880784
M00396	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1729042
M00396	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1426889

M00396	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.0841949
M00396	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0928659
M00396	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.084362
M00396	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.1119332
M00396	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0928659
M00396	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.09851931
M00396	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0928659
M00396	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0913487
M00396	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0928659
M00396	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0973856
M00396	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.1008241
M00396	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.09389258
M00396	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0913508
M00396	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0995048
M00396	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0794682
M00396	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0841949
M00396	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.10979817
M00396	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.0891309
M00396	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1005622
M00396	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08583044
M00396	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09135989
M00396	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.0880757
M00396	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0913548
M00396	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08901202
M00396	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1019669
M00396	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0913548
M00396	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1299884
M00396	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	-0.0811696
M00396	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__GMD14	-0.0894473
M00396	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nostocales	0.093926
M00396	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.144208
M00396	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.0869613
M00396	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0928659
M00396	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0946414
M00396	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0913548
M00396	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.0826758
M00396	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0809529
M00396	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.09574326
M00396	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.113396
M00396	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.090119
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0913498
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0913548
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	-0.0753931
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0902893
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.09135989
M00396	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.0928659
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacterales	0.0956708
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09815396
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0831519
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1046791

M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09409929
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0788223
M00396	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.102298
M00396	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0841949
M00396	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2175576
M00396	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1183541
M00396	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2636531
M00396	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1039284
M00396	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2022142
M00396	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0963514
M00396	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1106472
M00396	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0872341
M00437	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.248726
M00437	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.19827886
M00437	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.19146891
M00437	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycet	0.32474888
M00437	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2224596
M00437	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32210877
M00437	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2500924
M00437	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2106051
M00437	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2458522
M00437	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.3046694
M00443	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0819709
M00443	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.0903817
M00443	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.07577408
M00443	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.082347
M00443	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1016532
M00443	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08954473
M00443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0846965
M00443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08435045
M00443	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0847405
M00485	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0824241
M00485	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.17182663
M00485	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0880599
M00485	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08005567
M00485	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11487055
M00485	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08298832
M00485	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.143328
M00485	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.088466
M00485	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1129013
M00512	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09588553
M00512	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08808132
M00512	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11355609
M00512	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.20536727
M00512	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1170471
M00512	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1106175
M00512	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2185376
M00512	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15418031
M00512	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1373993
M00512	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1464946

M00512	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1186426
M00513	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0818997
M00513	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1114077
M00513	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08627203
M00513	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09779735
M00513	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.08611309
M00513	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0870003
M00513	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.0779794
M00513	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.09864229
M00513	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.08324563
M00513	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.082324
M00513	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0867197
M00514	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1540152
M00514	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0887713
M00514	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0986433
M00514	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales	0.08538206
M00514	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0858672
M00514	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.094222
M00514	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2063172
M00514	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.2732987
M00514	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1321334
M00514	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1546599
M00527	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0810532
M00527	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09294005
M00527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.11664944
M00527	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.100949
M00527	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.096581
M00528	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09274955
M00528	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07723603
M00528	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales	0.08581912
M00531	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.09838049
M00531	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11711447
M00531	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07741233
M00531	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09043755
M00531	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.104236
M00531	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.08153093
M00531	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.08756227
M00531	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	0.08838128
M00531	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0892973
M00531	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.15056739
M00531	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0839259
M00531	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1043148
M00533	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1942155
M00533	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacteriales	0.26844667
M00533	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.196288
M00533	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2557212
M00533	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.2037229
M00533	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.29541423
M00533	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1911582
M00533	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1851023

M00533	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2091629
M00533	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3070379
M00533	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1822191
M00533	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1987252
M00533	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.17190635
M00533	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1780828
M00533	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.24902643
M00533	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1816343
M00533	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2486584
M00533	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.20313101
M00533	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2598934
M00533	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.317601
M00533	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.21698491
M00533	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2109366
M00533	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2832601
M00533	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.1938509
M00533	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.217938
M00533	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1897289
M00533	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1976736
M00537	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0944684
M00537	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0823759
M00537	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.085603
M00537	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2156233
M00537	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0885874
M00537	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0880348
M00537	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1003773
M00537	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0906374
M00537	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1441962
M00541	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12841839
M00541	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.14710049
M00541	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1127274
M00541	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.0967631
M00541	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.1023469
M00541	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10723799
M00541	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1094413
M00541	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0987976
M00541	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1369778
M00542	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.1267261
M00542	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.09390051
M00542	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.102101
M00542	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.11638723
M00542	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G6	0.15266245
M00542	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1282601
M00542	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.1090061
M00542	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.12339934
M00542	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.1332732
M00542	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.13588277
M00542	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.14809705
M00542	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1090631
M00542	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1205007

M00542	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.0916989
M00554	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08276468
M00554	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.136281
M00554	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1142083
M00554	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.120402
M00554	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.15849717
M00554	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18847109
M00554	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.08781881
M00554	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.07979859
M00554	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1368692
M00554	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.078829
M00554	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.17359244
M00555	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08708217
M00555	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1045023
M00555	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0992503
M00555	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.09514137
M00555	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1049432
M00555	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0928618
M00555	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10402163
M00555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13879085
M00555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0991436
M00555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0892908
M00555	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.10607081
M00566	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10087349
M00566	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0818911
M00566	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0904301
M00568	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10886398
M00568	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1010774
M00568	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0909602
M00568	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1106401
M00568	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09326205
M00568	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2962611
M00568	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.09553759
M00568	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.09482528
M00568	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	0.20936147
M00569	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09392115
M00569	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.11533593
M00573	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1060085
M00573	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1110974
M00573	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0874947
M00573	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1048052
M00573	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2379844
M00573	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21649459
M00573	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1682956
M00573	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1010462
M00573	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	-0.1665574
M00575	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.08114517
M00575	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11185908
M00575	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.07920445
M00575	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07912093

M00575	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09073391
M00575	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.08989954
M00575	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.09995571
M00575	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09397697
M00575	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.0896153
M00575	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.08768338
M00575	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.10364204
M00575	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1181478
M00575	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16689132
M00575	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0956649
M00575	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1180412
M00587	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.12356837
M00587	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09280344
M00587	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1672547
M00587	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.0893766
M00594	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08190584
M00594	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1022931
M00594	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.0844885
M00594	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0913722
M00594	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1407912
M00594	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0793145
M00594	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1291057
M00594	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1033737
M00594	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.09163736
M00594	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1009669
M00594	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0997802
M00594	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11365251
M00594	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1537105
M00594	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1353384
M00594	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1114346
M00594	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0799889
M00594	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.078635
M00598	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.0787156
M00598	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0925268
M00598	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.0976595
M00598	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1271008
M00598	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0807748
M00598	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.0943492
M00598	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.094795
M00598	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1137024
M00598	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1356887
M00598	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0790052
M00598	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.09573
M00598	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0942986
M00598	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0864915
M00598	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0811511
M00598	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0966835
M00598	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2257002
M00598	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0936906
M00598	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0922788

M00598	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.0878003
M00598	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerae	-0.0807781
M00598	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthoniobacteriales	-0.1030446
M00601	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0907896
M00601	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1158679
M00601	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0899687
M00601	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1	-0.0911771
M00601	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.08737
M00601	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0945206
M00604	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1325657
M00604	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.0921152
M00604	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1067179
M00604	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1247756
M00604	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2580709
M00604	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1007729
M00604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0847739
M00604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1000543
M00604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.0845614
M00604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1029247
M00604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1302296
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.0901516
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1147062
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0992863
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.0878663
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.09231158
M00604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.1004104
M00604	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1329541
M00604	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0852024
M00604	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1337263
M00604	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1946629
M00604	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.0977613
M00604	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthoniobacteriales	-0.0938667
M00604	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0819903
M00605	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0916991
M00605	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.129452
M00605	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1307625
M00605	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0872813
M00605	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1043638
M00605	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0856204
M00605	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1043286
M00605	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1401182
M00605	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1135378
M00605	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0928712
M00605	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.081192
M00605	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0916438
M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.1007206
M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.0951445
M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1506347
M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0837146
M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.20790373

M00605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0919328
M00605	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1481969
M00605	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.100048
M00605	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1336885
M00605	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1133908
M00606	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	-0.0967194
M00606	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0941642
M00606	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1265688
M00606	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1061035
M00606	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0805125
M00606	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0758713
M00606	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1264091
M00606	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.07980372
M00606	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1192606
M00606	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0787429
M00606	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0796148
M00606	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0756895
M00606	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1544456
M00606	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.08222
M00606	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17915799
M00606	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1127243
M00606	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1290235
M00606	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1251265
M00606	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1257121
M00607	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.09561168
M00607	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.10438466
M00607	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0852774
M00607	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1138671
M00607	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08343816
M00607	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.0914335
M00607	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0848832
M00607	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1396682
M00607	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1150969
M00607	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.108631
M00608	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	0.11033785
M00608	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.08624514
M00608	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10755005
M00608	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0814002
M00608	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09957514
M00608	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08045002
M00608	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10475415
M00608	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.1101101
M00608	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09544066
M00608	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25166102
M00608	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08923354
M00608	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.13399327
M00608	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.14540881
M00608	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.17093461
M01105	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07758901
M01105	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobæ	-0.0944226

M01105	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0981105
M01105	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0765532
M01105	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.08956
M01105	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0765532
M01105	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0765532
M01105	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0831662
M01105	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0759759
M01105	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0765532
M01105	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1447576
M01105	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.0993749
M01105	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0964726
M01105	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.075967
M01105	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0842386
M01105	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0940962
M01105	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0920175
M01105	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.15286676
M01105	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07595588
M01105	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales	-0.1050712
M01105	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0933323
M01105	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.092651
M01105	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0759637
M01105	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0759637
M01105	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0850939
M01105	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.07565909
M01105	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.0853176
M01105	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.0955363
M01105	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.0955363
M01105	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0765532
M01105	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.107383
M01105	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0982375
M01105	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0759637
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.094432
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0856473
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1201896
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.0986687
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0806304
M01105	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.0804658
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0949385
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0818846
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0759715
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0759637
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0836288
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.07595588
M01105	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.0765532
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.1054385
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1292825
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	-0.0955363
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.0935454
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.08472923
M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiobacteriales	-0.0780058

M01105	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.103787
M01105	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0811644
M01105	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.08073244
M01105	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0908237
M01105	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0977537
M01105	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0977707
M01105	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1492978
M01107	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.26213364
M01107	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2306468
M01110	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0849174
M01110	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12308998
M01110	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09244969
M01110	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10222244
M01110	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08243386
M01110	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07418578
M01110	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1951687
M01110	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1143168
M01110	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1704966
M01114	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.093634
M01114	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08826531
M01114	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1971278
M01114	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0879919
M01114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1393457
M01114	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1223856
M01114	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1364002
M01114	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.1609609
M01118	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0991306
M01118	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.09000458
M01118	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.09988369
M01121	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0965077
M01121	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1023314
M01121	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0968718
M01121	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.12538137
M01121	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0836688
M01121	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0898332
M01121	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1012482
M01121	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08741894
M01121	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0891042
M01123	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	0.09130891
M01123	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0966417
M01123	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0967969
M01123	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08927698
M01123	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2063732
M01123	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.0915131
M01123	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0785717
M01123	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0787661
M01123	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0882207
M01123	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08603297
M01123	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1120274
M01123	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0824958

M01123	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1105913
M01123	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_N:	0.08039072
M01123	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0838545
M01123	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0854539
M01123	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0810239
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.094616
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0839103
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0845315
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09246035
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0796727
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0909859
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08124455
M01123	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0822987
M01123	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucor	-0.1040879
M01124	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_RB41	-0.0916195
M01124	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	0.08532766
M01124	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.088975
M01124	order	k_Bacteria.p_Chlamydiae.c_Chlamydiia.o_Chlamydiales	-0.0977103
M01124	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.0840134
M01124	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	0.09225022
M01124	order	k_Bacteria.p_Nitrospirae.c_Nitrospira.o_Nitrospirales	-0.0846625
M01124	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales	-0.1155352
M01124	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1217577
M01124	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0880996
M01124	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0813773
M01124	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1018381
M01124	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.l.84	-0.0824869
M01124	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.087473
M01124	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0928974
M01124	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18241531
M01124	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0818486
M01124	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1165194
M01124	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.0839465
M01124	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_HA64	-0.0920736
M01124	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	-0.0983192
M01124	order	k_Bacteria.p_Verrucomicrobia.c_Spartobacteria.o_Chthonioba	-0.0852719
M01124	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucor	-0.0856836
M01125	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.0936355
M01125	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.13266223
M01125	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	-0.0861223
M01125	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1291227
M01125	order	k_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0855084
M01125	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.111927
M01125	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11368147
M01125	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1128827
M01125	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.089337
M01125	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasiococcales	-0.0986256
M01126	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.0887979
M01126	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.0949231
M01126	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.13042427

M01126	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.076686
M01126	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1232892
M01126	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0762716
M01126	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0815384
M01126	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1013657
M01126	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15401372
M01126	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0828145
M01126	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0959637
M01126	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0878765
M01126	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.085727
M01128	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09748324
M01128	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.1009743
M01128	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0976498
M01128	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0962004
M01128	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.102579
M01128	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0874465
M01128	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1006449
M01128	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08385935
M01128	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.09156361
M01284	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1085105
M01284	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0953921
M01284	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07723237
M01284	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08075065
M01284	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09035713
M01284	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0897724
M01284	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.157336
M01284	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0927439
M01284	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0823069
M01284	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10191302
M01284	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.079194
M01284	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0851322
M01284	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1017568
M01284	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1016967
M01284	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1021518
M01284	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0961097
M01284	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1076256
M01284	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1329074
M01284	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0790299
M01299	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0801449
M01299	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12025955
M01299	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08174634
M01299	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1351523
M01299	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08135581
M01299	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1265632
M01299	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1374303
M01299	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0970031
M01299	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0870856
M01299	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1430351
M01299	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1445694
M01301	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1019053

M01301	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11969704
M01301	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1787476
M01301	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0920894
M01301	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1723447
M01301	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13210683
M01301	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1552838
M01301	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0971172
M01301	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1429932
M01301	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1563715
M01301	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.145254
M01302	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0875396
M01302	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0798414
M01302	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11981245
M01302	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1513538
M01302	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.097254
M01302	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1073557
M01302	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13522081
M01302	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.112168
M01302	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0813185
M01302	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1162973
M01302	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1198043
M01302	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0901828
M01303	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1191146
M01303	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1630164
M01303	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12293844
M01303	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.0986773
M01303	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.105469
M01303	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09579727
M01303	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13395684
M01336	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08160091
M01336	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1220013
M01336	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0801088
M01356	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09232731
M01356	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0905737
M01356	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0824679
M01356	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.12004973
M01356	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.10590314
M01358	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1286923
M01358	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10353811
M01358	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.092644
M01361	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.35672113
M01361	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.27787607
M01361	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2287345
M01361	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2616886
M01361	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2128999
M01361	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.2137763
M01361	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.2291878
M01361	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.2143569
M01361	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.2019673
M01361	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2841021

M01361	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.2300505
M01361	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2390543
M01361	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.294486
M01361	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.48989058
M01361	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2865386
M01361	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.29704103
M01361	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.26796188
M01361	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.218009
M01361	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.38662693
M01361	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.35374516
M01365	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1046001
M01365	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09000879
M01365	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.08662509
M01365	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09008992
M01365	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1310343
M01408	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.243958
M01408	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2449864
M01408	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3689338
M01408	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.187634
M01408	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33702272
M01408	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3261733
M01408	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2455635
M01411	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.11439544
M01411	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1087608
M01411	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.086386
M01411	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1145949
M01411	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0886155
M01411	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0950974
M01411	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0880335
M01411	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0844218
M01411	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0996153
M01412	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08096643
M01412	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.10766
M01412	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0875307
M01412	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.09016731
M01412	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0878605
M01412	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08073861
M01412	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0973028
M01412	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1094867
M01412	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.10327948
M01412	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0787515
M01412	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0868904
M01412	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0976012
M01412	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0885605
M01412	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1105636
M01412	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0943956
M01412	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.1010848
M01413	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2764933
M01413	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3361889
M01413	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2888698

M01413	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.2220808
M01413	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.2261158
M01413	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.348845
M01413	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.39812137
M01413	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.3237703
M01413	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.2911888
M01416	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.08984108
M01416	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.12202952
M01416	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Neisseria	0.10762895
M01416	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfol	-0.0882412
M01416	order	k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Camp	0.08825184
M01416	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chloro	-0.1033909
M01416	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.14127527
M01417	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.1100628
M01417	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1315884
M01417	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomycetes	0.10338351
M01417	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_RF32	-0.091928
M01417	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodospirillum	0.0968965
M01417	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chloro	-0.0868973
M01417	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enterobacteriaceae	-0.0833778
M01417	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pasteurellales	0.1436601
M01417	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1215645
M01417	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.202356
M01417	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.1423934
M01417	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.101557
M01418	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.19439045
M01418	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.2135104
M01418	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.2154275
M01418	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.3212137
M01437	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.1122286
M01437	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales	-0.0961164
M01437	order	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales	-0.0973775
M01437	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.14319372
M01437	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.08825522
M01437	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodospirillum	-0.0852516
M01437	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pasteurellales	0.12048972
M01437	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1005934
M01444	order	k_Archaea.p_Crenarchaeota.c_Thaumarchaeota.o_Nitrososphaerales	0.07720789
M01444	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_CCU21	-0.0815324
M01444	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Gaiellales	-0.084321
M01444	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	-0.088814
M01444	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Chlorophyta	-0.0832976
M01444	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	0.08194666
M01444	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacteres	-0.0941051
M01444	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_FAC88	-0.0964563
M01444	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.1061376
M01444	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1074995
M01444	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.2360951
M01444	order	k_Bacteria.p_Planctomycetes.c_OM190.o_agg27	-0.0978441
M01444	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_Phycisphaerales	-0.0978441

M01444	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0846496
M01444	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1781555
M01444	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.1029168
M01444	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0989502
M01444	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0775396
M01444	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0978441
M01444	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1919406
M01444	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.07629961
M01444	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1611483
M01444	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2967629
M01444	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1943761
M01444	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0846284
M01471	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.247336
M01471	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.3210327
M01471	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2580224
M01471	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2930986
M01471	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.2609059
M01471	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.31648419
M01471	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.2562122
M01483	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.11099451
M01483	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1365793
M01483	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0909362
M01483	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1311191
M01483	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.090112
M01483	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1132565
M01493	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1033956
M01493	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0951506
M01493	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0948119
M01493	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.11995321
M01493	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10330178
M01493	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2072817
M01493	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1168102
M01493	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0853
M01493	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1028825
M01493	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1077855
M01493	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0987444
M01493	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0890561
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1027082
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1334737
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0870916
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0813401
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15426755
M01493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1080356
M01493	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1381305
M01493	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1545534
M01493	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1538708
M01493	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.140117
M01493	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0975001
M01493	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1780838
M01494	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0782735

M01494	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0984572
M01495	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10463492
M01495	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1075686
M01495	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.12623957
M01495	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.0918246
M01495	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.10168015
M01495	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.20015599
M01495	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.10054436
M01495	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.1467891
M01496	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.349529
M01496	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.3997667
M01496	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.423554
M01496	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.4154144
M01496	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.4322874
M01496	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.4508474
M01496	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.6412979
M01496	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.2802016
M01496	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.3011068
M01496	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2692922
M01496	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.4076986
M01496	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.4076986
M01496	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.3760304
M01496	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.39495117
M01496	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.28306654
M01496	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2876344
M01496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.3262233
M01496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__GallioneI	0.28531042
M01496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo|	0.41527181
M01496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.4934175
M01496	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.3090607
M01496	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.32565139
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.29525246
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.3219913
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.32217551
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.3168998
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.4076986
M01496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.51784364
M01496	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.514673
M01496	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.4166924
M01496	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.4999116
M01496	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.38560623
M01496	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.31957958
M01496	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.3668771
M01496	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.37266136
M01496	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.36103921
M01498	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.090914
M01498	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0833516
M01498	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13597299
M01498	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0831025
M01498	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.098539

M01498	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1330646
M01498	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15084709
M01498	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1477904
M01498	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1520185
M01498	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1613082
M01498	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1135915
M01498	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1713622
M01500	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2355306
M01500	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.2323662
M01500	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.26278726
M01500	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.4091494
M01504	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.092156
M01504	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.156469
M01504	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11720485
M01504	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08292919
M01504	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1039331
M01504	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1633523
M01504	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.22802833
M01504	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1169366
M01504	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1139653
M01504	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1296409
M01504	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1931793
M01505	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0831598
M01505	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.0952774
M01505	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0858266
M01505	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0893544
M01505	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.09052284
M01505	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0823355
M01505	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.101901
M01505	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0793954
M01505	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.1067443
M01505	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13010548
M01505	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0915263
M01505	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1011301
M01508	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1837798
M01508	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12758532
M01508	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.089626
M01508	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0985578
M01508	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1068368
M01508	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0774645
M01508	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1840679
M01508	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.21835117
M01508	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1541043
M01508	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0917272
M01508	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1520469
M01508	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1063581
M01508	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.207798
M01510	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11899036
M01510	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.09875705
M01510	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09700133

M01510	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14700912
M01510	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0753081
M01510	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.111769
M01510	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09956246
M01510	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0963193
M01510	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0867161
M01510	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1379591
M01512	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1076279
M01512	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.144719
M01512	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.11399385
M01512	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.11836411
M01512	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0855423
M01512	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1014068
M01512	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1319705
M01512	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0928569
M01512	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.0995385
M01512	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.08540502
M01512	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.0867034
M01512	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococcales	-0.0897813
M01512	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.1139093
M01512	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2263562
M01512	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0996671
M01512	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1300851
M01515	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	-0.3244621
M01515	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.2320945
M01515	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.2620104
M01515	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.31176228
M01515	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.35114511
M01516	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1753281
M01516	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.25974874
M01516	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.18009117
M01519	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.16345651
M01519	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	-0.1633052
M01527	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0974281
M01527	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.106024
M01527	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1948301
M01527	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.07946061
M01527	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1207175
M01527	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0822588
M01527	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Elliselliales	-0.0914466
M01527	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	-0.0954345
M01527	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1127127
M01527	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0999838
M01527	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0987848
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.1068574
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1837315
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.08463716
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1006294
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0766084
M01527	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.26247884

M01527	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1774367
M01527	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.101508
M01527	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1273992
M01527	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1381673
M01552	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1389659
M01552	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	-0.0977567
M01552	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.120923
M01553	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.16443694
M01553	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.09829673
M01553	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.171787
M01553	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1381581
M01553	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.08398873
M01553	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.0825961
M01553	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.10806236
M01553	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.19833945
M01553	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.09894022
M01553	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.10601532
M01553	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.09912972
M01553	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.08367319
M01553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.14033676
M01553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.11380622
M01553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.09307502
M01553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.1422195
M01553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.09771757
M01553	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0824462
M01553	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.12006027
M01553	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.13166941
M01553	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.08376893
M01553	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.08936
M01553	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.15596457
M01553	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.10991514
M01553	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthoniobacterales	0.10122755
M01556	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.2300326
M01556	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	-0.2735585
M01556	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.1902434
M01556	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1928876
M01556	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1992118
M01556	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.182999
M01556	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.17660021
M01556	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2250798
M01556	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2111535
M01556	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2023606
M01556	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1826178
M01556	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2111203
M01556	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2199352
M01558	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.08515967
M01558	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0792016
M01558	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0736007
M01558	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0736007
M01558	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08277067

M01558	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0736007
M01558	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0975218
M01558	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0763883
M01558	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0736007
M01558	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.10122654
M01558	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0950868
M01558	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.0788077
M01558	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0763864
M01558	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0814555
M01558	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0888836
M01558	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08122312
M01558	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07638693
M01558	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0763871
M01558	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08484904
M01558	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09527774
M01558	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08036802
M01558	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0763871
M01558	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.111842
M01558	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:0	0.08001725
M01558	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.11989
M01558	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0736007
M01558	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0899072
M01558	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0763871
M01558	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.0931819
M01558	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.07534637
M01558	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.0829527
M01558	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.074962
M01558	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0992483
M01558	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0763874
M01558	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0763871
M01558	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.07638693
M01558	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.0736007
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacteriales	0.07534061
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.0744248
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0892942
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.08075976
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0898278
M01558	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13973337
M01558	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0959662
M01558	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.07767044
M01558	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1342051
M01558	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1778579
M01558	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.2233505
M01561	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0822397
M01561	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0945607
M01561	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.0851863
M01561	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.1193549
M01561	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.08584
M01561	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.09440714
M01561	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.08985644

M01563	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.24458768
M01563	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2913037
M01563	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.23026657
M01563	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2228855
M01563	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2435508
M01563	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2532597
M01563	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.2334789
M01563	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.28413963
M01563	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36919662
M01563	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2321667
M01563	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.259045
M01563	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.247007
M01564	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0913656
M01564	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0870549
M01564	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.11021125
M01564	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08966115
M01564	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.09515164
M01564	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0871659
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M01564	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.10480207
M01564	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.11011275
M01564	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.09079312
M01566	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23271329
M01566	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.18927173
M01566	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1669166
M01566	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	0.18771691
M01566	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2098402
M01566	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1658142
M01566	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2387569
M01566	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.2037504
M01566	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2953138
M01566	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1833505
M01572	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.089274
M01572	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1374117
M01572	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0772625
M01572	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11705063
M01572	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.07737306
M01572	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08862744
M01572	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1751525
M01572	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26879864
M01572	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1220222
M01572	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1318086
M01573	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.07995824
M01573	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2200813
M01573	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0890573
M01573	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.077785
M01573	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08875273
M01573	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0904888
M01573	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0906225
M01573	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1056679

M01573	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.09070785
M01573	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0799633
M01573	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.095828
M01573	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11389789
M01573	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0786156
M01573	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.112206
M01574	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2869753
M01574	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.1766385
M01574	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2022452
M01574	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2051613
M01574	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2958564
M01574	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2296952
M01574	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.272652
M01574	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4356393
M01574	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1931062
M01576	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2012804
M01576	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.18224873
M01576	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1875136
M01576	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29585394
M01576	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1785744
M01576	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2500108
M01576	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2111852
M01584	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.19350188
M01584	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2149736
M01584	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2646079
M01584	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19656486
M01584	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1848343
M01584	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2944724
M01584	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17496821
M01584	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.20571347
M01584	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2226324
M01584	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.22754687
M01584	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2249282
M01584	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2820892
M01584	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.200797
M01584	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.25826103
M01584	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.31865
M01584	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.2769999
M01584	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.2223572
M01584	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.2539168
M01584	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.27481722
M01584	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.28859293
M01584	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.26746843
M01585	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1018011
M01585	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.08334274
M01585	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09208239
M01585	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0762913
M01585	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08670593
M01585	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1332163
M01585	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0891799

M01585	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1106281
M01585	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10707925
M01585	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1381844
M01585	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.157925
M01585	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1429503
M01586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0907578
M01587	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1244076
M01587	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.102383
M01587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0990042
M01587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10842889
M01587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08997418
M01587	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1049536
M01587	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1113754
M01587	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1136188
M01587	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1088901
M01587	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11177166
M01587	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0861697
M01587	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1163653
M01589	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1263907
M01589	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1045266
M01589	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1015407
M01589	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13205429
M01589	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08049839
M01589	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1200996
M01589	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1402311
M01589	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0789513
M01589	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0838071
M01589	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1013306
M01589	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1169279
M01589	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0966922
M01589	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0836053
M01589	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18300961
M01589	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0841447
M01589	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1043291
M01589	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.129056
M01589	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1380194
M01589	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0912262
M01591	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0883472
M01591	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12856552
M01591	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08153782
M01591	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1100197
M01591	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0974891
M01591	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13629313
M01594	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1498647
M01594	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1149308
M01594	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.102858
M01594	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0878131
M01594	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1104119
M01594	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1085231
M01594	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0976751

M01594	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1109126
M01594	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1058681
M01594	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1247975
M01594	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0932003
M01594	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1106559
M01594	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1282841
M01594	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.1163131
M01594	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.109718
M01603	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1132156
M01603	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1334664
M01603	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0966997
M01603	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1123341
M01604	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09865136
M01604	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09577251
M01604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08417253
M01604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09243543
M01604	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0908358
M01605	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2727858
M01605	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.20187489
M01605	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2422878
M01605	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2830027
M01605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.3008048
M01605	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25659857
M01605	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2738773
M01605	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3679788
M01605	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2567432
M01605	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.536148
M01638	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.130742
M01638	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1238446
M01638	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1018553
M01638	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0853911
M01638	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09974125
M01638	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0984229
M01638	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1456898
M01638	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14731251
M01638	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1050216
M01638	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1392411
M01642	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0905102
M01642	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08195586
M01642	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.13102742
M01642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0884505
M01642	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0885313
M01643	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0978807
M01643	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.119655
M01643	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.11002041
M01643	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09807748
M01643	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.14032455
M01643	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.099876
M01643	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09826979
M01643	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0882069

M01644	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846549
M01644	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0790341
M01644	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0915055
M01644	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.092508
M01644	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1087775
M01644	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0901247
M01644	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0957149
M01644	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.10721796
M01644	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.08429466
M01645	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0899879
M01645	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08665463
M01645	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.08689133
M01645	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.0824067
M01648	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1184622
M01648	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0789315
M01648	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0789315
M01648	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11324014
M01648	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.07732825
M01648	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.09283305
M01648	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0978663
M01648	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.07568846
M01648	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1325609
M01648	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12050432
M01648	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.0928981
M01648	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0789315
M01648	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.0787381
M01648	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1122969
M01648	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0845245
M01648	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1108756
M01648	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1091123
M01648	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0916718
M01649	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0869941
M01649	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.1377599
M01649	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.086906
M01649	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1214478
M01649	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0823184
M01649	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843216
M01649	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10683702
M01649	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1131245
M01649	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0885867
M01649	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0897538
M01651	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08799536
M01651	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0793101
M01651	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.2444412
M01651	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1270654
M01651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08849628
M01651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08238978
M01651	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1038547
M01651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1851106
M01651	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.10680358

M01669	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0872585
M01669	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10451008
M01669	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09323654
M01669	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0902448
M01669	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.09287914
M01768	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1836098
M01768	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2398263
M01768	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2317783
M01768	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2687817
M01806	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2261818
M01806	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.19579209
M01806	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.21436661
M01827	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0994909
M01827	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1176389
M01827	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09728466
M01827	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11683939
M01827	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1372238
M01827	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1308935
M01827	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1566752
M01827	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10585324
M01827	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1232823
M01827	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1065624
M01827	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1315594
M01868	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0932313
M01868	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12346437
M01868	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0806331
M01868	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1033863
M01868	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1154003
M01868	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0838676
M01868	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0892738
M01868	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0817166
M01898	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0821282
M01898	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09080147
M01898	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0870296
M01898	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0894387
M01898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0916191
M01899	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.23092615
M01899	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.21041317
M01899	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3405779
M01899	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3181481
M01899	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3489697
M01899	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5985118
M01899	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2813603
M01899	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.386472
M02125	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12040445
M02125	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.0958465
M02125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10341943
M02125	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1035871
M02125	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0872511
M02125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1489261

M02125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1590178
M02125	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1095598
M02125	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1033517
M02125	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1429813
M02132	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.10363248
M02132	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07621283
M02132	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1373494
M02132	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0819723
M02132	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0834061
M02132	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1507281
M02132	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1095602
M02132	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1087737
M02134	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.235939
M02134	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.2086079
M02134	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2280679
M02137	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.11623317
M02137	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11026944
M02137	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.10251469
M02137	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08765418
M02137	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.12970412
M02137	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.08484535
M02137	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.09427058
M02137	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.12672164
M02137	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.09836996
M02137	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0853265
M02150	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1054008
M02150	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0857646
M02150	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1390477
M02150	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1267525
M02150	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0819088
M02150	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0904819
M02150	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellisella	-0.1046477
M02150	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1119053
M02150	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1575168
M02150	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1067692
M02150	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1313283
M02150	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0768358
M02150	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	-0.0868873
M02150	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2149983
M02150	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0966896
M02150	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.1041962
M02150	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	-0.0791615
M02150	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.0841056
M02150	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1483391
M02150	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1213127
M02150	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2077118
M02150	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1079431
M02183	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.08098
M02183	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0804299
M02183	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0799717

M02183	order	k_Bacteria.p_Chlorobi.c_Ignavibacteria.o_Ignavibacteriales	0.09040897
M02183	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.0951994
M02183	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1018509
M02183	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.0869737
M02183	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomyce	0.10878641
M02183	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ricketts	-0.0880708
M02183	order	k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Camp	-0.0817935
M02183	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alterc	-0.0823266
M02183	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1127587
M02183	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR1	-0.0807172
M02183	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1072483
M02183	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.0961673
M02183	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.1026284
M02183	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucom	-0.0901988
M02342	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	0.08308406
M02342	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	-0.1039249
M02342	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhizobi	-0.0835255
M02342	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Myxoco	-0.0883462
M02734	order	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales	0.10616332
M02734	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.12740719
M02734	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Neisseria	0.09550704
M02734	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1662647
M02829	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.1147015
M02829	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.1199777
M02829	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.08898956
M02829	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.11497608
M02829	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	0.08094092
M02829	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.17403034
M02829	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.0951489
M02829	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.102389
M02829	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.10494
M02829	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucom	-0.1451828
M02959	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	-0.2338662
M02959	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_iii1.15	0.22886049
M02959	order	k_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales	0.2140479
M02959	order	k_Bacteria.p_Bacteroidetes.c_Saprospirae.o_Saprospirales	0.19480458
M02959	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatale	0.20301321
M02959	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Cauloba	0.21568967
M02959	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Ellin6067	0.20846444
M02959	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosom	0.21511719
M02959	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.2286597
M03127	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	-0.1179425
M03127	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.132711
M03127	order	k_Bacteria.p_Acidobacteria.c_Acidobacteriia.o_Acidobacteriale	-0.107215
M03127	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_PK29	-0.0874342
M03127	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_RB41	-0.1063051
M03127	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	0.10042203
M03127	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	-0.0874342
M03127	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.10792606
M03127	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.0874342

M03127	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.0995515
M03127	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.0824184
M03127	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriimonadiales	-0.0874342
M03127	order	k_Bacteria.p_Caldithrix.c_KSB1.o_GW.22	-0.0883558
M03127	order	k_Bacteria.p_Chlamydiae.c_Chlamydiia.o_Chlamydiales	-0.1165821
M03127	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.0824204
M03127	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.0859647
M03127	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.1089507
M03127	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.107215
M03127	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	0.09718182
M03127	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.09703893
M03127	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocales	0.08241187
M03127	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_258ds10	-0.0824156
M03127	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.0837361
M03127	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.082805
M03127	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Natranaerobiales	-0.0824156
M03127	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_OPB54	-0.0855652
M03127	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1221507
M03127	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Thermoanaerobacteriales	-0.0865036
M03127	order	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales	-0.1173198
M03127	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Gemmatimonadetales	-0.1121509
M03127	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Nitrospirales	0.09278044
M03127	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.155855
M03127	order	k_Bacteria.p_Nitrospirae.c_Nitrospira.o_Nitrospirales	-0.0847361
M03127	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_WD2101	-0.0874342
M03127	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales	-0.1093056
M03127	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_BD7.3	-0.1117256
M03127	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ellin329	-0.0824156
M03127	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rickettsiales	-0.1002735
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionellales	-0.1160422
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_IS.44	-0.1277435
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MKC10	0.08020078
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocyclales	-0.0830392
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.082266
M03127	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SC.I.84	-0.1158793
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobacteriales	-0.1006545
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Entotheonellales	-0.0824194
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_GMD14	-0.0824156
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_NB1.j	-0.1183874
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Spirochaetales	0.08241187
M03127	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Syntrophomonadales	-0.0874342
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Acidithiobacterales	0.08073292
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alteromonadales	-0.0998758
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardiobacteriales	-0.0966513
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chrorobacteriales	-0.1375433
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enterobacteriales	-0.0936777
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.11639882
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.1072644
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Oceanospirillales	-0.0847701
M03127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR1	-0.0961055

M03127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19329563
M03127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0795804
M03127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1322721
M03127	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.107215
M03127	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1141307
M03127	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1100101
M03127	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0931596
M03127	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1143284
M03127	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	-0.1331026
M03127	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0982943
M03127	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0986094
M03127	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1124242
M03127	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1126581
M03141	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12165034
M03141	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09536544
M03141	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08787471
M03141	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.13077391
M03141	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1000035
M03141	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.0944234
M03141	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.1221304
M03141	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15085716
M03147	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1255918
M03147	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1475146
M03147	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.079511
M03147	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0881491
M03147	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1154097
M03147	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.09471092
M03147	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1139777
M03147	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.1111327
M03147	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0881491
M03147	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.10004863
M03147	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1227044
M03147	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1041868
M03147	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.1057206
M03147	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1687466
M03147	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1378179
M03147	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0794551
M03147	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1286298
M03147	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1265163
M03147	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.105423
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0866955
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0883064
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1485214
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0835769
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15057432
M03147	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1407502
M03147	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0881491
M03147	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1538471
M03147	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0852854
M03147	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1216039

M03147	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.1316099
M03147	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1045799
M03147	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1023368
M03147	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0912732
M03155	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1227591
M03155	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0851124
M03155	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08684889
M03155	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0842055
M03155	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0925805
M03155	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0928112
M03155	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0821746
M03155	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.0922609
M03155	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	-0.0914755
M03155	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.1255389
M03155	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.10307868
M03155	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.09981
M03155	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1177333
M03155	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.0944171
M04970	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.18662352
M04970	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1976301
M04970	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.1986692
M04970	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.1743915
M04970	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.1743915
M04970	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.1743915
M04970	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1963163
M04970	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.1766744
M04970	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.1994673
M04970	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.1743915
M04970	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.1877053
M04970	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.18659578
M04970	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.1766766
M04970	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.1840121
M04970	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.1841689
M04970	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.17667191
M04970	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.176674
M04970	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.17787432
M04970	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1999424
M04970	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.21759822
M04970	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.176674
M04970	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.2233581
M04970	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__NG1	0.17165193
M04970	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.189054
M04970	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.189054
M04970	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.1743915
M04970	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.23652024
M04970	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.176674
M04970	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1830589
M04970	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.1901057
M04970	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.17605525
M04970	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.229926

M04970	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1766758
M04970	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.176674
M04970	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.17667191
M04970	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1743915
M04970	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.17495459
M04970	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.189054
M04970	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.1747388
M04970	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.3033776
M04970	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1753754
M04970	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.23084
M04970	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.2416952
M04970	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2033043
M05086	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0848278
M05086	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.08670895
M05086	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0892702
M05086	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0848278
M05086	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.0829944
M05086	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0920694
M05086	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0927392
M05086	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0997118
M05086	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843815
M05086	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09517178
M05086	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1149793
M05086	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1101185
M05086	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0848278
M05086	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0889218
M05341	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1372971
M05341	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1334995
M05341	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0807474
M05341	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0866493
M06104	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0938372
M06104	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0953957
M06104	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0844108
M06146	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.09516861
M06146	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0882927
M06146	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09027819
M06146	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.1007118
M06146	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09318662
M06146	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1419939
M06146	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.0889505
M06146	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1269632
M06146	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1010328
M12032	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2842867
M12032	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2826191
M12032	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.23443312
M12032	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2685255
M12032	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2681647
M12032	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.3649049
M12032	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2313814
M12032	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2229779

M12032	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.3334893
M12032	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2482564
M12032	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.2151546
M12110	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.3071502
M12110	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3035056
M12110	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.3242296
M12110	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.5255932
M12110	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.30445392
M12110	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.32000357
M12110	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.26583861
M12110	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.28072333
M12110	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2558147
M12110	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.32478849
M12110	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.23627543
M12110	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.29305521
M12110	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.27224617
M12110	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2425126
M12110	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.25041848
M12110	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.24661979
M12115	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1742337
M12115	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2171066
M12115	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1820122
M12115	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.20199773
M12115	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.28975011
M12129	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.3002435
M12129	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3347686
M12129	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.4245674
M12129	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2979671
M12129	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.21195372
M12129	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.30908538
M12129	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2162969
M12129	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.26259019
M12129	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2227628
M12129	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.22809556
M12129	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.28139363
M12129	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.21436598
M12129	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1989043
M12129	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.21809521
M12129	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2534312
M12129	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21403487
M12129	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.227504
M12142	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.0988595
M12142	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0846325
M12261	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2115184
M12261	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.20967062
M12261	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2148033
M12261	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19831522
M12261	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.17780736
M15076	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08665773
M15076	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0820763

M15076	order	k_Bacteria.p_Acidobacteria.c_Acidobacteriia.o_Acidobacteriales	-0.0969911
M15076	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_PK29	-0.0919343
M15076	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	-0.0919343
M15076	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.10747332
M15076	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.0919343
M15076	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.091483
M15076	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriimonadiales	-0.0919343
M15076	order	k_Bacteria.p_Caldithrix.c_KSB1.o_GW.22	-0.0983334
M15076	order	k_Bacteria.p_Chlamydiae.c_Chlamydia.o_Chlamydiales	-0.0940759
M15076	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.0914858
M15076	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.0918815
M15076	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.0863523
M15076	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_H39	-0.089233
M15076	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.0969911
M15076	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Chlorophyta	-0.098389
M15076	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.09859241
M15076	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocales	0.09148024
M15076	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_258ds10	-0.0914823
M15076	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_Fibrobacterales	0.0898894
M15076	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.1268715
M15076	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.0861027
M15076	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	-0.0957785
M15076	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Natranaerobiales	-0.0914823
M15076	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1282564
M15076	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Thermoanaerobacteriales	-0.0882889
M15076	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ellin329	-0.1076826
M15076	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_GM10	-0.105475
M15076	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Natrasphaerales	0.09670644
M15076	order	k_Bacteria.p_Nitrospirae.c_Nitrospira.o_Nitrospirales	-0.0830805
M15076	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_WD2101	-0.0919343
M15076	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_BD7.3	-0.0958077
M15076	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ellin329	-0.0914823
M15076	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rickettsiales	-0.0895497
M15076	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionellales	-0.0868274
M15076	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_IS.44	-0.0895962
M15076	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MKC10	0.09354595
M15076	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocyclales	-0.1039268
M15076	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.1124985
M15076	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Entotheonellales	-0.0914844
M15076	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_GMD14	-0.0914823
M15076	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Spirochaetales	0.09148024
M15076	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Syntrophomonadales	-0.0919343
M15076	order	k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Campylobacteriales	-0.1011133
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Acidithiobacterales	0.09379763
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alteromonadales	-0.0885791
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chroococcales	-0.1087189
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.10883968
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.1127082
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR1	-0.1179507
M15076	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Thiohalobacterales	-0.0976034

M15076	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0969911
M15076	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0923295
M15122	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1074379
M15122	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0910523
M15122	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.0973854
M15122	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.09799546
M15122	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0958745
M15122	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0977856
M15122	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1142982
M15122	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1668087
M15122	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16759565
M15122	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0819252
M15122	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1202713
M15122	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1763962
M15125	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2735955
M15125	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1902884
M15125	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1878101
M15130	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1002346
M15130	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09208667
M15130	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	0.12531162
M15130	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08465547
M15130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18813841
M15130	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1054863
M15135	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1157314
M15135	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0870313
M15135	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.1381269
M15135	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	0.22718236
M15135	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1401116
M15135	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0866392
M15135	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23255599
M15135	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.09604425
M15136	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2392532
M15136	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2011134
M15136	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2085247
M15136	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.2197103
M15136	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2085247
M15136	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.19879636
M15136	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2754928
M15136	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.6393431
M15136	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2085247
M15136	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2782559
M15136	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.1966968
M15136	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2222246
M15136	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimc	-0.2085247
M15136	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2741907
M15136	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.1966987
M15136	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.2134755
M15136	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2011134
M15136	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.21830591
M15136	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1961862

M15136	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.19866838
M15136	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.19665657
M15136	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.1966772
M15136	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.4106812
M15136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2171566
M15136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.30535405
M15136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.1966772
M15136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2776033
M15136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2151126
M15136	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.19726006
M15136	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.1989664
M15136	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2085247
M15136	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.2814102
M15136	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin325	-0.1966772
M15136	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.23013949
M15136	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2463501
M15136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2232247
M15136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1966978
M15136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.1966772
M15136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.19665657
M15136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2085247
M15136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.19481683
M15136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2088667
M15136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2304591
M15136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.215541
M15136	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2011134
M15136	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2140113
M15136	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2556805
M15142	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10259778
M15142	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.09877001
M15142	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.11502875
M15142	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10266645
M15142	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.12806766
M15142	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.11204989
M15142	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1219216
M15142	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.09522964
M15142	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.09522964
M15142	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.08783492
M15142	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.15027972
M15142	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09522964
M15142	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09800488
M15308	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2959379
M15308	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.22362259
M15308	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18985682
M15336	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1765507
M15336	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2199232
M15336	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2878478
M15336	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.1787197
M15336	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.19890548
M15336	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25838825

M15336	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1988055
M15336	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.17555402
M15443	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0807164
M15443	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1332214
M15443	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.09043478
M15443	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0816454
M15443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	-0.1003405
M15443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1021728
M15443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.15830111
M15443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.08300542
M15443	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1009905
M15443	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1666124
M15497	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2461182
M15497	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.2007884
M15500	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.21967328
M15500	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.15298935
M15500	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.079294
M15506	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0859293
M15506	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.11956
M15506	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.128562
M15506	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10398413
M15506	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10573731
M15506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.08936094
M15506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	-0.080768
M15506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1107648
M15506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	-0.0774975
M15506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.2168639
M15506	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.084306
M15506	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0930952
M15581	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0931906
M15581	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08397893
M15581	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08558748
M15581	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.10076555
M15581	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0893905
M15581	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.19102912
M15581	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1197254
M15581	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1349592
M15586	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1183232
M15586	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1467687
M15586	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.1301076
M15586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0965751
M15586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16424669
M15586	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1181823
M15586	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1359331
M15587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11413553
M15587	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1147686
M15587	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09507699
M15587	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Elliselliales	0.09616354
M15587	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	0.10309395
M15587	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.10405058

M15587	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.09573499
M15587	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08258334
M15587	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.08904167
M15587	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.08384096
M15650	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G6	-0.2123934
M15650	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.23241783
M15650	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1919588
M15650	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2071177
M15650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2389344
M15650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2186465
M15650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22258646
M15667	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08347965
M15667	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.0908824
M15667	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.12761908
M15667	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.0841412
M15667	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14923384
M15673	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2217403
M15673	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2046944
M15673	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.24319703
M15673	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33978109
M15673	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2941589
M15676	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0922536
M15676	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.0812537
M15676	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.076575
M15676	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0827885
M15676	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0794213
M15676	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1055753
M15676	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1055199
M15676	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.12678533
M15676	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.10922865
M15677	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0909431
M15677	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0986632
M15677	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08905933
M15677	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1475127
M15677	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13122083
M15677	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910746
M15677	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09712782
M15677	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1445118
M15677	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1158485
M15677	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0900281
M15677	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1691315
M15679	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1703162
M15679	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.26615008
M15679	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.20683895
M15679	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.180865
M15679	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2032476
M15679	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1881121
M15679	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1823472
M15679	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G6	-0.1874097
M15679	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2398551

M15679	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.19828868
M15679	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2276904
M15679	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.17591217
M15679	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.2351005
M15679	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1929464
M15679	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.19046009
M15679	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1972155
M15679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2161591
M15679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1843489
M15679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29669847
M15679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.238776
M15679	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2149628
M15679	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.269605
M15679	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2501697
M15679	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2198691
M15681	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08717862
M15681	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1205521
M15681	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.13984994
M15681	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.0784858
M15681	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.12224853
M15681	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0851345
M15681	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0808414
M15681	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1227833
M15681	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0845571
M15681	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.09021928
M15681	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.08503012
M15685	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2179503
M15685	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1903557
M15685	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2001225
M15685	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1924184
M15685	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.1735528
M15685	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1819956
M15685	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1707232
M15685	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30303175
M15685	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.27133
M15685	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.239018
M15685	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2865081
M15685	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2825058
M15685	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1675686
M15685	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2981536
M15704	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2217254
M15704	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.25895723
M15704	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.22029547
M15704	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.37167787
M15704	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.22029547
M15704	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	-0.2374392
M15704	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25896321
M15704	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.22029547
M15704	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.24513808
M15704	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.20700732

M15704	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	0.22029547
M15704	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2386073
M15704	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.21021643
M15704	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	0.22032506
M15704	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.20697516
M15704	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.21586594
M15704	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.25186289
M15704	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.23242599
M15704	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.2044116
M15704	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.2070108
M15704	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.20700123
M15704	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.19657785
M15704	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.19933026
M15704	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.21631267
M15704	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.20700123
M15704	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2648846
M15704	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	0.21681667
M15704	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.1895963
M15704	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.23924383
M15704	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin6067	0.39186664
M15704	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadiales	0.36770045
M15704	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nitrospirales	-0.2041579
M15704	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.27592299
M15704	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.22029547
M15704	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.21661986
M15704	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.20152838
M15704	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.20700123
M15704	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2294744
M15704	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum rubrum	0.24430068
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.26078456
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionella	0.24184977
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.40197501
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.2066765
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.34149071
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacterium	0.19218833
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocycla	0.28483177
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.36962484
M15704	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.29388224
M15704	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheca	0.20699205
M15704	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.20700123
M15704	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetes	-0.2070108
M15704	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonas	0.22029547
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacillus	-0.207517
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonas	0.23442244
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacterium	0.26391679
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatium	0.34223938
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriaceae	0.30412546
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2669345
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.41360909
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionella	0.2740941

M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.34286291
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.29115345
M15704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.344736
M15704	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2272573
M15704	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	0.37300558
M15704	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.39785064
M15704	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.3441223
M15705	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2676654
M15705	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2131001
M15705	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2517532
M15705	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1930156
M15705	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.1759609
M15705	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.2065304
M15705	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.193162
M15705	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2872589
M15705	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2127654
M15705	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3887835
M15705	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.282438
M15705	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1860054
M15705	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3228569
M15705	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3035791
M15705	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2244705
M15705	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.45536
M15716	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11388111
M15716	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09552117
M15716	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11369876
M15716	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12570215
M15716	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.09971357
M15716	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.09695502
M15720	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1114298
M15720	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1186192
M15720	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10934236
M15720	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.100625
M15720	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08598143
M15720	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.0767382
M15720	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1029318
M15720	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.10443
M15729	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.12787744
M15729	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1400259
M15729	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.09944213
M15729	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.09982545
M15730	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.09683476
M15730	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08110071
M15730	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.07368514
M15730	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.09640613
M15730	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1145058
M15730	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1180039
M15730	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.15132681
M15730	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0831448
M15730	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.191088

M15730	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08395879
M15730	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1227851
M15730	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.15246328
M15730	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	0.18726925
M15745	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11940636
M15745	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.0910194
M15745	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.08223702
M15745	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.10926212
M15745	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1613281
M15745	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	-0.1103055
M15747	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0888697
M15747	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.097496
M15747	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacterales	-0.0809756
M15747	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1290885
M15747	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1088608
M15747	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia	-0.1309473
M15749	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0834117
M15749	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1481108
M15749	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1311924
M15749	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1159803
M15749	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1187766
M15749	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.0986697
M15749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1476508
M15749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.18313545
M15749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.0954217
M15749	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.105009
M15749	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.09388848
M15749	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0823449
M15765	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0854496
M15765	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.10604
M15765	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1051689
M15765	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	-0.1204785
M15765	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1364904
M15765	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.095644
M15772	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0926611
M15772	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0855135
M15772	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10930521
M15772	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0915025
M15772	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.1292531
M15778	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1146943
M15778	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10167301
M15778	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08331332
M15778	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08495606
M15778	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10703393
M15778	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0871718
M15778	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0924394
M15778	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.1239463
M15778	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0870075
M15778	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0800353
M15778	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.11169243

M15778	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0842679
M15778	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1329602
M15797	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1852457
M15797	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1822879
M15797	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.2916132
M15797	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.209481
M15872	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0881492
M15872	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07512001
M15872	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10527158
M15872	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10093452
M15872	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.07952262
M15872	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09280837
M15872	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.13032576
M15872	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.07926253
M15872	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.15609491
M15872	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.08584112
M15872	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.08091926
M15949	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0886205
M15949	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1050661
M15949	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1546486
M15949	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.10456755
M15949	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2587457
M15949	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.22948153
M15949	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1087709
M15958	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0864622
M15958	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.09261193
M15958	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.07831229
M15958	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0825682
M15958	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.0796589
M15958	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.0847393
M15958	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.111453
M15958	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	0.11649355
M15958	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.094017
M15958	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0835042
M15958	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.07875
M15958	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.0901844
M15958	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1280859
M15958	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1109382
M15958	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0820154
M15958	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1683451
M15990	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.3037037
M15990	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.22801935
M15990	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.43245349
M15990	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.4030921
M15990	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.30040207
M15990	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.30040207
M15990	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.3061599
M15990	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.25604284
M15990	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.25702336
M15990	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	0.24481339

M15990	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.24140619
M15990	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2937255
M15990	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.25413903
M15990	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.30040207
M15990	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2963802
M15990	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	-0.2608455
M15990	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.26044186
M15990	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3105794
M15990	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2939408
M17665	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2405735
M17665	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	0.17508619
M17665	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.17960743
M17665	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.22428736
M17665	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.2366198
M17665	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2134722
M17665	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.22428736
M17665	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	-0.2256975
M17665	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.22428736
M17665	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.22075626
M17665	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.22428736
M17665	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.22367873
M17665	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2106939
M17665	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.21127372
M17665	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	0.25162234
M17665	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.1994276
M17665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.22075406
M17665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.22585483
M17665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.22320479
M17665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.20580155
M17665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.17960743
M17665	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2082418
M17665	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.1938622
M17665	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.2207303
M17665	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.2002203
M17665	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.22074279
M17665	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.2107787
M17665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	0.21288872
M17665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.188763
M17665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.22074279
M17665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	0.23119077
M17665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.19052533
M17665	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.2265728
M17665	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.24823383
M17665	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.22443615
M17665	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	-0.2188536
M17665	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.22481521
M17665	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.19188895
M17665	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.19188895
M17665	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.22428736
M17665	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.21892001

M17665	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.22074279
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21104893
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione1	0.2308435
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.25106431
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.2230086
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.38327344
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.20087335
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.24367653
M17665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.20118873
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.18213768
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.22075516
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.22074279
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.1905279
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.2207303
M17665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	0.22428736
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	-0.2231813
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22295873
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.21426367
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.23052402
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2330117
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.2384402
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.19188895
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.22203968
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.26847903
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.18553474
M17665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.20676005
M17665	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.17960743
M17665	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.20586944
M17665	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.17008619
M17665	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.1784059
M17665	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.28275213
M17665	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.25138149
M17747	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0945235
M17747	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08606853
M17747	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.082452
M17747	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08474319
M17747	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0808556
M17747	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0915902
M17747	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11957723
M17747	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1146415
M17747	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0860265
M17747	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1057126
M17747	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1118145
M17747	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1268516
M17747	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0966189
M17747	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1565907
M17769	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0803408
M17769	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1250616
M17769	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0894256
M17769	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0761728

M17769	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.08665175
M17769	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0761728
M17769	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.0915328
M17769	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11126664
M17769	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0761728
M17769	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0761646
M17769	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.0761728
M17769	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.07851045
M17769	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0764494
M17769	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0900498
M17769	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0761679
M17769	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.077319
M17769	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0934493
M17769	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0894256
M17769	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.08015549
M17769	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08574055
M17769	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07615934
M17769	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0761628
M17769	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07693234
M17769	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	-0.1297221
M17769	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0962035
M17769	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.086766
M17769	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0761628
M17769	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1009164
M17769	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0992595
M17769	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08761639
M17769	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.08209455
M17769	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1871619
M17769	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0761728
M17769	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0842783
M17769	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0761628
M17769	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0816491
M17769	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0959886
M17769	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.08066783
M17769	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0769014
M17769	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.0799189
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.100483
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0761662
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0761628
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0812086
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.07615934
M17769	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0761728
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.08091285
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1207054
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.08953
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09115131
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0758763
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0743491
M17769	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.144999
M17769	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0894256

M17769	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1067759
M17769	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1503739
M17769	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1600459
M17769	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0854507
M17769	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1568823
M17769	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1050679
M17769	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0837557
M17769	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0805795
M17772	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17017183
M17772	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.21443022
M17772	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.18993438
M17772	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2532392
M17772	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.29850683
M17772	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2956271
M17772	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1840855
M17772	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2426584
M17772	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3690104
M17774	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1991591
M17774	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.23579844
M17774	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.22568679
M17805	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.09206158
M17805	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0889226
M17805	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	-0.134209
M17805	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1970671
M17805	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1156142
M17805	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1116778
M17895	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1015815
M17895	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09229496
M17895	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09142438
M17895	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0822414
M17945	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.3387132
M17945	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22260787
M17945	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.2286321
M17945	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2363935
M17945	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacterales	-0.2436013
M17945	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2334882
M17945	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2698035
M17945	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2538246
M17945	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41	0.26651804
M18245	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1792615
M18245	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.16604619
M18245	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2067784
M18245	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.271714
M18245	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.16557536
M18245	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.2123619
M18245	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales	-0.2947732
M18245	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2522351
M18245	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2095192
M18245	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2133572
M18245	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2069887

M18254	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08348462
M18254	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09573247
M18254	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1542623
M18254	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0965774
M18254	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08129146
M18254	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.13011
M18254	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0939196
M18254	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1993446
M18254	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0889845
M18254	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1170715
M18280	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2412874
M18280	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2470938
M18280	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.22520256
M18280	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3413486
M18280	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2781982
M18280	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3266761
M18280	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.57338112
M18280	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3382481
M18280	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2990627
M18280	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.4730556
M18292	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1285957
M18292	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11754863
M18292	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0874137
M18292	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1185409
M18319	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10143801
M18319	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1033747
M18319	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08212983
M18319	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13858904
M18319	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.09428437
M18319	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.13740845
M18319	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0916051
M18319	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.0888374
M18319	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10353451
M18319	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.08414415
M18319	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1078674
M18319	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1077579
M18335	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0842941
M18335	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.07909048
M18335	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.09087025
M18349	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1120657
M18349	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1064543
M18349	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0898406
M18349	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1003804
M18349	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1189647
M18349	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12213059
M18349	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.1040184
M18349	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.11348
M18354	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1080139
M18354	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0889874
M18354	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0778524

M18354	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	-0.0778524
M18354	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.08218497
M18354	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.0931085
M18354	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.0778524
M18354	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.1244546
M18354	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.0758897
M18354	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriim	-0.0778524
M18354	order	k_Bacteria.p_Caldithrix.c_KSB1.o_GW.22	-0.0752014
M18354	order	k_Bacteria.p_Chlamydiae.c_Chlamydiia.o_Chlamydiales	-0.0920496
M18354	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.0758841
M18354	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.0793583
M18354	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.0842115
M18354	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_H39	-0.0811753
M18354	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.0889874
M18354	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	0.08763606
M18354	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.08102708
M18354	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocale:	0.07588237
M18354	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_FAC88	-0.0756668
M18354	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_258ds10	-0.0758847
M18354	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.097571
M18354	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	0.12175541
M18354	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Natranaerobiales	-0.0758847
M18354	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.0902694
M18354	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Thermoanaerobacteral	-0.0750994
M18354	order	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales	-0.0932492
M18354	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ell	-0.0821746
M18354	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	-0.110215
M18354	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_N:	0.07794415
M18354	order	k_Bacteria.p_Nitrospirae.c_Nitrospira.o_Nitrospirales	-0.0779007
M18354	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_WD2101	-0.0778524
M18354	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_BD7.3	-0.0819018
M18354	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ellin329	-0.0758847
M18354	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ricketts	-0.0769125
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionel	-0.08736
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_IS.44	-0.0897959
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MKC10	0.07490257
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MND1	-0.0758438
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocy	-0.101126
M18354	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.0912168
M18354	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Entothe	-0.0758869
M18354	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_GMD14	-0.0758847
M18354	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_NB1.j	-0.0816314
M18354	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Spiroba	0.07588237
M18354	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Syntrop	-0.0778524
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Acidit	0.0749978
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alterc	-0.0874545
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardi	-0.080027
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chror	-0.0796973
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1412252
M18354	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.08399616

M18354	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1004978
M18354	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0766521
M18354	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0976006
M18354	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21728948
M18354	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0857108
M18354	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0889874
M18354	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0799731
M18354	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.15767898
M18354	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0911352
M18354	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0890797
M18354	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0778849
M18357	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0907887
M18357	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0797075
M18357	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07885379
M18357	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1583531
M18357	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1307758
M18357	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09312518
M18357	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.0969764
M18357	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1113459
M18357	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0957419
M18357	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1812007
M18357	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1577489
M18357	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1176255
M18362	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobac	0.08315945
M18362	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0937633
M18362	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.0995238
M18362	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1164698
M18362	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.099504
M18362	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.16422377
M18362	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.0727581
M18362	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campy	-0.0887159
M18362	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.09031805
M18362	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22621501
M18362	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.27384076
M18362	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.1177582
M18362	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.17946962
M18369	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1529483
M18369	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1124993
M18369	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1279443
M18369	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11713599
M18369	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0826595
M18369	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0878984
M18374	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0869338
M18374	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.07782052
M18374	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0904599
M18374	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08842971
M18374	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1143405
M18374	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.07826523
M18374	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08994633
M18374	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.085178

M18374	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08573072
M18374	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.0951041
M18374	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.09145
M18374	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.120972
M18374	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0940748
M18374	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0947657
M18392	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.18920566
M18392	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2855336
M18392	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.22169025
M18392	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.2189471
M18392	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2845054
M18392	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3739101
M18392	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2372107
M18392	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1955893
M18394	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08894473
M18394	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0841117
M18394	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0957023
M18394	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.1030962
M18467	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.14842
M18467	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0971296
M18467	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10240265
M18467	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0879122
M18467	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0878118
M18467	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2384241
M18467	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1513493
M18467	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2100473
M18476	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.097525
M18476	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0869456
M18476	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0866218
M18476	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1269104
M18476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0943757
M18476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1035536
M18476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1359456
M18476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16148574
M18476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.089888
M18476	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0917738
M18476	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1154016
M18476	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1368511
M18476	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1119535
M18477	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1085591
M18477	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0825432
M18477	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1516707
M18477	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0934726
M18477	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0815669
M18477	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0909336
M18477	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0797135
M18477	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1038798
M18477	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1252237
M18477	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0972225
M18494	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2259516

M18494	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2478299
M18494	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1821115
M18494	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.1776843
M18494	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2085964
M18494	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.31227251
M18494	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2979957
M18497	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.17728373
M18497	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.2436379
M18497	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.1663632
M18497	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.1992009
M18497	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.178563
M18497	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2217628
M18497	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.34615584
M18497	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2312516
M18497	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2134579
M18497	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1831798
M19130	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.16380577
M19130	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.21914491
M19130	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.23986246
M19130	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.2540024
M19130	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.23868531
M19130	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.19836259
M19130	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.28587758
M19130	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.19552169
M19130	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.19552169
M19130	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.25880319
M19130	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.16764292
M19130	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.24097787
M19130	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.26334197
M19130	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.18222399
M19130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	0.16133652
M19130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.16207978
M19130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.23571671
M19130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.19552169
M19130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2163283
M19130	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.23858738
M19130	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.17186408
M19130	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1778113
M19130	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.27597432
M19130	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1874064
M19130	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerales	0.19475064
M19263	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2358716
M19263	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.284333
M19263	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.2249169
M19263	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.34926913
M19263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.34087275
M19263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.22593717
M19263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.22084298
M19263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2800625
M19263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.202107

M19263	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.20088957
M19263	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.22796857
M19263	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2344243
M19263	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.23317166
M19324	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2369462
M19324	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.17394422
M19324	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2282513
M20676	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09441267
M20676	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.09293259
M20676	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.09763971
M20676	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.09002818
M20676	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.0881344
M20691	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08771059
M20691	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1023425
M20691	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0978832
M20691	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.09165056
M20691	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.08619089
M20691	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.0910838
M20691	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1553189
M20691	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1059425
M20691	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1553189
M20691	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1175373
M20703	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10470167
M20703	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.10427875
M20703	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.0936034
M20703	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0785271
M20703	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08742516
M20703	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.17435006
M20703	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.12302601
M20758	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0863905
M20758	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0925548
M20758	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1915245
M20758	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10748637
M20758	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09881956
M20758	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.08164787
M20758	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1553423
M20758	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.31120422
M20758	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0859423
M20758	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0928966
M20758	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1771655
M21046	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2957234
M21046	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.19638939
M21046	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.22493797
M21046	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.18346445
M21046	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionales	0.18564755
M21046	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.23658618
M21046	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1830998
M21046	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.44347664
M21046	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.30115246
M21046	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.25818078

M21046	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	0.24596602
M21127	order	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales	-0.1006426
M21127	order	k_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphingobact	0.09407905
M21127	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	0.08508801
M21127	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.10361699
M21127	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardi	0.08258227
M21127	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Spirochaetales	-0.1188261
M21127	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.1161135
M21127	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicro	-0.1293336
M21133	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	0.25113335
M21133	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubroba	0.23375783
M21133	order	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	0.19587277
M21133	order	k_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphingobact	-0.2254227
M21133	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	0.25090914
M21133	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacte	0.47091494
M21133	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	0.3612151
M21133	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_MBA08	-0.2918217
M21133	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_OPB54	0.29904884
M21133	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ell	-0.2286156
M21133	order	k_Bacteria.p_Planctomycetes.c_OM190.o_agg27	0.27025911
M21133	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_Phycisphaera	0.27025911
M21133	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomyc	-0.368566
M21133	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodob	-0.3222659
M21133	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionel	-0.2198184
M21133	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylo	-0.2599393
M21133	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Neisseria	0.26377574
M21133	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosos	0.31109706
M21133	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.2109951
M21133	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_BPC076	0.20897651
M21133	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_NB1.j	-0.2387517
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alterc	0.26074332
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chror	-0.2650284
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.2722674
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Marir	0.27025911
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Oceai	-0.2430854
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Thiot	-0.2094288
M21133	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Xantf	-0.2395367
M21133	order	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales	0.44129107
M21133	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Spirochaetales	0.35883927
M21133	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	-0.3822649
M21133	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	-0.2342366
M21133	order	k_Bacteria.p_Verrucomicrobia.c_Verruco.5.o_WCHB1.41	0.26434784
M21133	order	k_Bacteria.p_WS3.c_PRR.12.o_PBS.III.9	-0.2651028
M21133	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	-0.2613181
M21134	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	-0.0822615
M21134	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	0.09132229
M21134	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MND1	0.09134022
M21134	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	-0.1108991
M21134	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pseuc	-0.0776195
M21134	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	0.10678718

M21134	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.09356003
M21151	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.226979
M21151	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.2195904
M21151	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1844904
M21151	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.191319
M21151	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.25278889
M21151	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.1955536
M21151	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2164342
M21151	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1868659
M21151	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2776652
M21158	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.12219091
M21158	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.09061007
M21158	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.12621241
M21158	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.08445976
M21169	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08110216
M21169	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09330349
M21169	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1002488
M21169	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08088753
M21177	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09526961
M21177	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.14561053
M21177	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.1033848
M21177	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1055261
M21177	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.08629395
M21183	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.2018943
M21183	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.22172603
M21183	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.20523746
M21183	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.24117869
M21183	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.25468104
M21183	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.2502999
M21183	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.19565323
M21183	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.21489731
M21183	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.1903143
M21183	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1925404
M21183	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.28943429
M21183	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2128024
M21183	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.22212752
M21183	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.171699
M21183	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.18225353
M21183	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1981265
M21183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.208078
M21183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2118097
M21183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.1872345
M21183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.22310963
M21183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.17099807
M21183	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1854342
M21183	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1972315
M21183	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.26995885
M21183	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1896866
M21183	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.173816
M21184	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1742538

M21184	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.19244469
M21184	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2435285
M21184	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.24196246
M21184	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2026436
M21184	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1793188
M21184	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18460818
M21184	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2092401
M21184	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1936683
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2302335
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1798476
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.3096955
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17433977
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.26217698
M21184	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.18414828
M21184	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.20684352
M21184	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1808033
M21184	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.20515736
M21184	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2023837
M21189	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.21631841
M21189	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.34722455
M21189	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2049955
M21189	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.56756413
M21189	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21160369
M21189	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.24760302
M21232	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.20368208
M21232	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.21322961
M21232	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17690576
M21232	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20505698
M21232	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.17827212
M21232	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2156919
M21232	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2292696
M21232	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2311104
M21300	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2030838
M21300	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2576695
M21300	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2653749
M21300	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22080723
M21300	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2038783
M21300	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.20492356
M21300	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36370682
M21300	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.2123557
M21300	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2740666
M21300	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.21707776
M21300	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.22584737
M22116	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09257981
M22116	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0814721
M22116	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.102359
M22116	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1083672
M22116	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.0954802
M22116	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.0888269
M22118	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1237187

M22118	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0944985
M22118	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08520338
M22118	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0811858
M22118	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0904883
M22118	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0820664
M22118	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1059789
M22118	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.0963745
M22118	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0849829
M22118	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.0778811
M22118	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0881905
M22120	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1678189
M22120	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.09910495
M22120	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.090586
M22120	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0869554
M22120	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0915861
M22120	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0932836
M22120	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.0911332
M22120	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1218087
M22120	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.22670659
M22120	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1604324
M22130	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.123939
M22130	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0812652
M22130	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0896888
M22130	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1003208
M22130	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculales	-0.1353564
M22130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.132387
M22130	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13122644
M22130	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1056381
M22130	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0903136
M22130	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.0911931
M22132	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08799995
M22132	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08138659
M22132	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculales	-0.1018816
M22132	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.100462
M22138	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.07467592
M22138	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.0818919
M22138	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09941057
M22138	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.08790065
M22138	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.11645979
M22138	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08171209
M22138	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1152793
M22138	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	0.07247935
M22138	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.07207576
M22138	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1033857
M22138	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2044416
M22138	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2110188
M22138	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0772257
M22138	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1964666
M22176	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1178242
M22176	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfotomaculales	-0.0875447

M22176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	-0.0900283
M22176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1650987
M22176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1391513
M22176	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1195358
M22177	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.09186451
M22185	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0799657
M22185	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0855237
M22185	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09656794
M22185	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08552287
M22185	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.08783111
M22185	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17916796
M22206	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.19930121
M22206	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.27345183
M22206	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.22978543
M22206	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.21676532
M22206	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33571621
M22206	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.305496
M22206	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.23897997
M22206	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.24179262
M22206	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.20780264
M22273	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1645811
M22273	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.16287594
M22273	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.26817136
M22273	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.18207329
M22273	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.28345807
M22273	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.2495417
M22273	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.35822694
M22273	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.17081191
M22273	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.17304623
M22273	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.26691754
M22273	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.26691754
M22273	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.19128019
M22273	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.23475506
M22273	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.17991684
M22273	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.30278339
M22273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.20835245
M22273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.16468923
M22273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.19499279
M22273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.17948705
M22273	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.19580333
M22273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.26691754
M22273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.17292557
M22273	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.16306859
M22273	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22025066
M22842	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1142513
M22842	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07670474
M22842	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.07808242
M22842	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.07795251
M22842	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14749755
M22842	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0883536

M27414	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08559816
M27414	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.09138659
M27414	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0823057
M27414	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08113276
M27447	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1203098
M27447	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.0991105
M27447	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1115986
M27447	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0870606
M27447	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0794456
M27447	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1062387
M27513	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.07774875
M27513	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.12663034
M27513	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16829631
M27513	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0818902
M27513	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0966868
M27513	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1141843
M27514	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1907581
M27514	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1737313
M27514	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35794194
M27536	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.28643348
M27536	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.34532329
M27536	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.27093025
M27536	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25840877
M27536	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.27096041
M27536	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.311363
M27536	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.32222237
M27536	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.27452963
M27536	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.2243329
M27536	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.28675818
M27553	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.20029143
M27553	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.29975
M27553	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.26192004
M27553	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.29774445
M27553	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.32872584
M27553	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.20051713
M27553	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.30437409
M27553	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.30437409
M27553	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.22266578
M27553	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2324368
M27553	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.19543276
M27553	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.30614438
M27553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.22149843
M27553	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.23067225
M27553	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.28769873
M27553	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.30437409
M27553	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.23222118
M27553	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2352582
M27553	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.25293758
M27553	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.19374355
M27553	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.25444641

M27665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.24535514
M27665	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.253237
M27665	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2122162
M27665	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2261012
M27673	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.10234748
M27673	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1293556
M27673	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0791938
M27673	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.094778
M27673	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0821301
M27673	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0849011
M27673	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.08359
M27673	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0852728
M27673	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.07614632
M27673	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1037266
M27680	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08620892
M27680	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09237731
M27680	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0985175
M27680	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.1056674
M27680	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.10290683
M27680	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08493825
M27680	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.10982843
M27680	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.07769594
M27680	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0980694
M27680	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1387914
M27710	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0828661
M27710	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0877164
M27710	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.0844989
M27710	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0828661
M27710	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11232325
M27710	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0910233
M27710	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	-0.0808872
M27710	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.0818435
M27710	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.0848186
M27710	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0961147
M27710	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceani	-0.0787759
M27710	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0850222
M27710	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0828661
M27710	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0897971
M27718	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.12359483
M27718	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09019749
M27718	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08400122
M27718	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.08119375
M27718	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.12420134
M27718	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.1090475
M27718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.0940517
M27718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.1574707
M27718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.11794798
M27718	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1144031
M27718	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1128037
M27719	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08733106

M27719	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0841526
M27719	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09547865
M27719	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09412283
M27719	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09247279
M27719	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09937509
M27719	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1090999
M27722	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10393827
M27722	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09018285
M27722	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09651461
M27722	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08069413
M27731	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.084621
M27731	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.10366294
M27731	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10248113
M27731	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.07599243
M27731	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.07810944
M27731	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.1193046
M27731	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.07599021
M27731	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.0853337
M27731	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10392399
M27731	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.0804692
M27731	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycidae.o__Nostocales	-0.0759898
M27731	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.07599057
M27731	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.0893824
M27731	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.15005457
M27731	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.0843939
M27731	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.07599057
M27731	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.08068441
M27731	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	-0.0757069
M27731	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.09049203
M27731	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.09049203
M27731	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.1064241
M27731	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.07599057
M27731	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.12601497
M27731	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.0759763
M27731	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12913557
M27731	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.08309365
M27731	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.0939637
M27731	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.07599132
M27731	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.07599057
M27731	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.0759898
M27731	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	-0.0756124
M27731	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alter	0.09181651
M27731	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09049203
M27731	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.14057502
M27731	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.08858089
M27731	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.11300656
M27731	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0848719
M27731	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.10589038
M27731	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.12124629
M27738	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08650608

M27738	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.13802665
M27738	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.0933479
M27738	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0900278
M27738	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08012151
M27738	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0779196
M27738	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.12090492
M27738	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.101304
M27738	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16119509
M27738	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0767723
M27738	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.086351
M27738	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1189269
M27738	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1377657
M30460	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.2167292
M30460	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.23225033
M31530	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1352212
M31530	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1043079
M31532	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1784386
M31532	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1654495
M31532	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0932136
M31532	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2114971
M31532	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10004713
M31539	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0948956
M31539	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1141383
M31539	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.081842
M31555	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08620528
M31555	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0889243
M31555	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1313349
M31555	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.09751276
M31555	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08479041
M31555	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.114309
M31555	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0817515
M31555	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.0984676
M31555	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0817538
M31555	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.1024251
M31555	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0867706
M31555	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.09256709
M31555	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	0.08176093
M31555	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0817568
M31555	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08603113
M31555	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1043447
M31555	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0817568
M31555	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1001901
M31555	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1193337
M31555	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.08304354
M31555	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0996143
M31555	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0817568
M31555	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.08262613
M31555	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1379237
M31555	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0878395
M31555	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0817526

M31555	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0817568
M31555	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.08176093
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.08262216
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0948893
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0897067
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0908679
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09906154
M31555	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1021076
M31555	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2341785
M31555	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1037722
M31555	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1052773
M31555	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0953686
M31675	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1747543
M31675	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.16339111
M31675	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.16728985
M31675	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2260504
M31675	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.17561508
M31675	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.25589819
M31675	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.1724376
M31675	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.17453662
M31675	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.15978136
M31675	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.17020519
M31675	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.17169813
M31675	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.17580813
M31675	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18872342
M31675	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.17529537
M31675	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1684267
M31675	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.16266988
M31675	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2828628
M31675	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.24224402
M31675	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.17863763
M31675	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.17546067
M31675	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.26165324
M31787	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20217018
M31850	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.176821
M31850	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1858201
M31850	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1698163
M31850	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23391467
M31891	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10855544
M31891	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0886686
M31891	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0804018
M31891	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0895338
M31891	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1066701
M31891	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1053008
M31891	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1765644
M31891	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1019578
M31891	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.0975712
M31904	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3142061
M31904	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2095193
M31904	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3454049

M31906	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.23045941
M31906	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.25132943
M31906	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.27839629
M31906	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2560698
M31906	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2896355
M31912	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1915947
M31912	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.18324518
M31912	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1967244
M31912	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1782171
M31932	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.086698
M31932	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08165298
M31938	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.09043642
M31938	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0790938
M31938	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0801089
M31938	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0778204
M31938	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.091368
M31938	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1085588
M31938	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.09211292
M31943	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2044067
M31943	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.198647
M31943	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1897927
M31943	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacterales	0.22254617
M31943	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3502953
M31943	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2785412
M31943	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1894342
M31943	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1776352
M31943	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20848106
M31943	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2605437
M31943	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.4462716
M31943	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.6768928
M31943	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.185212
M31943	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2436872
M31943	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.353858
M32197	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1370003
M32197	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.093627
M32197	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1050436
M32197	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0995579
M32197	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1267812
M32197	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09471167
M32197	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0932117
M32197	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0861247
M32198	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.219878
M32198	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2348034
M32198	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.19600298
M32306	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0938558
M32306	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1337066
M32306	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10470205
M32306	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10432168
M32306	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.15966839
M32306	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacterales	0.08280408

M32306	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0792894
M32306	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23939646
M32306	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0876148
M32306	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1608656
M32342	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2389316
M32342	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.2544557
M32342	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2007253
M32342	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.26233581
M32342	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.28472719
M32342	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.25316114
M32342	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2275927
M32342	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.211791
M32342	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.226503
M32342	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.20338074
M32342	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3408335
M32342	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2176707
M32342	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20410843
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1939309
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2353932
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2828676
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.32233118
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1999274
M32342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.2638757
M32342	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2933199
M32342	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2522511
M32342	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.2119339
M32342	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2577455
M32342	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2605484
M32342	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.3304231
M32342	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.3546757
M32342	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2552355
M32342	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	-0.2886007
M32342	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3268219
M32342	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3243183
M32346	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1152667
M32346	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0934445
M32346	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.090184
M32346	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08285869
M32346	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.1204481
M32346	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0997311
M32346	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0934445
M32346	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.11050146
M32346	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0988243
M32346	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08233221
M32346	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08690958
M32346	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0893454
M32346	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1073447
M32346	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1411321
M32346	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1104725
M32346	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1052542

M32346	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0841358
M32346	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1406077
M32346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0884752
M32346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0947199
M32346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0909895
M32346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13519728
M32346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1026034
M32346	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0934445
M32346	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1049331
M32346	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1085577
M32346	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0831289
M32346	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0915595
M32346	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0961421
M32346	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1375413
M32346	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1158016
M32349	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.0780854
M32349	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.07641492
M32349	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.12597629
M32349	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.09726066
M32349	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.0955769
M32349	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.076468
M32349	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09116824
M32349	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.09311774
M32349	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.08503756
M32349	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.10139169
M32349	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.12111931
M32349	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.08339548
M32349	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.08274159
M32349	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.10196695
M32349	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.07595117
M32349	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0922573
M32349	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.0971581
M32349	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1471459
M32349	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1439898
M32349	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09147792
M32349	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.10298181
M32350	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.086452
M32350	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1081405
M32350	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.086565
M32350	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0942825
M32350	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0884961
M32350	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0935117
M32350	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.090586
M32350	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1105334
M32352	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.108086
M32352	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09420646
M32352	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.094129
M32352	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0860344
M32352	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.114613
M32352	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0969575

M32352	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10106732
M32352	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0798754
M32352	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1038252
M32352	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0905702
M32352	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0849538
M32352	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1229467
M32352	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12186067
M32352	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1038039
M32352	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0834018
M32352	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0852222
M32352	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0872956
M32352	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0854165
M32377	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08213342
M32377	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.08365
M32377	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0936332
M32377	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11584932
M32377	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0974603
M32377	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0871899
M32377	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	0.10853518
M32377	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.1333512
M32377	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10993623
M32377	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1138887
M32377	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.1478968
M32377	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.1103496
M32377	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09092044
M32377	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.08274561
M32377	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08778839
M32377	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1416205
M32377	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1036534
M32388	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09565848
M32388	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1914334
M32388	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0856004
M32388	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1050961
M32388	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.080817
M32388	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09876604
M32388	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0788504
M32388	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.111503
M32388	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.17246028
M32388	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0781386
M32388	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.126912
M32388	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.10466459
M32388	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22182247
M32388	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.26294812
M32388	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.13126594
M32388	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.09864088
M32390	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1143679
M32390	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08177203
M32390	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0847216
M32390	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08583778
M32390	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0983374

M32390	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.156666
M32390	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1500058
M32390	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12480258
M32390	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.101951
M32390	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1525554
M32390	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0919132
M32391	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.0879879
M32391	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0808652
M32391	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0924838
M32398	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1295612
M32398	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.1162521
M32398	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1241457
M32398	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1383976
M32398	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.09966026
M32398	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0915852
M32398	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0894082
M32398	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1099304
M32398	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0884435
M32398	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0828652
M32398	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.15855333
M32398	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.16954344
M32398	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	0.11289132
M32401	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.10322574
M32401	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.10441881
M32401	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09290373
M32401	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1237636
M32401	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0849574
M32401	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1611623
M32401	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1173021
M32405	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0908751
M32405	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1205521
M32405	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08130778
M32405	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.077461
M32405	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08838131
M32405	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1428269
M32405	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.106216
M32405	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1469542
M32405	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25737453
M32405	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1645966
M32405	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1571666
M32405	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.10773
M32405	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1832741
M32413	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.32163619
M32413	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.1993329
M32413	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2159092
M32413	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2630806
M32413	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2630806
M32413	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.25159014
M32413	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2630806
M32413	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2014091

M32413	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.2734449
M32413	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.2630806
M32413	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2508746
M32413	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.30844929
M32413	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.2734046
M32413	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.2631038
M32413	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.2601802
M32413	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2159092
M32413	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.2767001
M32413	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.28800785
M32413	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.2953991
M32413	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.2734277
M32413	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.29062471
M32413	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2452852
M32413	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.2734277
M32413	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3610916
M32413	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.28265
M32413	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:1	0.26734002
M32413	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2593489
M32413	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2347698
M32413	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.2347698
M32413	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2630806
M32413	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.31319476
M32413	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.2198961
M32413	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.2734277
M32413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.27005833
M32413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	-0.1971479
M32413	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.2734277
M32413	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.2630806
M32413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacterales	0.27019999
M32413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.23129905
M32413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundus	-0.2347698
M32413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2523157
M32413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiohalobacteriales	-0.2492051
M32413	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2159092
M32413	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3028682
M32415	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1016424
M32415	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.08725588
M32415	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1011149
M32415	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.10892465
M32415	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.09235432
M32418	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.11103816
M32418	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.1031838
M32418	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.099629
M32418	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1095568
M32418	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1284271
M32418	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0987231
M32418	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1592261
M32425	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.2220301
M32425	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.21208217

M32425	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3149362
M32425	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.186791
M32425	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.4597959
M32425	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4672345
M32425	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.4217599
M32426	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.21085067
M32426	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.26109379
M32426	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.21839683
M32426	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2182245
M32426	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.23211163
M32426	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.27816198
M32426	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.244038
M32426	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.25461382
M32426	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.20724005
M32426	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.2693425
M32426	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.24606917
M32426	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantfr	0.27103042
M32426	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2214322
M32426	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2488285
M32426	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.21831638
M32426	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.26782679
M32445	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19041063
M32445	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	-0.1924693
M32445	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2694386
M32445	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.21675916
M32445	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.18467794
M32445	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1759613
M32445	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.179517
M32445	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.283669
M32445	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.24908519
M32445	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1955414
M32445	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2509718
M32445	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.17689002
M32445	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1687541
M32445	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1976091
M32445	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2096197
M32445	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2612658
M32445	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3162801
M32445	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2244951
M32445	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2231194
M32446	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.2000627
M32446	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1821581
M32446	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1751194
M32446	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3980313
M32446	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2189546
M32446	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2781092
M32446	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2044014
M32446	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1834988
M32446	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2292916
M32446	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.3647381

M32446	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1845839
M32446	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31130584
M32446	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.176035
M32446	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3441448
M32446	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.453093
M32446	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3149171
M32446	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2038921
M32453	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.26745566
M32453	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.21300689
M32453	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.206188
M32453	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.21300689
M32453	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.21300689
M32453	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.21178574
M32453	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadetales	0.21300689
M32453	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	0.22444627
M32453	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.21178529
M32453	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.19096641
M32453	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.21970331
M32453	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.26745566
M32453	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2163227
M32453	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.2054059
M32453	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.2117841
M32453	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.22595462
M32453	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.21178504
M32453	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.1983647
M32453	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.20514914
M32453	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.40594764
M32453	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	0.21904023
M32453	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.31397629
M32453	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.21178504
M32453	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales	0.22162268
M32453	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:1	-0.1955127
M32453	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.23522368
M32453	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.23522368
M32453	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.21300689
M32453	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.21178504
M32453	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.206918
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.25033544
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacter	0.25584165
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	0.21178615
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.21178504
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.2117841
M32453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	0.21300689
M32453	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobac	-0.2059969
M32453	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundus	0.23522368
M32453	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.21330071
M32453	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.35001204
M32453	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiohalobacter	0.22622277
M32453	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.26207195
M32453	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.26745566

M32455	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0793888
M32455	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0842104
M32455	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1014454
M32455	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1060526
M32455	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0886584
M32455	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.09037386
M32455	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1055635
M32455	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.081999
M32455	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1043628
M32455	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1065358
M32455	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0902592
M32455	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0820419
M32455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1262085
M32455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1448821
M32455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.082396
M32455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0839114
M32455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.l.84	-0.0921285
M32455	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1335222
M32455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0831905
M32455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1049532
M32455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1331614
M32455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1049199
M32455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08045418
M32455	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.083279
M32455	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1224999
M32455	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0898027
M32455	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1084891
M32457	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.28757242
M32457	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.30373878
M32457	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.21072354
M32457	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.20284871
M32457	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.l.84	0.25619001
M32457	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.25343745
M32457	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1992938
M32462	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2742962
M32462	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2723026
M32462	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.2771199
M32462	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2495673
M32462	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.214339
M32462	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2672434
M32462	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.2803283
M32462	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2851425
M32462	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2333414
M32462	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.2333414
M32462	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.2290557
M32462	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.2820889
M32462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2396297
M32462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2628425
M32462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.3483295
M32462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.l.84	-0.2775875

M32462	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2132416
M32462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.2333414
M32462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2087077
M32462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2788285
M32462	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.2634195
M32462	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2860146
M32462	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2740319
M32489	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.094157
M32489	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0934746
M32489	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0852417
M32489	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0867554
M32489	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.08663231
M32489	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1203675
M32489	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0821673
M32489	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0827202
M32489	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0841664
M32489	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.0862743
M32489	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1022834
M32489	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0875942
M32489	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0849474
M32492	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09008353
M32492	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12730508
M32492	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1162613
M32492	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.0980688
M32492	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.0980688
M32492	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0994176
M32492	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.0980688
M32504	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.0748196
M32504	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1026
M32504	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0810347
M32504	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11713375
M32504	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08804384
M32504	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2519294
M32504	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1589582
M32504	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.08274
M32504	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2143281
M32506	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.195506
M32506	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.20120648
M32506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2245339
M32506	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.20066436
M32506	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2220606
M32562	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3465283
M32562	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3730243
M32562	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3362605
M32562	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.3669167
M32599	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.20523765
M32599	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.33441771
M32599	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3020361
M32619	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2807098
M32619	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2564216

M32619	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.3170551
M32619	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	0.28076341
M32619	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.6158095
M32619	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.5063882
M32619	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verruco	-0.5617147
M32620	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	0.08657998
M32807	order	k_Bacteria.p_Bacteroidetes.c_Saprosirae.o_Saprosirales	0.18823232
M32807	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	0.23981317
M32807	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.20411022
M32807	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Bdellovi	0.18211138
M32807	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfo	-0.1812578
M32807	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.22428288
M32807	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.2128735
M32980	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_iii1.15	-0.1947443
M32980	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	0.21392903
M32980	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	-0.1950888
M32980	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatale:	-0.1946737
M32980	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_RF32	0.24582497
M32980	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Ellin6067	-0.1813199
M32980	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_IS.44	-0.212247
M32980	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MND1	-0.191743
M32980	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosor	-0.2126576
M32980	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocy	-0.2056722
M32980	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chror	-0.2358362
M32980	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.2111128
M32980	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Legio	-0.2105696
M32980	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Oceai	-0.2875075
M32980	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Thiot	-0.2106443
M32980	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.2289745
M32980	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	-0.2116339
M32980	order	k_Bacteria.p_Verrucomicrobia.c_Spartobacteria.o_Chthonioba	-0.2220711
M32984	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	-0.0875857
M32984	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.0977608
M32984	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.0844037
M32984	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.1460897
M32984	order	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales	-0.0935277
M32984	order	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	-0.0952739
M32984	order	k_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphingobact	0.12847935
M32984	order	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales	-0.0901376
M32984	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1493578
M32984	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales	-0.0939911
M32984	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MND1	-0.0844918
M32984	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfol	-0.0842577
M32984	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfo	-0.103344
M32984	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Aeror	-0.0923773
M32984	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1420445
M32984	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.16852597
M32984	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1438995
M32984	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.1326465
M32984	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1090684

M32984	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.1293176
M32984	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.1547461
M33013	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.1331978
M33013	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.08683766
M33013	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1225552
M33013	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.1244307
M33021	order	k_Bacteria.p_Bacteroidetes.c_Saprosirae.o_Saprosirales	-0.2428997
M33021	order	k_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphingobacteriia	-0.2174062
M33021	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	-0.2125254
M33021	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales	-0.1839384
M33021	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Caulobacteriales	-0.1696297
M33021	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodobacteriales	-0.1798218
M33021	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Bdellovibrionales	-0.2187329
M33021	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Myxococciales	-0.1993982
M33021	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enterobacteriales	0.24225001
M33021	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pasteurellales	-0.2865396
M33021	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	0.20574572
M33021	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	0.26094468
M33021	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	0.32691315
M33021	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	0.33731739
M33418	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Gaiellales	0.2242039
M33418	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales	0.36529077
M33418	order	k_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales	0.25705696
M33418	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacteres	0.27850677
M33418	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ellisiales	-0.2066325
M33418	order	k_Bacteria.p_Planctomycetes.c_OM190.o_agg27	0.2265529
M33418	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_Phycisphaerales	0.2265529
M33418	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatales	0.23360268
M33418	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomycetiales	-0.2114162
M33418	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodospirillales	0.25330283
M33418	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylobacteriales	-0.2187336
M33418	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrososphaerales	0.28404479
M33418	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.186188
M33418	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Thiobacteriales	0.20877002
M33418	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_BPC076	0.18579299
M33418	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardiobacteriales	0.20119914
M33418	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chlorobacteriales	-0.298969
M33418	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.2132334
M33418	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Mariprofundales	0.2265529
M33418	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Spirochaetales	0.29731438
M33418	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	-0.2314879
M33418	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_HA64	0.24962427
M33418	order	k_Bacteria.p_Verrucomicrobia.c_Pedosphaerae.o_Pedosphaerales	0.21592895
M33418	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_WCHB1.41	0.24394226
M33418	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	-0.187287
M33422	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.0859768
M33422	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.1583959
M33422	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	-0.0906026
M33422	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.07718656
M33422	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobacteriales	-0.1468391

M33422	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1440068
M33422	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09915031
M33422	order	k_Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0892465
M33442	order	k_Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0851643
M33442	order	k_Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.1080739
M33442	order	k_Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0945329
M33442	order	k_Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0837419
M33442	order	k_Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1275979
M33442	order	k_Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1635701
M33442	order	k_Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1446075
M33442	order	k_Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.0912663
M33442	order	k_Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.0873623
M33442	order	k_Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0921215
M33442	order	k_Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0837419
M33442	order	k_Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.1318673
M33442	order	k_Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.07864571
M33442	order	k_Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.088647
M33442	order	k_Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0822852
M33442	order	k_Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1071377
M33442	order	k_Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0803254
M33442	order	k_Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0785648
M33442	order	k_Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0986983
M33442	order	k_Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.0862992
M33442	order	k_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0981164
M33442	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.089538
M33442	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0822717
M33442	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0953854
M33442	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.132342
M33442	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0819576
M33442	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.0806328
M33442	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.127056
M33442	order	k_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0853663
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0755855
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0769718
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1573079
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0928893
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0789683
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11824414
M33442	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1303348
M33442	order	k_Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0837419
M33442	order	k_Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0891374
M33442	order	k_Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.117432
M33442	order	k_Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0807006
M33442	order	k_Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1168954
M33442	order	k_Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.083314
M33443	order	k_Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09912956
M33443	order	k_Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12716945
M33443	order	k_Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08353946
M33443	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.09055385
M33443	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.08135901

M33443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0905264
M33443	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08400345
M33443	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0917578
M33444	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09906077
M33444	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0927254
M33444	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1607304
M33447	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09517353
M33447	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08040168
M33447	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1059134
M33447	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08626425
M33447	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0890019
M33447	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1513648
M33447	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1460229
M33447	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1474677
M33471	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0849225
M33471	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10790373
M33471	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.13603751
M33471	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07977976
M33471	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0809111
M33471	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08402594
M33471	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1669502
M33471	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18491357
M33471	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1586621
M33471	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1051321
M33487	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11450047
M33487	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.0942312
M33487	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0897231
M33487	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.15865542
M33487	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08329652
M33587	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.08224
M33587	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0980768
M33934	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0956621
M33934	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0793665
M33934	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09569771
M33934	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1132183
M33934	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992669
M33934	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09826426
M33934	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1572888
M33934	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1015088
M33934	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1268808
M33935	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1001032
M33939	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10635136
M33939	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1287831
M33942	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09953518
M33942	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0916276
M33942	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1129639
M33942	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0851663
M33942	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08080564
M33942	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0858129
M33942	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1016179

M33943	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	0.09019423
M33943	order	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales	0.09637181
M33943	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1070484
M33943	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_Mycoplasmatales	-0.0890507
M33943	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.0829027
M33946	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.1079702
M33946	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.1300863
M33946	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.0843058
M33946	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.09252914
M33946	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.0923746
M33946	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1509095
M33946	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardi	-0.1009675
M33946	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chror	-0.0867405
M33946	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1794088
M33946	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.16599517
M33946	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.1552251
M33946	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.132942
M33946	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1572389
M33946	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.1401537
M33946	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verruco	-0.1585489
M33949	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Gaiellales	0.08945755
M33949	order	k_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales	0.10057636
M33949	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.12887449
M33949	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.09280346
M33949	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales	0.09494277
M33949	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Neisseria	0.14365189
M33949	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.10935703
M33949	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_Anaeroplasmatales	0.08591012
M33950	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.1381822
M33950	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.08352826
M33950	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.09735326
M33950	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1281443
M33950	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales	-0.0808789
M33950	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SC.I.84	-0.0985819
M33950	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.1362106
M33950	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.09834993
M33950	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Thiot	-0.1024679
M33950	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.0990063
M33950	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.0834589
M33950	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	-0.0969931
M33950	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	-0.0892325
M33953	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.1178365
M33953	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.1589454
M33953	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.1695848
M33953	order	k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales	0.10951427
M33953	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.1409229
M33953	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.0916505
M33953	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ell	-0.084838
M33953	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	-0.0863869
M33953	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.164117

M33953	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.0923341
M33953	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0905194
M33953	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0993465
M33953	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0951683
M33953	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1412048
M33953	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1231951
M33953	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1195922
M33953	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1679111
M33953	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1354253
M33953	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1361481
M33955	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1023575
M33955	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0874198
M33959	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.08242966
M33959	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.10776409
M33959	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.09596282
M33959	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11597793
M33959	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.0815265
M33959	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09328532
M33959	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.09063634
M33959	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0923366
M33959	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.10748013
M33961	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08571563
M33961	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.10672493
M33961	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.09447024
M33961	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10346594
M33965	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2525362
M33965	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2160981
M33965	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.21310471
M33965	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2565793
M33965	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.21905709
M33965	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.1845454
M33965	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.21827175
M33965	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1773635
M33967	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1074321
M33967	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0944081
M33967	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10464031
M33967	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0888769
M33967	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1086374
M33967	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1117174
M33967	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10701236
M33967	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0928958
M33967	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.08154158
M33968	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11272567
M33968	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09522224
M33968	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.10175818
M33968	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10009295
M33968	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1207179
M33969	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2083984
M33969	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3825465
M33969	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3917831

M33969	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3690426
M33971	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0970509
M33971	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0993454
M33971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.17402896
M33971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1329981
M33971	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1012816
M33971	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0805265
M33972	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.32320324
M33972	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2389694
M33972	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2077067
M33972	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.3623317
M33972	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2236735
M33972	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.34585751
M33972	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.28605595
M33972	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2692868
M33972	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1979424
M33972	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.20397164
M33972	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacteriales	0.20622032
M33972	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.2078089
M33972	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.22015407
M33972	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellisiales	-0.2262257
M33972	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2276775
M33972	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2386847
M33972	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.2386847
M33972	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.48858003
M33972	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2695579
M33972	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosomonadales	-0.3852419
M33972	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2434479
M33972	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2624287
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.3791342
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.3249479
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	-0.2386847
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR11	-0.2154859
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	0.30469691
M33972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	0.28834728
M33972	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2115531
M33972	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.32420438
M33972	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2530295
M33972	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.20401279
M33972	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.305933
M33972	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41	0.25328912
M33972	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3492526
M33972	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.35588453
M33972	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.35526124
M33973	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.20273565
M33973	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.23620264
M33973	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2182365
M33973	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3101718
M33973	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2088273
M33997	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.0928701

M33997	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.10097921
M33997	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.09594675
M33997	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.08588843
M33997	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0951213
M33997	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0846386
M33997	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0826629
M33997	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.1079702
M33997	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0928701
M33997	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.1038452
M33997	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.10037994
M33997	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1011164
M33997	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.086691
M33997	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1149409
M33997	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1046898
M33997	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.114188
M33997	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.111784
M33997	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.11898
M33997	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:	0.08607506
M33997	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1152246
M33997	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.09010566
M33997	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.08726385
M33997	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1157908
M33997	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.08318708
M33997	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1095692
M33997	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0917023
M33997	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1194804
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.08333246
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09865698
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1186417
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0909633
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1007003
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1081343
M33997	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0822931
M33997	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0928701
M33997	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1134783
M33997	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0936061
M33997	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1143419
M33997	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1149661
M33997	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1079439
M34035	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.15118813
M34035	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1065502
M34093	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10769057
M34093	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.10895885
M34093	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacterales	0.105331
M34093	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11762238
M34093	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0838133
M34381	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17148005
M34381	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.10166205
M34381	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1000783
M34381	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.14406

M34381	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	0.08830619
M34381	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08478341
M34381	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.17508
M34381	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09788759
M34381	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1201679
M34381	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1326072
M34381	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1129379
M34384	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1450806
M34384	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1047659
M34384	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11051001
M34384	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1252117
M34384	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0949975
M34384	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1453391
M34384	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10132623
M34384	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1055855
M34384	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1047221
M34384	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2088728
M34384	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1121213
M34384	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2123681
M34387	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.083035
M34387	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07948675
M34387	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08332722
M34387	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0932628
M34387	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.0882925
M34387	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.07901365
M34387	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.08609505
M34387	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08684039
M34387	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.07902333
M34389	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1908878
M34389	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.17611538
M34389	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.16853208
M34389	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3450075
M34389	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.25055538
M34389	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.17668898
M34389	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1965349
M34389	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3102011
M34389	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4232769
M34389	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2110081
M34389	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.296172
M34390	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.21561
M34390	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.17995816
M34390	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17744096
M34390	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1944654
M34390	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1990265
M34390	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2188441
M34390	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2719629
M34390	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2461699
M34391	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.3397812
M34391	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2046522
M34391	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3266031

M34391	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2299342
M34391	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2018035
M34391	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2333118
M34391	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2537407
M34393	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.23185532
M34393	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.19811848
M34393	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.19226878
M34393	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1801829
M34395	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2950096
M34395	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2322658
M34395	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2264573
M34395	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2189376
M34395	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.22670385
M34395	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2650159
M34395	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.2124003
M34395	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.2424364
M34395	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.232154
M34395	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.299219
M34395	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.23113919
M34395	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2331496
M34395	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2567367
M34395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.35331945
M34395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantfr	0.22210853
M34395	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.25962138
M34395	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.26804465
M34395	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2085158
M34396	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.11776986
M34396	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.09497852
M34396	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1128363
M34396	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1018183
M34396	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.10382884
M34396	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.09290326
M34396	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08681608
M34396	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1143312
M34398	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08035907
M34398	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09126673
M34398	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1729714
M34398	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1627101
M34398	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1343925
M34398	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	-0.127071
M34399	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1251792
M34399	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08518976
M34399	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1676533
M34399	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0842072
M34400	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0873175
M34400	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0963859
M34400	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08706209
M34400	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1670047
M34400	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0846123
M34400	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1399995

M34400	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1885293
M34400	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.0982274
M34401	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	-0.1932835
M34401	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	-0.2785356
M34401	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.1993416
M34401	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.3587252
M34401	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacte	-0.2208936
M34401	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.20871665
M34401	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.3162915
M34401	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.2259688
M34401	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.375844
M34401	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.3021961
M34401	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.2532484
M34404	order	k_Bacteria.p_Bacteroidetes.c_Saprosirae.o_Saprosirales	-0.1127498
M34404	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	-0.0956216
M34404	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	0.1179596
M34404	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardi	-0.0854877
M34404	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	0.11629403
M34404	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	0.11907436
M34404	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	0.08328734
M34404	order	k_Bacteria.p_Verrucomicrobia.c_Spartobacteria.o_Chthonioba	-0.0777987
M34409	order	k_Bacteria.p_Acidobacteria.c_Acidobacteriia.o_Acidobacteriale	-0.1966922
M34409	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	0.22525687
M34409	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.22029061
M34409	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobac	0.24813889
M34409	order	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	0.19399752
M34409	order	k_Bacteria.p_Caldithrix.c_KSB1.o_GW.22	-0.2153134
M34409	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.2004777
M34409	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.1966922
M34409	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	0.23680714
M34409	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacte	0.3337583
M34409	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.1836213
M34409	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ell	-0.2962033
M34409	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	-0.3156306
M34409	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatale:	0.18624271
M34409	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_BD7.3	-0.3071375
M34409	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionel	-0.2347607
M34409	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylo	-0.3668449
M34409	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosor	0.22102465
M34409	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.281763
M34409	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfol	-0.2005942
M34409	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_NB1.j	-0.3472156
M34409	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.27220671
M34409	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.3020942
M34409	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Ocea	-0.193039
M34409	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR1	-0.186532
M34409	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Vibric	-0.2274461
M34409	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Sphaerochaetales	-0.1966922
M34409	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	-0.3173415
M34409	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.334498

M34409	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2002101
M34409	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1899816
M34409	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2252924
M34409	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.2188423
M34409	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3352412
M34409	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3415884
M34409	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3449983
M34419	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2419756
M34419	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.2504095
M34419	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.29944101
M34419	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2369127
M34419	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2391073
M34419	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.24558525
M34419	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.35654908
M34419	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2205447
M34419	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.3881979
M34419	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.3372063
M34419	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.2681473
M34419	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.27156
M34419	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.3831452
M34419	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.25646938
M34419	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.3379298
M34419	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.3629991
M34419	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.4399567
M34419	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.2679634
M34419	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.3209131
M34419	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.25639726
M34419	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.3186671
M34419	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.3153379
M34419	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3093572
M34419	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.4793559
M34419	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2234869
M34419	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3016141
M34419	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.3723615
M34419	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.4660842
M34419	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.4809262
M34424	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0815239
M34437	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.1984195
M34437	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2153915
M34437	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2275369
M34437	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.1934489
M34437	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.2036739
M34437	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17912108
M34437	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.32506933
M34437	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.23692114
M34437	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.21788436
M34457	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.08023
M34457	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1368083
M34457	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08610691
M34457	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1118388

M34457	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1125139
M34457	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09909377
M35101	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1184391
M35101	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0840979
M35101	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.108249
M35101	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1236622
M35101	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.097786
M35101	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0932967
M35101	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.169437
M35101	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2038708
M35101	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1171145
M35101	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.088504
M35107	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0885733
M35107	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	-0.0927436
M35114	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1051232
M35114	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1220833
M35114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10458686
M35114	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0980794
M35114	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.102544
M35114	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1777119
M35126	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2044445
M35126	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.16430234
M35126	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.25740182
M35126	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.281165
M35126	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1921807
M35126	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseucl	0.18065741
M35126	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1926118
M35126	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1752717
M35136	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0835887
M35136	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0958027
M35136	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08133552
M35136	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1203914
M35136	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0904693
M35136	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0845695
M35136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0790075
M35136	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1184863
M35136	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0822645
M35136	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1221979
M35136	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0966725
M35136	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.082807
M35136	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0875892
M35136	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0867092
M35136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1217315
M35136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0793132
M35136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0833248
M35136	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12228182
M35136	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1176578
M35136	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1104885
M35136	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1475364
M35136	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1195736

M35157	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2114131
M35157	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.4588341
M35157	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1762328
M35157	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.256871
M35157	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1901157
M35157	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2492582
M35157	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.1782632
M35157	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1845469
M35157	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2274669
M35157	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2521276
M35157	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.234887
M35160	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.1779043
M35160	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.21959235
M35160	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.21087267
M35160	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.32877395
M35160	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.35096024
M35160	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22439906
M35160	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.25877661
M35160	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.33327022
M35160	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.19612124
M35160	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.3106937
M35160	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.27000378
M35160	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.18151991
M35160	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.28334247
M35160	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.28334247
M35160	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.25467137
M35160	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2454878
M35160	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.2395334
M35160	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.17412677
M35160	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.2678065
M35160	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.26374234
M35160	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.29477159
M35160	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.17542038
M35160	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.183897
M35160	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.28334247
M35160	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3081133
M35160	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.2452188
M35305	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.21803886
M35305	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.24401667
M35305	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21934703
M35305	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.22872338
M35305	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.1796103
M35305	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.20412862
M35305	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.21416461
M35305	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2126397
M35305	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3578472
M35434	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.168471
M35434	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.26398576
M35436	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.19115426
M35436	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17769117

M35437	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.27968189
M35437	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.26382336
M35437	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19632359
M35469	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1264709
M35469	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1103394
M35469	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0875973
M35482	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.2997326
M35482	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20383051
M35482	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3209228
M35482	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.354557
M35482	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4433343
M35482	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3238271
M35482	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	-0.2557362
M35625	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2117249
M35625	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1854407
M35625	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2169039
M35625	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1784324
M35625	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.1741075
M35625	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.35264616
M35625	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.40386371
M35625	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.18028837
M35625	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.255371
M35625	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.1997666
M35625	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.1942138
M35625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.201845
M35625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.3435147
M35625	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2402666
M35625	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	-0.3262103
M35628	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2069013
M35628	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.20473415
M35628	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.25469927
M35628	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.20857056
M35628	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.34443643
M35628	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.28861207
M35628	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.36533811
M35628	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.22498321
M35628	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.47464789
M35628	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.2418651
M35628	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.23884743
M35628	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.23884743
M35628	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.2528924
M35628	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2186022
M35628	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.27190725
M35628	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.32064485
M35628	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.27572453
M35628	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2969551
M35628	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.21805117
M35628	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2237499
M35628	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2129176
M35628	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2446388

M35628	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.253186
M35628	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.31514304
M35628	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2523462
M35628	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.23884743
M35628	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2781501
M35628	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.23964166
M35628	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.275118
M35628	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2400562
M35628	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.29542043
M35628	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2499875
M35628	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2547888
M35628	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2745986
M35630	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.07633614
M35630	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08897437
M35630	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08742304
M35630	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0792138
M35630	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0961673
M35630	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15193995
M35630	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.168694
M35631	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1635997
M35631	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemat	0.08192876
M35631	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08591916
M35631	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.10744855
M35631	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1019431
M35632	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2082567
M35632	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.29578558
M35632	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20895895
M35632	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19730363
M35632	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.34741397
M35632	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2335424
M35634	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2413716
M35634	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.19837
M35634	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2631454
M35634	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2677947
M35634	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2027266
M35634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1878239
M35634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1717593
M35634	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3176228
M35634	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46126364
M35634	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.241866
M35634	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1782147
M35634	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1861961
M35634	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1865249
M35634	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2631093
M35635	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09888809
M35635	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09059911
M35635	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09654318
M35635	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09007784
M35635	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11938599
M35635	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09373148

M35635	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0835313
M35635	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16788942
M35635	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1052071
M35635	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0866601
M35635	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1760142
M35637	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2216172
M35637	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2003747
M35637	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2678296
M35637	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3014474
M35639	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.19431729
M35639	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1890493
M35639	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.2016787
M35639	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2512284
M35651	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1148661
M35651	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.1198006
M35651	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0864686
M35651	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.14412309
M35651	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0864686
M35651	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.09542755
M35651	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0864686
M35651	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0929149
M35651	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0864686
M35651	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.09005
M35651	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0929167
M35651	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0912194
M35651	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0814954
M35651	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.1198006
M35651	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.12317561
M35651	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1079694
M35651	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.10300084
M35651	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09290036
M35651	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0929081
M35651	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.10173594
M35651	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0830382
M35651	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1174509
M35651	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0929081
M35651	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1009469
M35651	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	-0.1025644
M35651	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1171497
M35651	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nostocales	0.09215964
M35651	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1673149
M35651	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0864686
M35651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0929081
M35651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	-0.0926694
M35651	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.09431544
M35651	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1030321
M35651	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0929158
M35651	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0929081
M35651	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.09290036
M35651	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	-0.0864686

M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.09409847
M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0867866
M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.10296001
M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0968362
M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0844058
M35651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1177011
M35651	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1050736
M35651	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1198006
M35651	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1776187
M35651	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1211357
M35651	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1242717
M35651	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1701694
M35665	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.27037294
M35665	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.18252904
M35665	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.18991687
M35665	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25602296
M35665	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.20487315
M35665	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.19369584
M35665	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.27463398
M35665	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.20387697
M35665	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.20119302
M35665	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.18298842
M35665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.2261527
M35665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.25642186
M35665	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.1917518
M35665	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.25765218
M35665	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.25765218
M35665	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.20790977
M35665	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.22420242
M35665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.29272754
M35665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.17604881
M35665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.18779039
M35665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.19040356
M35665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.20537661
M35665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.2022138
M35665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.25765218
M35665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.20274215
M35665	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.19975713
M35665	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.18190788
M35665	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.21377516
M35669	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.28277297
M35669	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2233664
M35675	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.10298158
M35675	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.08399379
M35675	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.08969957
M35675	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09299783
M35675	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.0958075
M35675	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.08664427
M35675	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.09330538
M35678	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.08505

M35678	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0947755
M35678	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.097039
M35718	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07638409
M35718	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0911203
M35718	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.07643979
M35718	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08524501
M35718	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0717436
M35718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.0718939
M35718	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.223385
M35718	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.159908
M35718	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0761736
M35718	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2233287
M35879	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11403851
M35879	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10744541
M35879	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.11054044
M35892	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1150734
M35892	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.0867913
M35892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.0924951
M35892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	-0.1008706
M35892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.138515
M36103	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0980705
M36103	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0878535
M36103	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1363144
M36103	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.0908771
M36103	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.1257036
M36103	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0848611
M36103	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.07879768
M36103	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.10567694
M36103	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellisiales	-0.1056676
M36103	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1075293
M36103	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1573918
M36103	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.12869116
M36103	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1159439
M36103	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1086831
M36103	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0855561
M36103	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1200767
M36103	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.084032
M36103	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1011885
M36103	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.087205
M36103	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR11	-0.0934016
M36103	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.12799594
M36103	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1241143
M36103	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1246933
M36103	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.124079
M36103	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1392152
M36103	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1647336
M36103	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1357847
M36600	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.18103104
M36600	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.20395528
M36600	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.28136168

M36600	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.32412457
M36600	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.1801707
M36600	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.22224931
M36600	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.22224931
M36600	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.2133276
M36600	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1974962
M36600	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.23144188
M36600	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2298466
M36600	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.17973622
M36600	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2132638
M36600	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.20755363
M36600	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.254701
M36600	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.18815537
M36600	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.22224931
M36600	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2771107
M36600	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.21664796
M36600	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2014238
M36600	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2647047
M36600	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2938023
M36649	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17386436
M36649	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.17981736
M36649	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23056175
M36649	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.18172767
M36649	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.19407409
M36649	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.21375244
M36649	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.18450013
M36659	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.0771627
M36659	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1782709
M36659	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.08716
M36659	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.08262983
M36659	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09219483
M36659	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0932538
M36659	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1065985
M36659	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1640395
M36659	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1941291
M36659	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0962889
M36713	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08759668
M36713	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07690998
M36713	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09537284
M36713	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.1381768
M36713	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1036439
M36713	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.13092882
M36713	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2154485
M36738	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09969224
M36738	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.08495446
M36738	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0827231
M36738	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08212391
M36738	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0871686
M36738	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0775369
M36746	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10566218

M36746	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09103296
M36746	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11738354
M36746	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1052007
M36747	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08622327
M36747	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12848172
M36747	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08310259
M36747	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.23250756
M36747	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0946932
M36747	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0879648
M36747	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12120774
M36747	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.1021405
M36747	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1269072
M36747	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.080689
M36749	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0900891
M36749	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.1123034
M36749	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1345445
M36749	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.11201
M36749	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.09393037
M36749	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1031002
M36749	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0849306
M36749	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.08283393
M36749	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1093591
M36749	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0844987
M36749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1053422
M36749	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1896059
M36749	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.24068413
M36749	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.09713335
M36749	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.17611112
M36751	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.100621
M36751	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.13091764
M36751	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1241009
M36751	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1218451
M36751	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1503736
M36751	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0868425
M36751	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08484386
M36751	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1272632
M36751	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1410576
M36751	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1336335
M36752	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.093941
M36752	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0838901
M36752	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1418026
M36752	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1112986
M36752	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1242652
M36752	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13399534
M36752	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1175342
M36752	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1086236
M36752	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.132221
M36752	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0984352
M36754	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1029054
M36754	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0978862

M36754	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0837083
M36754	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07741186
M36754	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0820595
M36754	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0815213
M36754	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0977385
M36754	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0867494
M36754	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1086393
M36754	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.081771
M36754	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0874313
M36754	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0829249
M36754	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.11699776
M36754	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0885631
M36770	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.0866248
M36770	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.13419118
M36770	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08533872
M36808	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07628708
M36808	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12901681
M36808	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.0857648
M36808	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08145492
M36808	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacterales	0.08190966
M36808	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1498899
M36808	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.10628
M36808	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1697302
M36850	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.188558
M36850	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1788718
M36850	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.18016294
M36850	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.1926167
M36850	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.2056469
M36850	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.174268
M36850	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.184367
M36850	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1731897
M36850	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21308602
M36850	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1769662
M36850	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1778632
M36850	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1856587
M37058	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.22103
M37058	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.2098767
M37058	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.2163659
M37058	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2570003
M37058	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2383047
M37058	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2251085
M37058	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2299376
M37058	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.34845546
M37063	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1500263
M37063	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0816104
M37063	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09217053
M37063	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0840128
M37063	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1216137
M37063	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1245969
M37063	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1348412

M37069	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph:	0.07952496
M37069	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.092439
M37069	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.0783155
M37069	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.100611
M37069	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1004467
M37069	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.0861883
M37069	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1341
M37069	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.0948442
M37069	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.0948442
M37069	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0867186
M37069	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0828511
M37069	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0805255
M37069	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.0948442
M37069	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0911563
M37069	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1163091
M37069	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2179317
M37069	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1684576
M37069	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0958105
M37069	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1464676
M37070	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1234669
M37070	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10648994
M37070	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1049893
M37070	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18000291
M37076	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0809868
M37076	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0756267
M37076	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.09018094
M37076	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0756267
M37076	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.07753275
M37076	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0886818
M37076	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0756267
M37076	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1173153
M37076	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimc	-0.0756267
M37076	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.090915
M37076	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0813189
M37076	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0809868
M37076	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0804176
M37076	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.07986256
M37076	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0875282
M37076	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1054935
M37076	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.0949913
M37076	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0756267
M37076	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.0766767
M37076	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0756267
M37076	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.07686982
M37076	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0831941
M37076	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0904891
M37076	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0809868
M37076	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0846848
M37091	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.18768225
M37093	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0847725

M37093	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0959242
M37139	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2717836
M37139	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.28446016
M37139	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2734505
M37139	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.396853
M37139	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.2264714
M37139	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.30341542
M37139	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2522286
M37139	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2766157
M37139	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.3600333
M37139	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.2273146
M37139	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.223346
M37139	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.3723714
M37139	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.60436887
M37139	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2565336
M37139	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.2357391
M37139	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2823317
M37188	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1684725
M37188	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2308683
M37188	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.1679824
M37188	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1743887
M37188	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2641631
M37188	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2360166
M37188	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	-0.2065743
M37188	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1836628
M37188	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2957263
M37188	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.28284
M37191	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2537517
M37191	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.2162154
M37191	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.24142051
M37191	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	-0.1914767
M37191	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2162154
M37191	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.26978918
M37191	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1860832
M37191	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2087046
M37191	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1912625
M37191	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	-0.2112178
M37191	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1986664
M37191	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2240706
M37191	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	-0.2277706
M37191	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	-0.1970139
M37191	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2333207
M37191	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.1897567
M37191	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2162154
M37191	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22626144
M37191	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2279753
M37191	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.21509519
M37191	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2104122
M37196	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.27797837
M37196	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2682598

M37196	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5256881
M37196	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3959088
M37196	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2781055
M37196	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.4275143
M37199	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.20470619
M37202	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.31517214
M37202	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.26395484
M37202	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23544845
M37202	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3970037
M37202	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococcales	0.2065563
M37202	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.6115819
M37202	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.563292
M37202	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.256555
M37202	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.43686
M37203	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32904209
M37203	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	0.22486754
M37203	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.19527851
M37203	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.1915284
M37203	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.1935554
M37203	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3604276
M37203	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5606826
M37203	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.6190337
M37203	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.221408
M37203	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.4164068
M37207	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.18671544
M37207	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1835656
M37207	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1851372
M37207	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1675624
M37207	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3391421
M37207	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.2283769
M37207	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1912126
M37207	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.198227
M37207	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3249336
M37207	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2418859
M37207	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1916163
M37207	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2129591
M37207	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.23689
M37210	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.1806567
M37211	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.3043044
M37211	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2635766
M37211	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.23248311
M37211	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2479701
M37211	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2846337
M37211	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.2540347
M37211	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.3028767
M37211	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.8221945
M37211	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.6036464
M37211	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2600958
M37211	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.5122529
M37431	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1207355

M37431	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.07889721
M37431	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08183255
M37431	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.08501803
M37431	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1277814
M37431	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.08812733
M37431	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0908185
M37431	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.07920475
M37431	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1106367
M37431	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1613845
M37431	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1960907
M37431	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1162146
M37431	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0881906
M37432	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.23688771
M37432	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.19369081
M37432	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.27796069
M37432	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.17734777
M37432	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.268651
M37443	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1235175
M37443	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0876064
M37443	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.08463059
M37443	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0971721
M37443	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0876064
M37443	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.09240577
M37443	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.07913602
M37443	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08719585
M37443	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0880322
M37443	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0883363
M37443	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0846908
M37443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0819569
M37443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0794544
M37443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.08920478
M37443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10993292
M37443	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0915695
M37443	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0876064
M37443	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0864289
M37443	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0802485
M37443	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1025961
M37455	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0806571
M37455	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1151343
M37455	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	0.10025783
M37455	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10020744
M37455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.13101865
M37455	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.13724699
M37455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09587432
M37455	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.11228597
M37456	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2108181
M37456	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2200158
M37456	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2171974
M37456	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.20842837
M37456	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.19864383

M37456	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.1839054
M37458	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08160311
M37458	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08322335
M37458	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11427005
M37458	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0893974
M37458	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1063817
M37458	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1704881
M37458	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1209017
M37458	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1292153
M37465	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2163524
M37465	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.20652982
M37465	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.1790077
M37465	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1835573
M37465	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.19629927
M37465	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1790354
M37465	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2115593
M37465	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.18018731
M37465	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2934299
M37465	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.33135505
M37465	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2127176
M37465	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2148417
M37465	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1925982
M37496	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0842178
M37496	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.13827995
M37496	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13671931
M37496	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08255967
M37496	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.16084913
M37496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.08119583
M37496	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.07926269
M37496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.2099241
M37496	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.1070706
M37496	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1089944
M37496	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0893472
M37496	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1912375
M37501	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	0.09521496
M37501	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1171478
M37501	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	-0.0911397
M37501	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.08852829
M37501	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0775575
M37501	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	-0.0769903
M37501	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	-0.0798263
M37501	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.08227967
M37502	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0810352
M37502	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0846895
M37502	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0799187
M37502	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0824378
M37502	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0911141
M37502	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0813329
M37502	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0914212
M37502	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.08031497

M37502	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0817808
M37502	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1036742
M37502	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0902774
M37502	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.08027694
M37502	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.0805928
M37502	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.08905931
M37506	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10234781
M37506	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10575501
M37506	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.10840759
M37506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.16002095
M37506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08602333
M37506	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.11401996
M37506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10700431
M37508	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.20521327
M37508	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.25744085
M37508	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.20896196
M37508	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1996052
M37508	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.37742702
M37508	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.2447135
M37508	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.21911622
M37508	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.38764174
M37508	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.21099876
M37508	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2476628
M37508	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.2167017
M37508	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.23863194
M37508	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2187715
M37508	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.222511
M37508	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.272047
M37508	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.18495139
M37508	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.21723189
M37508	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.28094727
M37508	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.30430271
M37752	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.099044
M37752	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11804465
M37752	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0964362
M37752	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11924786
M37752	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0950452
M37752	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.126352
M37752	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1549755
M38102	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07607827
M38102	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09893344
M38102	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10882703
M38102	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.13891147
M38102	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0856231
M38102	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1789982
M38102	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10327011
M38102	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1176196
M38102	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1713415
M38105	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.226674
M38105	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.32548642

M38105	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1975219
M38109	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08096883
M38109	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1368187
M38109	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08362338
M38109	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0917805
M38109	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10787704
M38116	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.09663626
M38116	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.0967175
M38116	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.10125211
M38116	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0916475
M38116	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.1306355
M38116	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1464954
M38116	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1023007
M38116	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1006575
M38116	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08658053
M38116	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1268813
M38116	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1010495
M38116	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11552847
M38116	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1304041
M38116	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0962657
M38116	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1435818
M38116	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0989328
M38116	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1026661
M38116	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0960537
M38125	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.09126023
M38125	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.08405
M38125	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.08126675
M38125	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.08773567
M38125	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0947582
M38125	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07906053
M38125	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0765402
M38125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1026523
M38125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1310959
M38125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0839905
M38125	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0903659
M38125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08515005
M38125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1012626
M38125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.090985
M38125	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1009159
M38127	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.1688248
M38127	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.19930659
M38127	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2131545
M38127	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.1654241
M38127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22550507
M38127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19624887
M38127	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.26108125
M38127	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.18291281
M38127	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.17363596
M38165	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09153055
M38165	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10683948

M38165	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.10996328
M38165	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08094852
M38165	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.08357329
M38165	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14461675
M38165	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.07972715
M38165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09057869
M38165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19829605
M38165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09536811
M38165	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1395058
M38167	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobact	-0.2238888
M38167	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2535414
M38167	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3399792
M38167	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.218099
M38167	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.231885
M38167	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2203196
M38167	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2152031
M38167	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2631337
M38167	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5085679
M38167	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5563341
M38167	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2731322
M38167	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2385264
M38175	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.21869622
M38175	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.23847659
M38175	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingoc	0.19030088
M38183	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1549241
M38183	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1132997
M38271	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1443054
M38271	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.0855091
M38271	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0871184
M38271	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.1049408
M38271	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1157201
M38271	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.118331
M38271	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	-0.1040368
M38271	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0865043
M38271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1745834
M38271	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1413516
M38273	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08783583
M38273	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.14463112
M38273	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.10612191
M38273	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11102836
M38273	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14885717
M38273	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	0.09371143
M38273	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.09109975
M38273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1780283
M38273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09396667
M38273	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1130841
M38273	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1235786
M38273	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1770391
M38276	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09646252
M38276	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0860072

M38276	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0863361
M38276	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0987751
M38276	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.13268367
M38276	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0863417
M38276	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0893651
M38276	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0886285
M38276	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0822332
M38276	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0959226
M38276	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08990715
M38276	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.08635503
M38276	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.086347
M38276	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.10872197
M38276	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.094834
M38276	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.086347
M38276	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.0894423
M38276	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	-0.0894423
M38276	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetes	0.11106151
M38276	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.086347
M38276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.0867868
M38276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.1074252
M38276	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.0864554
M38276	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.0863389
M38276	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD141	-0.086347
M38276	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.08635503
M38276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.0943955
M38276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	-0.1193416
M38276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	-0.0894423
M38276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.15316752
M38276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	-0.0916992
M38276	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.109155
M38276	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.08925639
M38276	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1043512
M38288	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	0.2043699
M38288	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1980259
M38288	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.2093317
M38288	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.22928829
M38288	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2617993
M38293	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	0.09871065
M38293	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.10379147
M38293	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	-0.0939408
M38293	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.108461
M38293	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.09686132
M38293	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.08923816
M38293	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.0909259
M38293	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1633739
M38293	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.11478637
M38293	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.11929747
M38296	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1073212
M38296	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.083387
M38296	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	-0.106568

M38296	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.0878113
M38296	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.13812784
M38313	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.28570648
M38313	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2286778
M38313	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2054467
M38313	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.1974718
M38313	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1823068
M38313	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.1974718
M38313	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2080659
M38313	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1780596
M38313	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.1974718
M38313	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.3185634
M38313	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.1986665
M38313	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.3420175
M38313	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.1974718
M38313	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.1980212
M38313	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2276079
M38313	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.3124095
M38313	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.22817277
M38313	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.1986348
M38313	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.186843
M38313	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.2176005
M38313	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.1815895
M38313	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1804763
M38313	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.19867799
M38313	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales	-0.2120996
M38313	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.1986651
M38313	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.19955062
M38313	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.1986651
M38313	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2602191
M38313	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	-0.1838118
M38313	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nitrilobiales	0.18118395
M38313	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2450319
M38313	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2620805
M38313	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.2620805
M38313	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.1974718
M38313	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.3066544
M38313	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1827246
M38313	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.35480314
M38313	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.2209188
M38313	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.1986651
M38313	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.1713149
M38313	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2843323
M38313	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.19900206
M38313	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosomonadales	-0.2765785
M38313	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.202779
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2114865
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	-0.2328885
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	-0.1986502
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.1986651

M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.1766333
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.22658297
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.19867799
M38313	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1974718
M38313	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2318298
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.19899236
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2631163
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2481606
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1812018
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2620805
M38313	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2162971
M38313	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.2334321
M38313	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1830177
M38313	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.23171474
M38313	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.1966246
M38313	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2278868
M38313	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.28261955
M38313	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.21848525
M38395	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1437293
M38395	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1119046
M38395	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.08091594
M38395	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.08343193
M38395	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1013215
M38395	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1430019
M38395	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0855507
M38395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1009595
M38395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0909305
M38395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.07933083
M38395	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1308825
M38395	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1323467
M38395	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1625126
M38395	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1003601
M38395	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2133051
M38395	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0871581
M38395	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.079442
M38399	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1910422
M38399	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1239931
M38399	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1030445
M38399	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0841703
M38399	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1217123
M38399	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0960548
M38399	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1021162
M38399	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0808213
M38399	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0838876
M38399	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0862382
M38399	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.093409
M38399	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1947998
M38399	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.09613979
M38399	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.172619
M38399	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1985879

M38399	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1226375
M38399	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1812375
M38625	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.09420135
M38625	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07755492
M38625	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09430866
M38625	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11835248
M38625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.12201753
M38625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.10781904
M38625	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1462085
M38625	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1042833
M38625	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1480065
M38652	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.18527018
M38652	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.19067912
M38652	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	-0.1998654
M38652	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.2069137
M38654	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	0.21555379
M38654	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.24760787
M38654	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2715839
M38654	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.21555379
M38654	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	0.22918673
M38654	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.2272946
M38654	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.24471671
M38654	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.33672945
M38654	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.21872388
M38654	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.23931787
M38654	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	0.24909362
M38654	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.21385753
M38654	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.21555379
M38654	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.31344397
M38654	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.23881329
M38665	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0862559
M38665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.08595168
M38665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.1346368
M38667	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.23127124
M38667	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.2029391
M38667	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.22337632
M38667	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.22185478
M38667	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.23370547
M38667	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteureales	0.29326733
M38667	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.22780943
M38667	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3825603
M38667	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.24265055
M38667	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthoniobacterales	0.23861189
M38672	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10881718
M38672	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08843849
M38672	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0975251
M38672	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1037599
M38672	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1044964
M38672	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.09868872
M38696	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.0935088

M38696	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08532769
M38696	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0980799
M38696	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.09166212
M38749	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1458966
M38749	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1301383
M38749	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09157873
M38749	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1371541
M38749	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08679414
M38749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1149763
M38749	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.08419622
M38749	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08691492
M38768	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08240145
M38768	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0901731
M38768	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1048854
M38768	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0946121
M38768	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1162923
M38768	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.12942888
M38768	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.089913
M38768	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.12825824
M38768	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.185665
M38768	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.09209686
M38768	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.1525026
M38768	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.12990643
M39270	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2680113
M39270	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2114849
M39270	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.34108668
M39270	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2114849
M39270	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.3073103
M39270	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2114849
M39270	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2114849
M39270	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.29007615
M39270	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.2177621
M39270	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2930021
M39270	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.3123182
M39270	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2680113
M39270	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.2338714
M39270	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.25410822
M39270	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.264982
M39270	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2932732
M39270	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.3023782
M39270	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3267972
M39270	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteral	-0.2239714
M39270	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:	0.22681131
M39270	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2114849
M39270	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2902275
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3317661
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2585713
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.22658568
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2485465
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.25231863

M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.3865378
M39270	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.2118924
M39270	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2684908
M39270	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.3410642
M39270	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2114849
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.22722202
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2112521
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.37974318
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2398222
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea1	-0.2806221
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2160707
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.2183436
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.260632
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3460764
M39270	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2479719
M39270	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2680113
M39270	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.24419979
M39270	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.4139583
M39270	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.3101797
M39270	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.3117918
M39270	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2286644
M39270	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3441343
M39270	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.386155
M39271	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08559783
M39271	order	k__Bacteria.p__Cyanobacteria.c__4COd.2.o__YS2	0.10696933
M39271	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.123055
M39271	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1068078
M39271	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	0.11292539
M39271	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.12009303
M39271	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0894641
M39271	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.0978745
M39271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.09132309
M39271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.10239786
M39271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0944617
M39271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08839723
M39271	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.087055
M39271	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1206948
M39271	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1073322
M39379	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.4170642
M39379	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1937611
M39379	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.18163789
M39379	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46182692
M39583	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.1099548
M39583	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09203563
M39583	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10170383
M39583	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1047553
M39583	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.142569
M39583	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1475152
M39583	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1610956
M39587	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0970868

M39587	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09419368
M39587	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0801054
M39587	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.0834288
M39587	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.08148642
M39587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08150069
M39587	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09491706
M39587	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.0844766
M39587	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.0874127
M39587	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.08546991
M39587	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco:	-0.1243961
M39592	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22671875
M39592	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3053702
M39592	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.2015006
M39592	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1860326
M39592	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2653348
M39592	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1916884
M39592	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco:	-0.234193
M39598	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.1840937
M39598	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.1891997
M39598	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2307561
M39598	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1931837
M39598	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2252962
M39598	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2356433
M39598	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer:	0.17339888
M39626	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0822744
M39626	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1079105
M39626	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0910734
M39626	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1351499
M39626	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08421347
M39626	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1311838
M39630	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2755935
M39630	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1688248
M39630	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2560714
M39630	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1775916
M39630	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1846389
M39630	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1956018
M39630	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.19943636
M39630	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2152333
M39630	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2075252
M39630	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2192437
M39630	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2059143
M39630	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2129634
M39777	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.20362252
M39777	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	-0.2867364
M39777	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2098954
M39777	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.28022779
M39788	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0809773
M39788	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.083339
M39788	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0911376
M39788	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0989837

M39788	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0817373
M39788	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0842904
M39788	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.0908907
M39788	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1149056
M39994	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1179742
M39994	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08280876
M39994	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1276466
M39994	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0877635
M39994	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0960672
M40006	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.24943674
M40006	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.19695849
M40007	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0880078
M40008	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1687974
M40008	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1221841
M40008	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0903341
M40008	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1301125
M40008	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1427506
M40010	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1006995
M40010	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0902598
M40020	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	0.19292895
M40020	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1922972
M40020	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.20622636
M40020	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.21392367
M40040	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29234386
M40040	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.23462722
M40040	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.23308101
M40040	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.20497837
M40040	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30792225
M40040	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24010097
M40040	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17379219
M40040	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.31083097
M40040	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.21210693
M40040	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.27954114
M40040	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.17314738
M40040	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20210643
M40040	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.18838595
M40040	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.24298712
M40040	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.21794286
M40040	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.21904305
M40045	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08250362
M40045	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1152867
M40045	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	0.08908993
M40045	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08871713
M40045	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09563119
M40045	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0897866
M40045	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1082158
M40084	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.07541553
M40084	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09991937
M40084	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.13208537
M40084	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.09389852

M40084	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.09381107
M40084	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0796786
M40097	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10500838
M40097	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11812299
M40097	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13397268
M40097	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1011124
M40173	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0764937
M40173	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0904681
M40173	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1082885
M40173	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09635875
M40173	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0788146
M40173	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0791655
M40173	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.085633
M40406	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteri	-0.0910258
M40406	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08298792
M40406	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09529809
M40406	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12710684
M40406	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09588062
M40406	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10949817
M40406	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0806323
M40406	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.093597
M40406	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0839622
M40406	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0863027
M40406	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0952175
M40406	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.0890196
M40406	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0916778
M40406	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1049959
M40406	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15105828
M40406	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.125294
M40406	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0928275
M40406	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0920336
M40406	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1180085
M40406	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0857629
M40410	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteri	-0.1065553
M40410	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0939297
M40410	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0822758
M40410	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.107182
M40410	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0948941
M40410	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1669737
M40410	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0955804
M40410	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.112201
M40410	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0894461
M40410	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1139668
M40410	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12552406
M40410	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0783648
M40410	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1090812
M40410	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1921988
M40410	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1878071
M40410	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1524498
M40452	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0975211

M40452	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	-0.1378987
M40452	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhizobi	-0.0841521
M40452	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodob	-0.0807834
M40452	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Burkholc	0.08487223
M40452	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfo	0.07874298
M40452	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	-0.1417116
M40452	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Spirochaetales	0.08662855
M40464	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.2492215
M40464	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Turicibacterales	0.20902599
M40464	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	-0.2308026
M40464	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	0.26488562
M40464	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales	0.17552878
M40464	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	0.21805745
M40464	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	0.42145788
M40464	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	0.3644447
M40464	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	0.17705942
M40473	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	0.22637037
M40473	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_iii1.15	-0.2320185
M40473	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.2717841
M40473	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Gaiellales	-0.3116081
M40473	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubroba	-0.4874842
M40473	order	k_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales	-0.4532263
M40473	order	k_Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriale	-0.3608815
M40473	order	k_Bacteria.p_Deferribacteres.c_Deferribacteres.o_Deferribacte	-0.5392432
M40473	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_OPB54	-0.2746403
M40473	order	k_Bacteria.p_Planctomycetes.c_OM190.o_agg27	-0.4076647
M40473	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_Phycisphaera	-0.4076647
M40473	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatale:	-0.2302934
M40473	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomyci	0.40489445
M40473	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodos	-0.4505688
M40473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylo	0.28059513
M40473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosor	-0.2967438
M40473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Thiobact	-0.2650288
M40473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_BPC076	-0.323522
M40473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Alterc	-0.4263027
M40473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Marir	-0.4076647
M40473	order	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales	-0.3783625
M40473	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	0.30914134
M40473	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_HA64	-0.2771663
M40473	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	0.24849444
M40473	order	k_Bacteria.p_Verrucomicrobia.c_Pedosphaerae.o_Pedosphaer	-0.3915084
M40473	order	k_Bacteria.p_Verrucomicrobia.c_Verruco.5.o_WCHB1.41	-0.3092712
M40473	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verruco	0.2806969
M40473	order	k_Bacteria.p_WS3.c_PRR.12.o_PBS.III.9	0.25271785
M40475	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_iii1.15	0.08587692
M40475	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.162917
M40475	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	0.09422064
M40475	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Ellin6067	0.08694638
M40479	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	0.10428162
M40479	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1400681

M40479	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.0794266
M40479	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1326316
M40479	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10234877
M40479	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1540572
M40479	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2180569
M40479	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1745492
M40479	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0797479
M40481	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0818855
M40481	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08661752
M40481	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11469979
M40481	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gε	0.08399164
M40481	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08286385
M40481	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.07982171
M40481	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15074071
M40481	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1040487
M40481	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1026096
M40499	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.17457456
M40499	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.18533106
M40499	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.19409701
M40499	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.20355925
M40499	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16570837
M40506	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2800677
M40506	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.17500824
M40506	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.17761527
M40506	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.18575519
M40506	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.21439514
M40506	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1801678
M40506	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1793818
M40506	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gε	-0.1854731
M40506	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3291365
M40506	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.228344
M40506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	-0.1752516
M40506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2555428
M40506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.19570289
M40506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1917244
M40506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1723596
M40506	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.253819
M40506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1733324
M40506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.20561655
M40506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2212825
M40506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2226099
M40506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1884386
M40506	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2170053
M40506	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2732013
M40506	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3844653
M40506	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.1991998
M40506	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2848606
M40506	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2476564
M40700	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.07945143
M40700	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10380307

M40700	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0994623
M40703	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2291749
M40703	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.29150529
M40703	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1927901
M40703	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.25955493
M40703	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.18854959
M40703	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.25922906
M40703	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.21452947
M40703	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.35938701
M40703	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23886196
M40703	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2072207
M40730	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0946611
M40730	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08902851
M40730	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.10103386
M40730	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08374934
M40730	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0860626
M40730	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0836361
M40730	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.08592394
M40730	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.112775
M40730	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.100092
M40730	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0807255
M40732	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.18331564
M40732	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2103914
M40732	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.3799211
M40732	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.1886537
M40732	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.3119105
M40732	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.3974951
M40732	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.1750153
M40732	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2368092
M40732	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.188307
M40732	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.1723457
M40732	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.3794792
M40732	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25016224
M40732	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.2340304
M40732	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1834994
M40732	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.3441307
M40732	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2160734
M40732	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.34105
M40732	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2123072
M40732	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2006658
M40732	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.3320794
M40732	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22278838
M40732	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.31474027
M40732	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.25278761
M40732	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.3579976
M40732	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.2658417
M40732	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.23820793
M40732	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2080238
M40732	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.18059107
M40732	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.2139044

M41370	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.10555025
M41370	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1014655
M41370	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.0959163
M41370	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09547295
M41370	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.l.84	0.08568637
M41370	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09151344
M41374	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0914714
M41374	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1444456
M41374	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0838617
M41515	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08289219
M41515	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1107672
M41515	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09138957
M41515	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.15211
M41515	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0875436
M41515	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1346836
M41515	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0885949
M41515	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1283944
M41609	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.18812286
M41609	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.19369215
M41609	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23138742
M41609	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.18744735
M41888	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09227165
M41888	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12469241
M41888	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08187911
M41888	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08860625
M41888	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.10617917
M41888	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08065484
M41888	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1013204
M42027	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.18952379
M42027	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.2007107
M42027	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.26474381
M42027	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.22134081
M42027	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.29752369
M42027	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.26797562
M42027	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.19677606
M42027	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.27665329
M42027	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.27665329
M42027	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.19688849
M42027	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.20485105
M42027	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.20690933
M42027	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.26559212
M42027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.21704212
M42027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.27665329
M42079	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.0981917
M42079	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1073945
M42079	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09837369
M42079	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08153578
M42081	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2683391
M42081	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2830209
M42081	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2060634

M42081	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.32930658
M42081	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.22829022
M42081	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.5141578
M42081	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2310081
M42081	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.2181917
M42081	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2500693
M42081	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.197459
M42081	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2060634
M42081	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.33438304
M42081	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.195661
M42081	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.19319011
M42081	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2597617
M42081	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3599365
M42081	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.2170002
M42081	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.19810667
M42081	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3391617
M42081	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2546464
M42081	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.2286742
M42081	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1959801
M42081	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2194378
M42081	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.3152592
M42081	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.18712163
M42081	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.2009804
M42081	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.229586
M42081	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2851024
M42081	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2438842
M42081	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2911286
M42081	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.25099109
M42081	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2009227
M42081	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3653232
M42081	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2060634
M42081	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.211231
M42081	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2759703
M42081	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2756727
M42081	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2962876
M42081	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2924418
M42081	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	-0.2165873
M42081	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3095528
M42081	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2387431
M42092	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.20394202
M42092	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.18137513
M42092	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.21595949
M42092	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20113429
M42092	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1789695
M42092	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.20121401
M42092	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.17255259
M42094	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.21353814
M42094	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19481142
M42094	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.189292
M42094	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.1899894

M42094	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.25283955
M42109	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.09012297
M42109	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.11435139
M42370	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10818052
M42370	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1207423
M42374	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	-0.1194692
M42374	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0860508
M42374	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10004966
M42374	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0930856
M42374	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0852974
M42395	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1610855
M42395	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1227245
M42395	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	-0.111411
M42395	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0899816
M42395	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1097606
M42395	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0799821
M42395	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1081595
M42395	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1020777
M42395	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.1199564
M42395	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.1073184
M42395	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0929101
M42395	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1021336
M42395	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0908309
M42395	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0878532
M42395	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1813679
M42395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0804003
M42395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0777974
M42395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0976777
M42395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.0837734
M42395	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.084191
M42395	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.0952483
M42398	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.10784358
M42398	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0941821
M42398	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1059807
M42398	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0985071
M42398	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.12814889
M42398	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.12398677
M42398	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11678161
M42398	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08980811
M42398	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.10552638
M42398	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.16677361
M42398	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.0933771
M42420	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0936315
M42420	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12800823
M42420	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1207581
M42420	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0898618
M42420	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0852751
M42420	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1062711
M42420	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0928067
M42420	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0886059

M42420	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1122195
M42420	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0959726
M42420	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1628668
M42420	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18097957
M42420	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.094329
M42420	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1561487
M42420	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.1142999
M42420	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0948605
M42420	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1047706
M42420	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0975302
M42420	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.126676
M42420	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1129331
M42420	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1143948
M42449	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.27244702
M42449	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.21697136
M42449	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.20318253
M42449	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.28407906
M42449	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.20754171
M42449	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2176571
M42449	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.3323091
M42449	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.36351186
M42449	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.21700642
M42449	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.21475195
M42449	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.2070133
M42449	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2172744
M42449	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.22022881
M42449	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.3422962
M42449	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1983981
M42449	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3454647
M42449	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2592703
M42449	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.22738846
M42449	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2963051
M42449	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2309417
M42449	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2846622
M42489	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1160399
M42489	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0825269
M42489	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1061525
M42489	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1118573
M42489	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08959849
M42489	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0835393
M42489	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0837027
M42489	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1001808
M42489	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1051094
M42489	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1447439
M42489	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1362871
M42489	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1416256
M42489	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0893974
M42971	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08474948
M42971	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.10299771
M42971	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.09865053

M42971	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0880476
M42971	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1158275
M42971	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08858695
M42971	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.1056463
M42971	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1251218
M42971	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0930354
M42971	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09308737
M42971	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.0910065
M42971	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1158147
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.107061
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1352703
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.09507916
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1185266
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0941998
M42971	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10192482
M42971	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1291711
M42971	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.10093695
M42975	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.190816
M42975	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.222863
M42975	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1771287
M42975	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.43034373
M42975	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1966433
M42975	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1915527
M42975	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2169903
M42975	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.230797
M42975	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32308912
M42975	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22148896
M42975	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.2251657
M42978	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10797857
M42978	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.10447144
M42978	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1130873
M42978	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.0994122
M42978	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.1065838
M42978	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09783244
M42978	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.08151066
M42978	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.111448
M42978	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.12150234
M42978	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.16890962
M42989	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.19911129
M42989	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2267955
M42989	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	-0.1893316
M42989	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2769828
M42989	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.18582965
M42989	order	k__Bacteria.p__Chlamydiae.c__Chlamydia.o__Chlamydiales	0.23066889
M42989	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.19703349
M42989	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2563716
M42989	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2154775
M42989	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	0.17192816
M42989	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobactera	0.18842993
M42989	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22136792

M42989	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.22429163
M42989	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.2421239
M42989	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1937258
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.20275279
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.24234764
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.18361861
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.1808378
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.19647487
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.21071519
M42989	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.18487945
M42989	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.21249886
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.24955482
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.236462
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.29013583
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17147924
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.1953748
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.24155473
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.23227816
M42989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.18212288
M42989	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2062627
M42989	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.24039553
M42989	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.22509399
M42989	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.27097654
M42989	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.20718703
M42989	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.20125182
M42993	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2400719
M42993	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.17239715
M42993	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.186063
M42993	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2253949
M42993	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1680976
M42993	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18646461
M42993	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1719312
M42993	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.249333
M42993	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.2746082
M42994	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23650709
M42994	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30188664
M42994	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.3051391
M42994	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.29265548
M42999	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4259443
M42999	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23034601
M42999	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2003454
M42999	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.235452
M43023	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1491949
M43023	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0838179
M43023	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.0952683
M43023	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0916211
M43023	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0913197
M43023	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1127657
M43023	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.103839
M43023	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1336674

M43023	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.138696
M43023	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.15017995
M43026	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0908616
M43026	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0970841
M43026	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08658717
M43026	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.0797575
M43026	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.08391996
M43027	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0808987
M43027	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0955542
M43027	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0806386
M43027	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.123607
M43027	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.0787769
M43027	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0820824
M43027	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	-0.0838875
M43027	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.09853074
M43027	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales	-0.0853303
M43027	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1278952
M43027	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0772457
M43027	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0995358
M43027	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin6067	-0.1141592
M43027	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1124036
M43027	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.0945523
M43027	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.0945523
M43027	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.10046616
M43027	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.0838521
M43027	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.085488
M43027	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1167022
M43027	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	-0.0851979
M43027	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1502649
M43027	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	-0.094156
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	-0.0901127
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1292581
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1034214
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.0837422
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	-0.0945523
M43027	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR11	-0.082119
M43027	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1070917
M43027	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.084588
M43027	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerales	-0.077446
M43028	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0881402
M43028	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09856598
M43028	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.08669191
M43028	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.08758649
M43028	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09750617
M43028	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.09465313
M43028	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	0.08444873
M43028	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.09341923
M43028	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.09365315
M43028	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1166547
M43231	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.10273451

M43231	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0930022
M43231	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.10111815
M43231	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.095659
M43231	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1392986
M43231	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1025249
M43231	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0870295
M43231	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1112731
M43231	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0850893
M43231	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.1027522
M43231	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08942651
M43231	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0937106
M43231	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1056769
M43231	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1151666
M43249	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.08178826
M43249	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0870282
M43249	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1386335
M43249	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.10011163
M43249	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1024161
M43249	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0810191
M43249	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1232973
M43249	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0842158
M43249	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1259477
M43249	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1146374
M43249	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0815663
M43249	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16368454
M43249	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.155715
M43249	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0932031
M43249	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1300848
M43249	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0901667
M43249	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1856087
M43255	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2090309
M43255	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.24027721
M43255	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.20596703
M43255	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.29222192
M43255	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.1840442
M43255	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23376662
M43255	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.18615869
M43255	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.18673802
M43255	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2366928
M43255	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.22460391
M43255	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.21714627
M43255	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.24957959
M43255	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1904746
M43255	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.24185787
M43255	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1818822
M43255	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	0.21115055
M43255	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.24761928
M43255	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.23917724
M43256	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.2842903
M43256	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.1963527

M43256	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.1963527
M43256	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.21035978
M43256	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2844418
M43256	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.1963527
M43256	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2881849
M43256	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.212888
M43256	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.1963527
M43256	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.2076328
M43256	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.27850551
M43256	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.2128518
M43256	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.2286945
M43256	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.235404
M43256	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.21866518
M43256	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale:	0.2129002
M43256	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.232189
M43256	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.2128851
M43256	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.25041445
M43256	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.2172306
M43256	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.2592067
M43256	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.2128851
M43256	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2078677
M43256	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.290143
M43256	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.2195765
M43256	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:	0.20779022
M43256	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.1960981
M43256	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.1960981
M43256	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.1963527
M43256	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.27883177
M43256	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.2128851
M43256	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.20587197
M43256	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2371821
M43256	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.1880695
M43256	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2128699
M43256	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14|	-0.2128851
M43256	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.2129002
M43256	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1963527
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.20571856
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2098415
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.20774608
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1977839
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2117519
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.1960981
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1|	-0.2398711
M43256	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.2365391
M43256	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2280769
M43256	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.19111054
M43256	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.2851104
M43258	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0905425
M43258	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1204742
M43258	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10624398

M43258	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.0867377
M43258	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.0997451
M43258	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.0774901
M43258	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Vibric	-0.0826778
M43258	order	k_Bacteria.p_Thermi.c_Deinococci.o_Deinococcales	-0.0965601
M43258	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucom	-0.0993362
M43374	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.1007982
M43374	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	-0.1002637
M43374	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales	-0.1335544
M43374	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	-0.0948057
M43374	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	-0.0835222
M43374	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	0.08404005
M43392	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	-0.2208533
M43392	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	-0.2522389
M43392	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_Elusimicrobiales	0.1830362
M43392	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	0.23138852
M43392	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Gemmatale:	-0.2327167
M43392	order	k_Bacteria.p_Planctomycetes.c_Planctomycetia.o_Planctomyci	0.27813608
M43392	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Nitrosos	-0.2526695
M43392	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_NB1.j	0.22434046
M43392	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Legio	-0.3466896
M43392	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Vibric	0.23569742
M43392	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Xantfr	0.22854983
M43392	order	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales	-0.3208908
M43392	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	0.30528933
M43392	order	k_Bacteria.p_Thermi.c_Deinococci.o_Deinococcales	0.21291397
M43392	order	k_Bacteria.p_Verrucomicrobia.c_Verruco.5.o_WCHB1.41	0.3595559
M43392	order	k_Bacteria.p_WS3.c_PRR.12.o_PBS.III.9	0.26669721
M43392	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	0.28647429
M43400	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	0.13056671
M43400	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.088532
M43400	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.09597087
M43400	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.0960513
M43400	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylo	-0.1084598
M43400	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocy	-0.0901521
M43400	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.08788214
M43400	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pseuc	0.08918137
M43400	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.0857816
M43412	order	k_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphingobact	-0.0856267
M43412	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.09697596
M43412	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	-0.0854186
M43449	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	0.14285302
M43449	order	k_Archaea.p_Euryarchaeota.c_Thermoplasmata.o_E2	0.1090074
M43449	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	0.14419686
M43449	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylo	0.09363162
M43449	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chror	0.08939315
M43449	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Pseuc	0.08037427
M43449	order	k_Bacteria.p_Synergistetes.c_Synergistia.o_Synergistales	0.20734
M43449	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	0.11316861
M43449	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	0.10824644

M43449	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.10940685
M43449	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.14365542
M43493	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1067237
M43493	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0976192
M43493	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.0787916
M43493	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.0836538
M43493	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	-0.0899032
M43493	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0913017
M43493	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0957487
M43496	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.2805401
M43496	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.3136995
M43506	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1092841
M43506	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11662396
M43506	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1299819
M43506	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1493883
M43506	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0873425
M43506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0980831
M43506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0860959
M43506	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.11458573
M43506	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.093008
M43506	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0918572
M43506	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1113131
M43507	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.098595
M43507	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.0880497
M43507	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0906041
M43507	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12655525
M43507	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0925933
M43507	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.10420909
M43507	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.098561
M43507	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.12223334
M43507	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.12892746
M43507	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.107687
M43530	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0761996
M43530	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.08798251
M43530	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08796181
M43530	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.10518645
M43530	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1597492
M43530	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.07738225
M43530	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1005119
M43530	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1397789
M43530	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1724447
M43530	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1167188
M43530	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1219191
M43535	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.29087394
M43535	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.34475949
M43535	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.25159302
M43535	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.30585604
M43535	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.301153
M43535	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.25986913
M43535	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales	0.42711847

M43535	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.25478075
M43535	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.35408858
M43535	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.31859984
M43535	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerae	0.25113575
M43535	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.28911248
M43535	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.40109359
M43535	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.4050848
M43586	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.3190445
M43586	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.2787437
M43586	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	-0.2463505
M43586	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2502643
M43586	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.27567913
M43586	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2420177
M43586	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2714099
M43586	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2276191
M43586	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2528772
M43586	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	-0.2528772
M43586	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.2888611
M43586	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2748885
M43586	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3709743
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.2904756
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.4027253
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2528772
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2403823
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3942748
M43586	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2489879
M43586	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2989526
M43586	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2740443
M43586	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.3602213
M43591	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.21132094
M43591	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.20959603
M43591	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.22265126
M43591	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.23301773
M43591	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2277378
M43591	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.194576
M43591	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2324448
M43761	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.3716241
M43761	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2607933
M43761	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.306126
M43761	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2486021
M43761	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.3384687
M43761	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.38534921
M43761	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2486021
M43761	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2486021
M43761	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.2335501
M43761	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	-0.2486021
M43761	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.261151
M43761	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.3431774
M43761	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.2336012
M43761	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.2897853

M43761	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.306126
M43761	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.38525332
M43761	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.23356698
M43761	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2738313
M43761	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.2623603
M43761	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.2335709
M43761	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2726973
M43761	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.2335709
M43761	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.3902737
M43761	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2393596
M43761	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.3168009
M43761	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3190335
M43761	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2543255
M43761	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2678441
M43761	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.2678441
M43761	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2486021
M43761	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.3173161
M43761	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2733912
M43761	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.254724
M43761	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.2335709
M43761	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.3036952
M43761	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2490957
M43761	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.2529407
M43761	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3006047
M43761	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.3478123
M43761	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.4044194
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.3381951
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2852837
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3676933
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2335757
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14l	-0.2335709
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.3673273
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2979839
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.23356698
M43761	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2486021
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2475173
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2430119
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.2678441
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1l	-0.2653169
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.394472
M43761	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2845619
M43761	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.306126
M43761	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3287539
M43761	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2897267
M43761	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2636675
M43761	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.3886281
M43761	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.2939667
M43761	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.3016122
M43761	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3047476
M43761	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2905025

M43802	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.28264427
M43802	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.18482611
M43802	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.22877668
M43802	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.21351309
M43802	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	0.22270976
M43802	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23555502
M43802	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.18912351
M43802	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.21428594
M43802	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.24320149
M43802	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.18700803
M43802	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.26591326
M43802	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.2096257
M43802	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.28223178
M43802	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.25201752
M43807	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11609097
M43807	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.12536102
M43807	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.09021777
M43807	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09960394
M43807	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10722543
M43807	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10259376
M43807	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.13023954
M43807	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08368599
M43807	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1144622
M43829	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.22482144
M43829	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2263712
M43829	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.2294031
M43829	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.2228782
M43830	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.33126197
M43830	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.26508961
M43830	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.35884779
M43830	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.20155852
M43830	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.41191453
M43830	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2319629
M43831	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18795943
M43831	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2228163
M43831	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.19020415
M43831	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.22264249
M43831	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.18763203
M43831	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29307719
M43831	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2801277
M43847	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.093261
M43847	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09490045
M43847	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.08563
M43847	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.109949
M43847	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1366332
M43847	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13819874
M43847	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.07887943
M44526	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1147528
M44526	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08193678
M44526	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0888133

M44526	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09597411
M44526	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0860981
M44577	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0887105
M44577	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1101185
M44577	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1064313
M44577	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.0982532
M44577	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1288412
M44621	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	0.21158777
M44621	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.17925745
M44621	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1921119
M44621	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2757185
M44621	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.18104102
M44621	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.177849
M44621	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.18566385
M44621	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.2656643
M44621	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1758777
M44621	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1900759
M44621	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.166836
M44621	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21851065
M44621	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1734594
M44621	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1790895
M44621	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.19462742
M44621	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1747208
M44644	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.21117429
M44644	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.19507095
M44644	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.22963898
M44644	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.19369372
M44644	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.21090637
M44644	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.22065068
M44644	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.19976919
M44644	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.19916811
M44644	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.18688228
M44644	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.22329262
M44644	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.18528295
M44644	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.36366944
M44644	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.2168038
M44644	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.214109
M44644	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.20460168
M44644	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.21761778
M44644	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2252728
M44656	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.08032187
M44656	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0895315
M44656	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0971534
M44656	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.09601014
M44663	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2379881
M44663	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1768381
M44663	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.38276871
M44663	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.20134692
M44675	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1200638
M44675	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09054594

M44675	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.11138793
M44675	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.1023505
M44675	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.09343395
M44675	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.2110563
M44675	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1261604
M44675	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucom	-0.1781449
M44681	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_RB41	0.232806
M44681	order	k_Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobac	-0.3371144
M44681	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	0.23355224
M44681	order	k_Bacteria.p_Chloroflexi.c_Chloroflexi.o_Roseiflexales	-0.2317018
M44681	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.25468877
M44681	order	k_Bacteria.p_Firmicutes.c_Erysipelotrichi.o_Erysipelotrichales	0.35478412
M44681	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ell	0.32489895
M44681	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	0.29242518
M44681	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.24443658
M44681	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2708725
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallione	0.26130786
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.25321495
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.23534217
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.32168155
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2038858
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.22926867
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.30910549
M44681	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.26037933
M44681	order	k_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.39430412
M44681	order	k_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.29381283
M44681	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.37190519
M44681	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2231066
M44681	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.39841182
M44681	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.28948089
M44681	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.23482061
M44681	order	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales	-0.2949273
M44681	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	0.33541484
M44681	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_Mycoplasmatales	-0.321141
M44681	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	0.30015796
M44681	order	k_Bacteria.p_Verrucomicrobia.c_Spartobacteria.o_Chthonioba	0.2262301
M44681	order	k_Bacteria.p_Verrucomicrobia.c_Verruco.5.o_WCHB1.41	-0.3025939
M44681	order	k_Bacteria.p_WS3.c_PRR.12.o_PBS.III.9	0.29828834
M44681	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	0.26399978
M44688	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	0.21350736
M44688	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.2622502
M44688	order	k_Bacteria.p_Cyanobacteria.c_4C0d.2.o_YS2	0.2476431
M44688	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24493425
M44688	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucom	-0.2507478
M44872	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriak	-0.1310861
M44872	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	-0.0898012
M44872	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.0910053
M44872	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.0977963
M44872	order	k_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1170647
M44872	order	k_Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0833633

M44872	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1264227
M44872	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10966752
M44872	order	k_Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1030186
M44876	order	k_Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1856926
M44876	order	k_Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.27008784
M44876	order	k_Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.2373246
M44876	order	k_Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1852297
M44876	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.19183279
M44876	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.29443455
M44876	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2193753
M44876	order	k_Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1938105
M44877	order	k_Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14352931
M44877	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.08395833
M44877	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseud	0.10923731
M44877	order	k_Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1029304
M44877	order	k_Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0934457
M44878	order	k_Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.20730929
M44878	order	k_Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.19988328
M44878	order	k_Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.27824206
M44878	order	k_Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.25724818
M44878	order	k_Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.2319013
M44878	order	k_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.417301
M44878	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2538538
M44878	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2280701
M44878	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2778012
M44878	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.184873
M44878	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.22795099
M44878	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.1979704
M44878	order	k_Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.2096799
M44878	order	k_Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.18319039
M45413	order	k_Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.3524931
M45413	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.27836336
M45413	order	k_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.33711531
M45428	order	k_Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1282989
M45428	order	k_Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.1018808
M45428	order	k_Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.086358
M45428	order	k_Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.1090182
M45428	order	k_Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0909807
M45428	order	k_Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.1033938
M45428	order	k_Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.1018808
M45428	order	k_Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08259118
M45428	order	k_Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0833917
M45428	order	k_Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0960559
M45428	order	k_Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.1332865
M45428	order	k_Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterale	-0.0864121
M45428	order	k_Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.0973748
M45428	order	k_Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0949678
M45428	order	k_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1040389
M45428	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.107191
M45428	order	k_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0980512

M45428	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.092313
M45428	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0851171
M45428	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1064979
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0956468
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0849437
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0938695
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0914961
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18640369
M45428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1171783
M45428	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1018808
M45428	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.0975624
M45428	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.1039837
M45428	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0865961
M45428	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.1021555
M45428	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0987075
M45434	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09657577
M45434	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1604598
M45434	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09656339
M45434	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	0.08633879
M45434	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1366271
M45434	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1414008
M45434	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1563153
M45434	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1343893
M45966	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.30480464
M45966	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.31988581
M45966	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.23509674
M45966	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.26999066
M45966	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.24029947
M45966	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.27150615
M45966	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.26009385
M45966	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.29051844
M45966	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.28474278
M45966	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2482647
M45968	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.22487933
M45968	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.31559309
M45968	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.26121026
M45968	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.16601779
M45968	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.23011887
M45968	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.16760247
M45968	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.19221723
M45968	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.17912559
M45968	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32945912
M45968	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.19721883
M45968	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.18972239
M45968	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2110671
M45970	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1150127
M45970	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11386945
M45970	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10329251
M45970	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.11102711
M45986	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09362411

M45986	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0918566
M45986	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.0919776
M45986	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1337216
M45986	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	-0.0825856
M45986	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.09584081
M45986	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.14109372
M45986	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.0848119
M45986	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.11590667
M46109	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.22633651
M46109	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.19694718
M46109	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1807593
M46109	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1979332
M46109	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.21803383
M46109	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18601483
M46109	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.1824074
M46142	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1057965
M46142	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19087584
M46144	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2287517
M46144	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2190151
M46144	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.2278526
M46144	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.18460461
M46144	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1869603
M46144	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19587015
M46144	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2361423
M46144	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2304555
M46144	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2276053
M46225	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.0796963
M46225	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09607355
M46225	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.09577642
M46225	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobac	-0.0907486
M46225	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.07901052
M46225	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09993611
M46225	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.08545713
M46225	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0816382
M46225	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.08543563
M46283	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1365703
M46283	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08407617
M46283	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1304468
M46285	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2336486
M46285	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.2028344
M46285	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1974111
M46285	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.18983364
M46285	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.18870674
M46285	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.22766171
M46285	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2571676
M46285	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2731407
M46285	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2024909
M46285	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2402869
M46285	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.404253
M46285	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1983812

M46285	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2085835
M46285	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2660619
M46336	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	0.10797502
M46336	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.0865135
M46336	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08782674
M46336	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.0963788
M46336	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.11082131
M46336	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	0.08865305
M46336	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.0862442
M46347	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.20889206
M46347	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.22131046
M46347	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1780922
M46347	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	0.18857523
M46347	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.1939852
M46347	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.1939852
M46347	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.23390356
M46347	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.1848885
M46347	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	-0.2081081
M46347	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.24798051
M46347	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.17819492
M46347	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales	0.20747825
M46347	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	0.17352791
M46347	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.30940275
M46347	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.1939852
M46347	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.2908804
M46355	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2243259
M46355	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.1909667
M46355	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2478577
M46355	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.23162623
M46355	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2294779
M46355	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.22792793
M46355	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.48073514
M46355	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2543643
M46355	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.255877
M46371	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.3516792
M46371	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.21399828
M46371	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3674591
M46371	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.2898149
M46371	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.37697549
M46371	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.351147
M46371	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2274292
M46371	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2896039
M46371	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2364845
M46398	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.228322
M46398	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	-0.3462576
M46398	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.22378744
M46398	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales	0.19546041
M46398	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.2112782
M46398	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2893832
M46398	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.271086

M46398	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.320581
M46398	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3359863
M46410	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1008343
M46410	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0866028
M46410	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1886063
M46410	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.078562
M46410	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0831867
M46410	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1023083
M46410	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.0736381
M46410	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1533116
M46410	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1076664
M46410	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1580608
M46410	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2302127
M46410	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1993671
M46455	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.18509182
M46455	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18145408
M46455	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.19525337
M46455	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.18933248
M46455	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2619314
M46455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.19884409
M46455	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.4889239
M46455	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4689586
M46455	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1859436
M46455	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2461896
M46463	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08681104
M46463	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0951794
M46463	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0973548
M46463	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0829313
M46473	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1994097
M46473	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.196058
M46487	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.2051436
M46487	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.28759543
M46487	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.25511726
M46487	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.24660766
M46487	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.30558603
M46487	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2946733
M46493	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11607522
M46493	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12968097
M46493	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14934192
M46493	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.078608
M46493	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10145745
M46493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09926361
M46493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.07541241
M46493	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09560312
M46493	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0856173
M46500	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.08724357
M46500	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09995052
M46500	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	0.08316176
M46500	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.13533793
M46500	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08225038

M46500	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09749296
M46500	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.10310945
M46500	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.09575735
M46500	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1048173
M46500	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1739669
M46500	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1157834
M46515	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.32284096
M46515	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.19386606
M46515	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.19319583
M46515	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.18835527
M46515	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3783201
M46515	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5561075
M46515	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.6053939
M46515	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3683303
M46517	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.1708262
M46517	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.19846388
M46517	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.18522068
M46517	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.22669014
M46517	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.1733239
M46517	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.1720145
M46517	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.23902166
M46517	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.17684716
M46517	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.23184255
M46517	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.30766304
M46517	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.18415147
M46517	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.17761221
M46537	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.14196831
M46537	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0796317
M46537	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0800826
M46537	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0999449
M46537	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11836329
M46537	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0851109
M46537	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1114419
M46539	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0831059
M46539	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0800494
M46539	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0907079
M46539	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11758028
M46539	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0863389
M46539	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0994193
M46539	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08091203
M46539	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.10952745
M46539	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.0798457
M46539	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.089212
M46597	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.08462501
M46597	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1677893
M46597	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12292843
M46597	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.119146
M46597	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1329514
M46597	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0906071
M46597	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1545164

M46599	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.26237079
M46599	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.26893386
M46599	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22566135
M46599	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2736256
M46599	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5445842
M46599	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4957005
M46599	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.2118133
M46599	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5331132
M46604	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.21579902
M46604	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.19819141
M46604	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.2103285
M46604	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.22451732
M46604	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1766569
M46604	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1870317
M46604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.17841147
M46604	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.26526543
M46619	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0767776
M46619	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0937046
M46619	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.0778889
M46619	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0797646
M46619	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0822224
M46619	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.080906
M46619	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.0860513
M46619	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0799909
M46619	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.086731
M46619	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0873233
M46619	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.0875452
M46619	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0851599
M46619	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0874418
M46619	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.081228
M46619	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1245695
M46619	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0802947
M46619	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0769991
M46619	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0759765
M46619	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0865197
M46619	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1021929
M46619	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.08523101
M46619	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.155175
M46619	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1812
M46619	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0930714
M46619	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2265555
M46632	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0993154
M46632	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1050259
M46632	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1040251
M46632	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1137679
M46632	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1157122
M46632	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0811625
M46646	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.0866249
M46646	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0845138
M46646	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1069251

M46646	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.108909
M46661	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaera	-0.2061925
M46661	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	0.19040393
M46661	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.3467819
M46661	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2689476
M46661	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	-0.189146
M46661	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.17999962
M46661	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.2555365
M46661	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.18057578
M46661	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	0.19156755
M46661	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2233281
M46661	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.17996996
M46661	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.16655033
M46661	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2881915
M46661	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.1804616
M46661	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycidae.o__Nostocales	-0.1799611
M46661	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.18178139
M46661	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.17997254
M46661	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.2018372
M46661	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17141191
M46661	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.23801519
M46661	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	0.29703401
M46661	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.17997254
M46661	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	0.24797607
M46661	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.22392392
M46661	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin6067	0.27103148
M46661	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	0.2395077
M46661	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nitrilase	-0.1796732
M46661	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.2272343
M46661	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.20364088
M46661	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.17997254
M46661	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum rubrum	-0.2156424
M46661	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	0.18824806
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.17173177
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2410255
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionella	0.1785223
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.1784615
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacterium	0.32171565
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosomonas	-0.2155348
M46661	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.29611623
M46661	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterium	0.28712988
M46661	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheca	0.17998428
M46661	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.17997254
M46661	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.20478202
M46661	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirobacter	-0.1799611
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacillus	-0.1784382
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacter	0.22214438
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatium	0.30486845
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.1879129
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.26236569

M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.2416898
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.34344526
M46661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	0.17934314
M46661	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1888626
M46661	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.23902543
M46661	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.33481088
M46661	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.19602808
M46661	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.30591423
M46661	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.2041191
M46677	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.17339361
M46677	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.219362
M46677	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.18653008
M46677	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.25268047
M46677	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2258148
M46677	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.18743247
M46677	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.36086351
M46677	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.19331644
M46677	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.1740017
M46677	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.25978278
M46677	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.22483881
M46677	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	0.20361856
M46677	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.211349
M46677	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.30024652
M46677	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.30024652
M46677	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.20764802
M46677	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.23017797
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M46677	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.27321443
M46677	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.26200372
M46677	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.25399285
M46677	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.26647084
M46677	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.30024652
M46677	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2323296
M46677	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2003877
M46677	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.25393157
M46677	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.33331459
M46689	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1273942
M46689	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1326507
M46689	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0969518
M46689	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1198621
M46689	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15883325
M46689	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.108202
M46689	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0884186
M46705	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1143189
M46705	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.08639422
M46705	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0849493
M46705	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08758028
M46705	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0961174
M46705	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1092608
M46705	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08469578

M46706	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.20443168
M46706	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.4264917
M46706	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3616857
M46706	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2239131
M46706	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.20904266
M46706	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2094609
M46707	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.0940997
M46707	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.09017032
M46707	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.10037206
M46707	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1240825
M46707	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1677041
M46707	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.09509578
M46707	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.08743013
M46738	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0969251
M46738	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.0921963
M46738	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1297402
M46740	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08807987
M46740	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.15168888
M46740	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0863436
M46740	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.07764397
M46740	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08141223
M46740	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0886441
M46740	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0759762
M46740	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0949101
M46798	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.24798878
M46798	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2122195
M46798	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.19268022
M46798	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.2329697
M46798	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2898354
M46798	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3118545
M46799	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.13250802
M46799	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.0894922
M46799	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.07933063
M46799	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob:	0.08580862
M46799	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.10290549
M46799	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0883644
M46799	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1324664
M46898	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1126667
M46898	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12200219
M46898	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10514911
M46898	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Eli	-0.0826119
M46898	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0950273
M46898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.079911
M46898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0902253
M46898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17280662
M46898	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1065475
M46960	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0770238
M46960	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0931962
M46960	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1036731
M46960	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.07839245

M46960	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.07810076
M46960	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.086125
M46960	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1522358
M46960	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.077788
M46960	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1022415
M46960	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16907839
M46960	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0891125
M46960	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1530048
M46960	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0915382
M46960	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1195613
M46964	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.30072641
M46964	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.24584794
M46964	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2553503
M46972	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1237807
M46972	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08184505
M46972	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.10660538
M46972	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.07656879
M46972	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gc	0.08419616
M46972	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.07695147
M46972	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.07834318
M46972	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08968067
M46972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09882104
M46972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.09670893
M46972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.0860618
M46972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.09448344
M46972	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.0790114
M46989	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.1914054
M46989	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23847643
M46989	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.29172485
M46989	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.23030558
M46989	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2448382
M46989	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2255728
M47089	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1233251
M47089	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.089218
M47089	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0976882
M47089	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2627985
M47089	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0915757
M47089	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.088024
M47101	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09471526
M47101	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0833634
M47101	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1131439
M47101	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992825
M47101	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0997381
M47113	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.1709181
M47113	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.23127469
M47113	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2493803
M47113	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.3034212
M47123	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0998262
M47123	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.087325
M47123	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1422296

M47183	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1167132
M47183	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1251704
M47183	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.0895926
M47183	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0939271
M47183	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0847323
M47183	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1026197
M47194	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1058153
M47194	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1309313
M47194	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0919498
M47194	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1076153
M47194	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1459873
M47194	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0918448
M47194	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0896566
M47194	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1297692
M47194	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0847746
M47195	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.111862
M47195	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1497825
M47195	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0938403
M47195	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0836651
M47195	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0793632
M47195	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0888285
M47195	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0969815
M47195	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1113863
M47195	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0980239
M47195	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.11219
M47195	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.125908
M47196	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1454983
M47196	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1325732
M47196	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08660917
M47196	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0859518
M47196	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1286474
M47196	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1235869
M47197	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1441809
M47197	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1195324
M47197	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0981191
M47197	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10092687
M47197	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0844239
M47197	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.10356382
M47197	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1433238
M47197	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0901224
M47197	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1182597
M47197	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1488276
M47197	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0905021
M47203	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1055745
M47203	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11089496
M47203	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0830072
M47203	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.07666889
M47203	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1227847
M47203	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.076658
M47203	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910759

M47203	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13768371
M47203	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1348404
M47203	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1464596
M47203	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2345644
M47203	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0786805
M47203	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1927161
M47204	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0945709
M47204	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.09181253
M47204	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.0775551
M47204	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11198222
M47204	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0797444
M47204	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08988313
M47204	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09018558
M47204	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1157059
M47204	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chlorobacteriales	-0.0995313
M47204	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0746794
M47204	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13592175
M47204	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1245613
M47204	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.124282
M47204	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2025727
M47204	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1774606
M47205	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.1994646
M47205	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2326502
M47205	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.21882092
M47205	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	-0.1962068
M47205	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2101447
M47205	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.1784755
M47205	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.1873636
M47205	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2482113
M47205	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3242753
M47205	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4198133
M47205	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1809356
M47205	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2177681
M47205	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.3875524
M47211	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	-0.1961365
M47211	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.24344265
M47211	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.20652426
M47211	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2046955
M47217	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.10065191
M47217	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08759023
M47217	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.07857753
M47217	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	0.09271809
M47217	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.08741497
M47217	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0997722
M47217	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0888783
M47218	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1195549
M47218	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.09203868
M47218	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.088807
M47218	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.09084596
M47218	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09295714

M47218	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09722759
M47218	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09794661
M47218	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.088851
M47218	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.07761166
M47218	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.08406402
M47218	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1082289
M47218	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1282994
M47218	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15945316
M47218	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1156783
M47218	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0743196
M47218	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1593153
M47218	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1295689
M47218	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1094854
M47219	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.117088
M47219	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.089727
M47222	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.17523914
M47222	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2380018
M47223	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0796585
M47223	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1091189
M47223	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0836887
M47223	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1203507
M47223	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1251138
M47224	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0757359
M47224	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08761282
M47224	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08033234
M47224	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09506046
M47224	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0749967
M47224	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1205522
M47224	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1189001
M47226	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.0874375
M47226	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1035706
M47227	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1135773
M47227	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0901837
M47227	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0998925
M47227	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.09286977
M47227	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1295886
M47227	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0918408
M47227	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1407207
M47227	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0998151
M47227	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1058647
M47227	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1016936
M47227	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1553554
M47230	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0947934
M47230	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1395574
M47230	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11243217
M47230	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.092849
M47230	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.08587861
M47230	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0856659
M47230	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0882791
M47230	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0891856

M47231	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08785322
M47231	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0808676
M47231	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.08985402
M47231	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.10280349
M47233	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0846915
M47233	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10212692
M47233	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0912602
M47237	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2390034
M47237	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.3756137
M47237	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2197438
M47237	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2217301
M47237	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.2154645
M47237	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2651315
M47237	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.2061077
M47237	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.2247609
M47239	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0856231
M47239	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.07991649
M47239	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0822269
M47247	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0841319
M47247	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1056518
M47247	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.16459158
M47247	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1336308
M47247	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.08830047
M47247	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16506842
M47247	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1392302
M47247	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1165076
M47247	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.14619
M47254	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.28143005
M47254	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2691122
M47254	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.22048686
M47254	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.22885222
M47254	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.20387857
M47254	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.31228697
M47254	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetes	-0.2917107
M47254	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.32100672
M47254	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.29792471
M47254	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.2178177
M47254	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2478927
M47254	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.280957
M47254	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2408193
M47254	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.22818754
M47254	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.271762
M47254	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2973215
M47254	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2438992
M47255	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1071177
M47255	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1126345
M47255	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1417957
M47259	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1884512
M47259	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.1915998
M47259	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1919948

M47259	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.2097321
M47259	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyce	-0.2086559
M47259	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.18261871
M47259	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.20025397
M47259	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2207383
M47259	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1812797
M47259	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2445322
M47259	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1757001
M47259	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2426014
M47259	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2461591
M47261	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2503454
M47261	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.18532624
M47261	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2247071
M47261	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.21121839
M47261	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.225633
M47261	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.184604
M47261	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1993923
M47261	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2862215
M47261	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1925502
M47261	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1796588
M47261	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2250315
M47261	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2286946
M47261	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1953136
M47261	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.21228527
M47261	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2139339
M47261	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.2496397
M47261	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3080783
M47261	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1998787
M47261	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3063528
M47261	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2211224
M47263	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.2131839
M47263	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2095808
M47263	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1760035
M47263	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.17670597
M47263	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2568371
M47263	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.28770652
M47263	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	0.17400084
M47263	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.22037562
M47263	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatiale	-0.1939724
M47263	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.28401742
M47263	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1989464
M47263	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2167046
M47263	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.2419289
M47263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.3705069
M47263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17714204
M47263	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.3167214
M47263	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.27526875
M47263	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1802167
M47263	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.24619241
M47263	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1836879

M47265	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1046905
M47265	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1414189
M47265	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11589854
M47265	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09286795
M47265	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11145242
M47265	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.08968397
M47265	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1392475
M47265	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.1308074
M47265	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1784051
M47265	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.24194003
M47265	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1425968
M47265	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1092928
M47265	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2026821
M47265	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1025319
M47265	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.1911523
M47266	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1135377
M47266	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1064023
M47266	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.0829123
M47266	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1014918
M47266	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.094155
M47266	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1002473
M47266	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0852785
M47266	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0972398
M47266	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1359361
M47267	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.129229
M47267	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1315445
M47267	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0898046
M47267	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.1062334
M47267	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1090039
M47267	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1433133
M47268	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	0.09980402
M47268	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09778374
M47268	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales	0.09923934
M47268	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0933448
M47268	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.11306104
M47268	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.10548267
M47268	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.0876406
M47268	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.14325463
M47268	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	0.160037
M47275	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0836862
M47276	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.0878773
M47276	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.10254527
M47276	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1028567
M47276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.08165406
M47276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.09283868
M47276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0881854
M47276	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonadales	-0.0839186
M47276	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1440356
M47276	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1348825
M47277	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.0960831

M47277	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1304562
M47277	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.09078608
M47277	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0988643
M47277	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.0904474
M47280	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1165852
M47280	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1045783
M47280	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.08434287
M47280	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0876793
M47280	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.08534207
M47280	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1074985
M47280	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.0939835
M47283	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.09133706
M47283	order	k__Bacteria.p__Cyanobacteria.c__4COd.2.o__YS2	0.1482615
M47283	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0786523
M47283	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.14022035
M47283	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.09627972
M47283	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.09627972
M47283	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09500835
M47283	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11899249
M47283	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.11162456
M47283	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.09627972
M47283	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11339809
M47283	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.09212397
M47283	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.09790748
M47283	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09255876
M47291	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0837308
M47291	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09384626
M47291	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1916504
M47291	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0827095
M47291	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1504434
M47291	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0867508
M47291	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1483694
M47291	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1640463
M47291	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1414526
M47298	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.439065
M47298	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2372526
M47298	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.26933227
M47298	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.26854271
M47298	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2786833
M47298	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3119172
M47298	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2544194
M47298	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2511319
M47298	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.3770053
M47298	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.2384683
M47298	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2559045
M47298	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.2691707
M47298	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3506353
M47298	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2353424
M47298	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2737479
M47298	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	-0.2358501

M47298	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2810008
M47298	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3128896
M47307	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1454143
M47307	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0824323
M47307	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1280712
M47307	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1345595
M47307	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0917011
M47307	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0902013
M47307	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1119012
M47307	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1234446
M47307	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1629489
M47308	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.20763687
M47308	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.27929512
M47308	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.1827383
M47308	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.198728
M47308	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2503549
M47316	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0929946
M47316	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1229826
M47316	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.140808
M47316	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1105215
M47316	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1230975
M47316	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1385788
M47316	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0874661
M47316	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1830191
M47317	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1282269
M47317	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0921254
M47317	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.092188
M47317	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1241647
M47317	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0989385
M47317	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1075491
M47317	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0928648
M47317	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1046992
M47320	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09473037
M47320	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1254344
M47320	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.0864046
M47323	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1394778
M47323	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1372836
M47323	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0885063
M47323	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08665774
M47323	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1154156
M47323	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.104801
M47323	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.09939662
M47323	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.079514
M47323	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.1081751
M47328	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1205653
M47328	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1089959
M47328	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campi	-0.0853629
M47328	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0936181
M47328	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0850969
M47328	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1328555

M47330	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1740398
M47330	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.1936165
M47330	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.25147919
M47335	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.24441623
M47335	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1723591
M47335	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.22790392
M47335	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.20229576
M47335	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.24953224
M47335	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.16647996
M47335	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.26790842
M47335	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.18152653
M47335	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.18152653
M47335	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.26511379
M47335	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.21656726
M47335	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.2477265
M47335	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.1869666
M47335	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.16759135
M47335	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20169027
M47335	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.26904199
M47335	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.1741217
M47335	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.1986555
M47335	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.18152653
M47335	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2012352
M47335	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2205051
M47335	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.18138259
M47335	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.238054
M47335	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1883067
M47337	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.09081668
M47337	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08612079
M47337	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09386412
M47346	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.21335158
M47346	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2063454
M47346	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19080012
M47346	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2766038
M47346	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2667989
M47346	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2759306
M47347	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1910555
M47347	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1752131
M47347	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.22906149
M47347	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2387149
M47347	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2017005
M47352	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2077322
M47352	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.26385206
M47352	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2768391
M47352	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.21830983
M47352	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.28680177
M47352	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1951288
M47352	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3653619
M47352	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4617847
M47352	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2353507

M47352	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.5014386
M47353	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.11264781
M47353	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.09274227
M47353	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.10205196
M47353	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.0864286
M47353	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobact	0.0997411
M47353	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08733744
M47353	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.10537777
M47353	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.09142498
M47353	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0932258
M47353	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.16443003
M47353	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.12640754
M47353	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.12640754
M47353	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.09325251
M47353	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.13135492
M47353	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum rubrum	0.08779164
M47353	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia	0.11756883
M47353	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09066563
M47353	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.09382412
M47353	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonas	0.10317785
M47353	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundus	0.12640754
M47353	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.09725574
M47353	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.13538455
M47353	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1057857
M47353	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.09919398
M47353	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.08329796
M47353	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.09044473
M47353	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerae	0.11962169
M47353	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.13021331
M47358	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacterium	-0.312974
M47358	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.31391677
M47358	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.32384751
M47358	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.28112838
M47358	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.34965698
M47358	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turcibacterales	0.31548936
M47358	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.27651404
M47358	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.27651404
M47358	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.28557952
M47358	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.3633804
M47358	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacter	0.25162455
M47358	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.30413477
M47358	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosomonas	0.39733024
M47358	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.3039124
M47358	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2633827
M47358	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundus	0.27651404
M47358	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.27576494
M47358	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.282637
M47358	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.5537212
M47358	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.306301
M47358	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2891662

M47359	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2236278
M47359	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2196615
M47359	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22975749
M47359	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2618274
M47359	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.189696
M47359	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31554856
M47359	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2337134
M47359	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2264931
M47359	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2062606
M47380	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.07712111
M47380	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1025853
M47380	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.11837
M47380	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0881605
M47380	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09227739
M47380	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09177048
M47380	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.09009174
M47380	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0867696
M47380	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1310514
M47380	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0844183
M47380	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.110945
M47380	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12161451
M47380	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.07920344
M47380	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1205923
M47380	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1915115
M47380	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1434006
M47380	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0944004
M47381	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1893238
M47388	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0850594
M47388	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1555275
M47388	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1031763
M47388	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08271902
M47388	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14980747
M47388	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1217009
M47388	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0812389
M47388	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0843439
M47388	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19407286
M47388	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.096514
M47388	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1355681
M47388	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1385483
M47388	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1723218
M47391	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.102705
M47391	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0851833
M47391	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0832248
M47391	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1253644
M47391	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1341671
M47391	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1562757
M47391	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13891871
M47391	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1116332
M47391	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1008936
M47392	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2695779

M47392	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.238929
M47392	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2801305
M47392	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.2148069
M47392	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1974367
M47392	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1774873
M47392	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1697349
M47392	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3773318
M47392	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1704757
M47392	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3010948
M47431	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0920775
M47431	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1024304
M47431	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08287679
M47431	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1051876
M47431	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1198658
M47431	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0935018
M47437	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09828963
M47437	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.07714264
M47437	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.18807061
M47437	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.14200215
M47437	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.14898283
M47437	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.12562047
M47437	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0971786
M47437	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.1001505
M47437	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.07428971
M47437	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12907151
M47437	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.160646
M47437	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1047857
M47437	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1384932
M47439	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07983872
M47439	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11057334
M47439	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Eli	-0.0890375
M47439	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1221622
M47439	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0937216
M47439	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1014054
M47439	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1301824
M47439	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.147821
M47439	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.084139
M47439	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0970914
M47439	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0949168
M47497	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1960487
M47497	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2280615
M47497	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.22747424
M47497	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.24860928
M47497	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.28669
M47497	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2751633
M47497	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2359616
M47497	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.48442371
M47497	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2329035
M47545	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1362369
M47545	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0936189

M47545	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.0931979
M47545	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0880372
M47545	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1079322
M47545	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1131859
M47545	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1934089
M47545	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1049204
M47545	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.0782296
M47545	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1007481
M47545	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1087409
M47545	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0930221
M47545	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1084157
M47545	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0864965
M47545	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.1095507
M47545	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1461744
M47545	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0915194
M47545	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0925864
M47581	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0948867
M47619	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0895556
M47619	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1155287
M47619	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1537734
M47619	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1177741
M47619	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1307494
M47619	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.158101
M47619	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0949746
M47639	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2651997
M47639	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.23124258
M47639	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.23124275
M47639	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.5114383
M47639	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.234963
M47639	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2408513
M47639	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3029337
M47639	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.6807038
M47639	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5716422
M47639	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.4211772
M47639	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.23175976
M47639	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2378576
M47642	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.0820385
M47642	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.09200954
M47642	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.07934442
M47642	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0799625
M47642	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0875378
M47642	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0860708
M47642	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0921363
M47642	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0920887
M47642	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.1060379
M47642	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.1060379
M47642	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.13701657
M47642	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0974322
M47642	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1001948
M47642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0857364

M47642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.1119632
M47642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.1060379
M47642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1485251
M47642	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1363469
M47642	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1551443
M47642	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1190575
M47643	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2139716
M47643	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.22769072
M47643	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1962525
M47643	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.35094829
M47643	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3172692
M47643	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5559045
M47643	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucoi	-0.5150662
M47673	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.2151082
M47673	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2358961
M47673	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.2431852
M47675	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.18740371
M47685	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.09280586
M47685	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0885794
M47685	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.08772
M47685	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.121055
M47685	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1172614
M47685	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.086349
M47685	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.0838728
M47685	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0867872
M47685	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0889363
M47685	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.099368
M47685	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0868917
M47685	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.0904816
M47685	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0910108
M47685	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.09962028
M47685	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.120057
M47685	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0890425
M47685	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0968855
M47685	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0866074
M47685	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0863304
M47685	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0881739
M47686	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2115633
M47686	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2317641
M47686	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.225837
M47686	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3137624
M47686	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2110331
M47686	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1919904
M47686	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2206457
M47686	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2095232
M47686	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.1880292
M47686	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.1899872
M47686	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2456224
M47686	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.4101842
M47686	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2378217

M47686	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.281257
M47686	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.40176
M47687	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	0.09457384
M47687	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	0.10112701
M47687	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales	0.08599282
M47687	order	k_Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales	0.10359772
M47687	order	k_Bacteria.p_Lentisphaerae.c_Lentisphaeria.o_Victivallales	-0.1477691
M47687	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.14398328
M47687	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.0919641
M47687	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1249446
M47687	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Cerasicoccales	-0.1000867
M47687	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.0854953
M47695	order	k_Archaea.p_Crenarchaeota.c_Thaumarchaeota.o_Nitrososphaerae	0.19733575
M47695	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.2010554
M47695	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.2114071
M47695	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.2837945
M47695	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Methylobacteriales	-0.2561639
M47695	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.1920781
M47695	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardimicrobiales	-0.1976291
M47695	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chromatiales	-0.1941943
M47695	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR11	-0.18702
M47695	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.26065569
M47695	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Vibrionales	-0.2136
M47695	order	k_Bacteria.p_Thermi.c_Deinococci.o_Deinococcales	-0.2127629
M47695	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiae	-0.3152503
M47706	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Streptophyta	0.18375028
M47706	order	k_Bacteria.p_Spirochaetes.c_Brachyspirae.o_Brachyspirales	0.25283465
M47706	order	k_Bacteria.p_Tenericutes.c_Mollicutes.o_RF39	-0.3039299
M47706	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.2012926
M47709	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanobacteriales	-0.175648
M47709	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	-0.1621314
M47709	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_OPB54	-0.191935
M47709	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1911939
M47709	order	k_Bacteria.p_Proteobacteria.c_Epsilonproteobacteria.o_Campylobacteriales	-0.1741888
M47715	order	k_Archaea.p_Crenarchaeota.c_Thaumarchaeota.o_Nitrososphaerae	0.09688553
M47715	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_PK29	-0.0825537
M47715	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	-0.0825537
M47715	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.0888277
M47715	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomycetales	-0.1060679
M47715	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteriales	-0.0938381
M47715	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.0825537
M47715	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales	-0.1926342
M47715	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.0836303
M47715	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriimonadiales	-0.0825537
M47715	order	k_Bacteria.p_Chlamydiae.c_Chlamydiia.o_Chlamydiales	-0.0860196
M47715	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.0836336
M47715	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.0870224
M47715	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Chlorophyta	-0.0944595
M47715	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.08643
M47715	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocales	0.08362431

M47715	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0836281
M47715	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.0881288
M47715	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1064216
M47715	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.0874562
M47715	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0836281
M47715	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0975071
M47715	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.1009936
M47715	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.08439158
M47715	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0825537
M47715	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomy	0.09591239
M47715	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0836281
M47715	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.08054885
M47715	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1016277
M47715	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.083632
M47715	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0836281
M47715	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.08362431
M47715	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0825537
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.08089654
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.0814257
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0881772
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.144782
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0928745
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0982565
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1405826
M47715	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0816693
M47715	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1043646
M47715	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1332843
M47718	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2016511
M47718	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.17390158
M47718	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.2000404
M47718	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.16884111
M47718	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.18214345
M47718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.37224199
M47718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.24800061
M47718	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	0.17787904
M47718	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2421877
M47718	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1653433
M47787	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0947452
M47787	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0792467
M47787	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08790803
M47787	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0985798
M47787	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1052925
M47787	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1009381
M47787	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0902906
M47787	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.0912347
M47787	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1088845
M47787	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0959092
M47787	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.0952221
M47787	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.089724
M47787	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.0793016

M47787	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0947151
M47787	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0893891
M47787	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0881892
M47787	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.07784051
M47791	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1853987
M47791	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2697525
M47791	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1874255
M47800	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.07894292
M47800	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08667821
M47800	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09219392
M47800	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1543053
M47800	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.07741944
M47800	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1770178
M47800	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1382077
M47800	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.091007
M47800	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1405183
M47806	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08927858
M47806	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.07721456
M47806	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.07679932
M47806	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	0.09162522
M47806	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.08664332
M47806	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1095542
M47806	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0833995
M47806	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1032949
M47809	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.139464
M47809	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0951954
M47809	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0911173
M47809	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.090777
M47836	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.2165992
M47836	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1940894
M47898	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19007951
M47898	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.18502513
M47898	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2536606
M47898	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.25088314
M47898	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35085044
M47898	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2282768
M47898	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.21046437
M47898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.17569063
M47905	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18897173
M47905	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2139351
M47905	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.28563038
M47905	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.23997526
M47905	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.26390034
M47905	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.4406343
M47905	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2011077
M47905	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2184759
M47905	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.26244833
M47905	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.2024276
M47905	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2715238
M47905	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3581113

M47905	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4964287
M47905	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2872315
M47905	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2784855
M47954	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.20565678
M47954	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2053195
M47954	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.237858
M47954	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2046584
M47954	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.2025354
M47954	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2046584
M47954	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2046584
M47954	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.1997844
M47954	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.2146739
M47954	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.2046584
M47954	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.1999371
M47954	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.20433095
M47954	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.1998186
M47954	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.1919535
M47954	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.24919836
M47954	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1957009
M47954	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.19983349
M47954	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.28736923
M47954	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.2486286
M47954	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.199818
M47954	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.2215076
M47954	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.199818
M47954	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.1963797
M47954	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	-0.2192115
M47954	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadiales	-0.219093
M47954	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nostocales	0.19814979
M47954	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2224655
M47954	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2411546
M47954	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.2355188
M47954	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	-0.2355188
M47954	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2046584
M47954	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.2329816
M47954	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	0.25262359
M47954	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.199818
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2317531
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2027188
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.21142505
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.2181976
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	-0.3140447
M47954	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2319993
M47954	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2006974
M47954	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothecales	-0.1998019
M47954	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.199818
M47954	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	0.19983349
M47954	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophales	-0.2046584
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacterales	0.2119111
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	-0.2006155

M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2061842
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2986961
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.2355188
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2446214
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1985059
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thio	-0.2001591
M47954	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xant	0.26887216
M47954	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.2955847
M47954	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2366503
M47954	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2388256
M47954	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.30189702
M47999	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2318125
M47999	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.2204337
M47999	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1756357
M47999	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1917715
M47999	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.186193
M48114	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0761947
M48114	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0807873
M48114	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1361831
M48114	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.07720258
M48114	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0800621
M48114	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1413193
M48114	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.0911965
M48114	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.0801055
M48114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1183897
M48118	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2490873
M48118	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.20208113
M48118	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.24370954
M48118	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2337136
M48141	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0846657
M48141	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08223162
M48141	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.129334
M48141	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08930645
M48149	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09668262
M48149	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.12139851
M48149	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1142306
M48149	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.08781965
M48149	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1061999
M48152	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0794445
M48152	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1242828
M48152	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.0822181
M48152	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.0819107
M48152	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0934873
M48152	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10389332
M48152	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0869987
M48152	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.085758
M48152	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1028054
M48152	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21574373
M48152	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1087145
M48152	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1375689

M48152	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0984326
M48152	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1604233
M48153	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.0913897
M48153	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10670338
M48153	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.09797883
M48153	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.0904964
M48153	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.08374013
M48153	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1038906
M48153	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16063251
M48153	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.0975508
M48153	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0823026
M48153	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1505026
M48153	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1422675
M48186	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09478879
M48186	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0821691
M48186	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08473101
M48187	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.20940988
M48187	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2240294
M48187	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2696714
M48187	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.17861376
M48187	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.2093535
M48187	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.20851177
M48187	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.2122808
M48187	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.1890242
M48187	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	0.17545221
M48187	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	0.28247936
M48187	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gc	0.22914001
M48187	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2117939
M48187	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1955167
M48187	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.195173
M48187	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.19278131
M48187	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.22736334
M48187	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.2007795
M48187	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.26165314
M48187	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.2112218
M48187	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1945884
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.1874182
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.30944862
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.20760542
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18459151
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.1804833
M48187	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.20212514
M48187	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.2013103
M48187	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2335655
M48187	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.23985167
M48187	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.22895634
M48187	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2916829
M48189	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobact	-0.0855245
M48189	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1439408
M48189	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08773886

M48189	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1047464
M48191	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.2119949
M48191	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1953597
M48191	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2737356
M48191	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.4755876
M48191	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2302029
M48195	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.078422
M48195	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08175464
M48195	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1520794
M48195	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.17474526
M48195	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1140571
M48195	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1639323
M48195	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0941288
M48195	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1137464
M48252	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2219756
M48252	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.2154179
M48252	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	-0.2095214
M48252	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.2154964
M48252	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.19866784
M48252	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3636943
M48252	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.228505
M48252	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__WCHB1.41	0.23885575
M48255	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.08258647
M48255	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.0867316
M48255	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08399919
M48255	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.0976862
M48255	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.18808511
M48255	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.08567692
M48255	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.11751647
M48255	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.07975225
M48255	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.26261654
M48255	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0991592
M48258	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteria	-0.317303
M48258	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.341833
M48258	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.29535242
M48258	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.58351699
M48258	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.52514195
M48258	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.48282223
M48258	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.67855141
M48258	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.29929659
M48258	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.3518998
M48258	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.59493712
M48258	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.51262142
M48258	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2540039
M48258	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3794457
M48258	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.44357832
M48258	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.44357832
M48258	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.50798787
M48258	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.7943437
M48258	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.5337702

M48258	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobact	0.35615446
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.42004534
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3235802
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2577569
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.5486837
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.58708886
M48258	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.417364
M48258	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.39923505
M48258	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3218418
M48258	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.7854566
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.28723033
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.51845352
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.44357832
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.2903705
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5509194
M48258	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2875916
M48258	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.51977299
M48258	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.7586398
M48258	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.3483583
M48258	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.4466183
M48258	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.26537206
M48258	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.8547861
M48258	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.7631674
M48340	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0886533
M48340	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.1148632
M48340	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10073903
M48340	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.10095771
M48340	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0910794
M48340	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2023131
M48340	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1330131
M48340	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1383654
M48428	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1021602
M48428	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0862019
M48428	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0927289
M48428	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21293621
M48428	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1503509
M48428	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1338726
M48428	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0839413
M48428	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1491111
M48433	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.10505
M48433	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11026087
M48433	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08300014
M48433	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.08387781
M48433	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0992677
M48434	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.11792667
M48434	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10934485
M48434	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09362829
M48434	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.09073783
M48434	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.10118345
M48455	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.13294319

M48455	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.09300303
M48455	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.0998891
M48455	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.09843782
M48455	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.08866012
M48455	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09324561
M48455	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.13484061
M48455	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.09490056
M48455	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.09490056
M48455	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.10297329
M48455	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.14293505
M48455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales	0.09758595
M48455	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.09490056
M48569	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.2062881
M48569	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2289677
M48660	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2542811
M48660	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2534107
M48660	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.22332672
M48660	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.21874373
M48660	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	0.21717097
M48660	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.30230981
M48660	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.19386085
M48660	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococcales	0.20482093
M48660	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.20323072
M48660	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1938262
M48660	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	-0.2246192
M48660	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	0.24459881
M48660	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.2437387
M48660	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	0.20359747
M48660	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.2259586
M48660	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.23382922
M48679	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.3483813
M48679	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.1873988
M48679	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2003184
M48679	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.21123692
M48679	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.4136629
M48679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.35246
M48679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.41663341
M48679	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2480709
M48679	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3899988
M48679	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5562165
M48679	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.3284096
M48773	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.2201397
M48773	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.17619007
M48773	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2148194
M48773	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.2137521
M48773	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3054653
M48773	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.208929
M48773	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.24990256
M48774	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	0.26467964
M48774	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.21677827

M48774	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.29728579
M48774	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3800227
M48774	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.25133552
M48774	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.2033954
M48774	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.533755
M48774	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5876969
M48774	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2284812
M48774	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3542917
M48853	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0838887
M48853	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10490296
M48853	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gem	-0.1041111
M48853	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1023848
M48853	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.106874
M48853	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.09276754
M48857	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.08178196
M48857	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.14680979
M48857	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.08969605
M48857	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0945629
M48857	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.08578287
M48857	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.10902924
M48857	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.08830323
M48857	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08926819
M48857	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.14087793
M48857	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.09302685
M48857	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.08980407
M48857	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08568219
M48857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.12681293
M48857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.08820727
M48857	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.08775168
M48857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1536864
M48857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20327519
M48857	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1053181
M48857	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.11053909
M48857	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09314833
M48857	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1335256
M48885	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.0949106
M48889	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.17870715
M48889	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1814784
M48889	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.19156924
M48889	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.18671571
M48889	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.21542258
M48889	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1845559
M48889	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.25701061
M48889	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.25036006
M48889	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1826865
M48889	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2860765
M48889	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.22610503
M48889	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.23681855
M48889	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.18339924
M48889	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.26121611

M48889	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.2374049
M48892	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.08105757
M48892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.08997941
M48892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09058521
M48892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08086954
M48973	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.1958039
M48973	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.207561
M48973	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.1988666
M48990	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.20443218
M48990	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2465738
M48990	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.1818917
M48990	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1819625
M48990	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2506859
M48990	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1895933
M48990	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2806522
M48994	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.2720134
M48994	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.18018703
M48994	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2469603
M48994	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2564011
M49008	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0873395
M49008	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1261731
M49008	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0983284
M49228	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	-0.0986529
M49228	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0790442
M49228	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.0858541
M49228	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0790442
M49228	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0881817
M49228	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.0780344
M49228	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.0961662
M49228	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0881601
M49228	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.0880524
M49228	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0932102
M49228	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0790442
M49228	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.109181
M49228	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.0836371
M49298	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09981387
M49298	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.08397113
M49298	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.0983428
M49298	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0827661
M49298	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.08410988
M49298	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1245046
M49298	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.09845097
M49298	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0773188
M49298	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	0.08679328
M49298	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.08618007
M49311	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.231344
M49311	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2423128
M49311	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.21349311
M49311	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.2495942
M49311	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.2454921

M49311	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2316222
M49311	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.22272613
M49316	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2093124
M49316	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chloro	-0.2286616
M49316	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31588061
M49329	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.085656
M49329	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.09342523
M49329	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1061389
M49329	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodosp	0.09068076
M49329	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.09036887
M49329	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.20696636
M49330	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	-0.1889501
M49330	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.2051941
M49330	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.19902606
M49330	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.18838449
M49330	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.24684826
M49330	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2266434
M49330	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.3281587
M49330	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.3447942
M49330	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.2292962
M49330	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	0.28961958
M49330	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2160291
M49330	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20261899
M49330	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.30723482
M49330	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	-0.2409104
M49330	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1965463
M49330	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2131317
M49330	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2004778
M49330	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2622637
M49330	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2848669
M49330	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2369184
M49335	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrosospha	0.23757571
M49335	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.28703953
M49335	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.28339091
M49335	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2474141
M49335	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2288872
M49335	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2173554
M49335	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.2186626
M49335	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.2260634
M49335	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.2143115
M49335	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.24836865
M49335	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.2090547
M49335	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.40621447
M49335	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2003078
M49335	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.24282337
M49335	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.25719539
M49335	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.2390734
M49335	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.21812861
M49335	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.27533562
M49342	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08565571

M49342	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.09167489
M49342	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0915474
M49342	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0950146
M49342	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.1284953
M49342	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.08827424
M49342	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.09420614
M49342	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	0.13518324
M49383	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.08393587
M49383	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0809606
M49383	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.09595561
M49383	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1169483
M49383	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.09487887
M49457	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.10590522
M49457	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0925371
M49459	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.0889505
M49459	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1437908
M49459	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08194332
M49459	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0808156
M49459	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1413147
M49459	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1026599
M49459	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0903428
M49459	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1138426
M49459	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1172422
M49459	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0826757
M49459	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1187929
M49459	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1185488
M49459	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.097817
M49459	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1347929
M49459	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1132809
M49459	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16710544
M49459	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08826106
M49459	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.131622
M49459	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0823308
M49459	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0990388
M49459	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.0896584
M49460	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.19684571
M49460	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.17364325
M49460	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.17215473
M49460	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.22275628
M49460	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.19295214
M49460	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.25342513
M49460	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.17005965
M49460	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.31985714
M49460	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2314386
M49460	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2326758
M49461	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1152938
M49461	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.1005278
M49461	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.1151504
M49461	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1124492
M49461	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0880161

M49461	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1366697
M49461	order	k__Bacteria.p__Verrucomicrobia.c__Opiritutae.o__Cerasicoccales	-0.1232301
M49463	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.164835
M49463	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0823744
M49463	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11005941
M49463	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0887246
M49463	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1125005
M49463	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10176105
M49463	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1925113
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M49463	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1395309
M49476	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.12005883
M49476	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.08874149
M49476	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	0.09672307
M49476	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.08072393
M49476	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.09832999
M49476	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.0939684
M49476	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.08072393
M49476	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.08072393
M49476	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	0.09066098
M49476	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.07769364
M49476	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonad	0.08072393
M49476	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.0834403
M49476	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.10267796
M49476	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	0.08296769
M49476	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.07768382
M49476	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.07997801
M49476	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.09945148
M49476	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.09672307
M49476	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.0871063
M49476	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08257376
M49476	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	0.07770568
M49476	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.0780614
M49476	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.0776891
M49476	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.09491893
M49476	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.07827564
M49476	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.0776889
M49476	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.1048955
M49476	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.0776889
M49476	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.10238042
M49476	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09354599
M49476	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	-0.0801773
M49476	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.08256789
M49476	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.08359185
M49476	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.08359185
M49476	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.08072393
M49476	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09860791
M49476	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.10458967
M49476	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.0776889
M49476	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.10479402

M49476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.10366138
M49476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.10031072
M49476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.0779985
M49476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.10584466
M49476	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.0813633
M49476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.07768873
M49476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.0776889
M49476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.10646778
M49476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.0776891
M49476	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	0.08072393
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	-0.0779924
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	0.08166469
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.08359185
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.10372564
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.0937967
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	0.09159574
M49476	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.11583597
M49476	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.09672307
M49476	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08788558
M49476	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0944813
M49476	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.081555
M49476	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	0.10854702
M49476	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.09241826
M49476	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.09523567
M49476	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.09344779
M49513	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.128134
M49513	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.0884089
M49513	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0873302
M49513	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1298337
M49515	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10612969
M49515	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08792148
M49515	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1066478
M49515	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0880206
M49515	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1047614
M49515	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1003816
M49529	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09058706
M49529	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0769336
M49529	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.12245417
M49529	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0980207
M49529	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.07896046
M49529	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1116503
M49529	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1262619
M49529	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0905213
M49529	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1251664
M49532	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1028217
M49532	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1314458
M49534	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1251958
M49534	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0830445
M49534	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0832793
M49534	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.0830849

M49534	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.08389626
M49534	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.09740095
M49534	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1093672
M49534	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1029001
M49539	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0748676
M49539	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0830998
M49539	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10020574
M49539	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.09255531
M49539	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09090702
M49539	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.07165518
M49539	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.07188212
M49539	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1795293
M49539	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1048899
M49539	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1462306
M49539	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1881624
M49539	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1250656
M49539	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1195204
M49542	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1786977
M49542	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.1004891
M49542	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1473071
M49542	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0920381
M49542	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10890823
M49542	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1194934
M49542	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1429845
M49542	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.109508
M49588	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1896428
M49588	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.16880202
M49588	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1769479
M49588	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.2244264
M49588	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.16456021
M49588	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.196207
M49588	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21991185
M49588	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1947297
M49588	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.2458449
M49626	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.227114
M49626	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.29399938
M49626	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.2450964
M49626	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.23694571
M49626	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.24174104
M49626	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.23959293
M49626	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	0.1983629
M49626	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.28867349
M49626	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3237961
M49626	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2403878
M49626	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.28877091
M49626	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.3035598
M49627	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.149493
M49627	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1186244
M49627	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.08416315
M49627	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08669175

M49627	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.11828995
M49627	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1109875
M49627	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1426747
M49627	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1001804
M49627	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12782545
M49627	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.185918
M49627	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1368037
M49627	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1125109
M49630	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1861819
M49630	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2300979
M49630	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.17888855
M49630	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2953272
M49630	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.3327835
M49630	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.32256226
M49630	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2458556
M49630	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2558786
M49631	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.19748043
M49631	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2140049
M49631	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.25240919
M49631	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.1804825
M49631	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.2100011
M49632	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.4091346
M49632	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2186422
M49632	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1723124
M49632	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2228421
M49632	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2189781
M49632	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3921846
M49632	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2845091
M49634	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0738627
M49634	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09241337
M49634	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08026425
M49634	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09241047
M49634	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10245815
M49634	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1862497
M49634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09046919
M49634	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0815912
M49634	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.179795
M49634	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.21578
M49634	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0871967
M49635	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10785276
M49635	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.09354822
M49635	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13750645
M49635	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0967
M49636	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09252912
M49636	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.11222045
M49636	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10410034
M49636	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.17545572
M49636	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1324369
M49636	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.10116528
M49636	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0986791

M49636	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.07948448
M49636	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.09020066
M49636	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08575201
M49636	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0828432
M49636	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.10909649
M49636	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1033481
M49636	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.123411
M49636	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.160865
M49636	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.100513
M49645	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.082318
M49645	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1197722
M49645	order	k__Bacteria.p__Cyanobacteria.c__4COd.2.o__YS2	0.1196767
M49645	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10881992
M49645	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09748304
M49645	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0850911
M49645	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1574681
M49645	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21906344
M49645	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1010417
M49645	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.0969274
M49645	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1241572
M49645	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0931947
M49645	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1777735
M49646	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08486289
M49646	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.09037525
M49646	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.09795743
M49646	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08026816
M49646	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.10336307
M49646	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.1609577
M49646	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	0.14994537
M49647	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10121194
M49647	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.08461498
M49650	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.24143246
M49650	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.281529
M49650	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.2573777
M49650	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2496208
M49650	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2721002
M49650	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.3264263
M49650	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.2863109
M49650	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2391737
M49650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	-0.2414767
M49650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2749676
M49650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	-0.2188284
M49650	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2422554
M49650	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2582271
M49650	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.222224
M49651	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08164409
M49651	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.09378309
M49651	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1080788
M49651	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0963854
M49651	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacteriales	0.08074325

M49651	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1291656
M49651	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.099202
M49651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0830071
M49651	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.11400712
M49651	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.101193
M49651	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0841966
M49651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0888432
M49651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.0875065
M49651	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.0857255
M49651	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0768229
M49663	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.08759644
M49663	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.11072257
M49663	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0947202
M49663	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.10145012
M49663	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.12594614
M49665	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.2301023
M49665	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.25800037
M49665	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.17688528
M49665	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.2284713
M49665	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.26809167
M49665	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.25234933
M49665	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.18742842
M49665	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39116813
M49665	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.20968048
M49665	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.181223
M49665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.18900047
M49665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.2547455
M49665	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.223474
M49665	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.27072696
M49665	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.24147612
M49665	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.2342627
M49665	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.35172547
M49665	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.2746582
M49665	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1967008
M49665	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.22123624
M49665	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.30377485
M49665	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.2907635
M49675	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1140116
M49675	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0880178
M49675	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1207929
M49675	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.153864
M49679	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.18580338
M49679	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gr	0.23607983
M49679	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.31991627
M49679	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.19704828
M49679	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.21887626
M49679	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	-0.1945311
M49679	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.1996705
M49679	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.18609847
M49679	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.21175055

M49679	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22640694
M49679	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.21647856
M49681	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08596147
M49681	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	0.08134154
M49681	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.11379637
M49681	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.10618259
M49681	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08211588
M49681	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gc	0.08397475
M49681	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.10706675
M49681	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.09671773
M49681	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.08230444
M49681	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0825924
M49681	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.08495722
M49681	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1702607
M49834	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.11150603
M49834	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.0938054
M49834	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.10948154
M49834	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1066319
M49834	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0851595
M49834	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.09822326
M49834	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0989811
M49834	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1404051
M49834	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13124517
M49883	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.29887437
M49883	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.22733266
M49883	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2228532
M49883	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.22733266
M49883	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.22054963
M49883	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.234152
M49883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.28693095
M49883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.29451012
M49883	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.27244139
M49883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.25977352
M49883	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.22733266
M49883	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.25053792
M49883	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	0.27796459
M49883	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.29485426
M49883	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.2748943
M52052	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.08643503
M52052	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09612923
M52052	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.10023076
M52052	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1327305
M52056	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.083935
M52056	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08692879
M52056	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gc	-0.0857244
M52056	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08388493
M52056	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.0861619
M52056	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1358228
M52056	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.07977177
M52106	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10141062

M52106	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.1022822
M52106	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0962781
M52106	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0930876
M52106	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13152892
M52106	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1130556
M52206	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1744031
M52206	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.091883
M52206	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1184303
M52206	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08303066
M52206	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.08995
M52206	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1528227
M52206	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1885965
M52206	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0955703
M52206	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0886456
M52206	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.1162823
M52206	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1353187
M52206	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1143858
M52206	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15048956
M52206	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1504939
M52206	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1567963
M52206	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.1815266
M52206	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1144408
M52206	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.0878148
M52206	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.094059
M52233	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09375183
M52233	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.0967589
M52233	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0869147
M52233	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0939053
M52233	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.14111958
M52233	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1117428
M52233	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.13044779
M52233	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.09529237
M52233	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.12126255
M52234	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.25597772
M52234	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.28181467
M52234	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.18312552
M52234	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.26179548
M52234	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.30829384
M52234	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.22555646
M52234	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.25708574
M52234	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.1846164
M52234	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.178284
M52234	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.3090895
M52234	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.3014473
M52234	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.35020557
M52234	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1718567
M52234	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1977719
M52234	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.1850819
M52234	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2107575
M52234	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.21197453

M52234	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.21197453
M52234	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatatale	0.27906558
M52234	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2408861
M52234	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.3122871
M52234	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20307124
M52234	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1773384
M52234	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.26526029
M52234	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2218349
M52234	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2967999
M52234	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.31595863
M52234	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1713627
M52234	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2974713
M52234	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.4125449
M52234	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.26892995
M52234	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.219045
M52234	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.21197453
M52234	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.343654
M52234	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.235202
M52234	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.4214781
M52234	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2524669
M52234	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22293414
M52234	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.4448653
M52234	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3973396
M52238	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1214979
M52238	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11333679
M52238	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.14813144
M52238	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0962305
M52238	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1015409
M52238	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1461633
M52243	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1274504
M52243	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1206173
M52243	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1406617
M52243	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0844548
M52243	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0862787
M52243	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0825161
M52245	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.22854562
M52245	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1807283
M52245	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.17294311
M52245	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.199684
M52247	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.08444522
M52247	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0883636
M52247	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.11858357
M52247	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.1114191
M52247	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	0.09755239
M52247	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.08884808
M52248	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1417755
M52248	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1322165
M52248	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.09505615
M52248	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09850771
M52248	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.0850924

M52248	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.08831791
M52248	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0939223
M52249	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.1817425
M52249	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.37522624
M52249	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.18558539
M52249	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1667063
M52249	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2785231
M52251	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.19842853
M52251	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.19139882
M52251	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.193971
M52251	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1892718
M52251	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.17454799
M52251	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2165008
M52251	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2148952
M52251	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2759222
M52252	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.24316445
M52252	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.23985509
M52252	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.24304294
M52252	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2190067
M52252	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19921315
M52252	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2192938
M52252	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2067933
M52252	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2500804
M52252	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22875995
M52252	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2234108
M52257	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.0924583
M52257	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0876673
M52257	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.08464724
M52257	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1085068
M52257	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0827629
M52257	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.09290575
M52257	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08674274
M52257	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0909031
M52257	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.0862236
M52257	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1617166
M52257	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0950897
M52257	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.080404
M52257	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0945245
M52257	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1478557
M52257	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09338177
M52257	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0923239
M52257	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1568697
M52257	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1116911
M52257	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.095761
M52257	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1128056
M52257	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.093908
M52267	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	0.22006112
M52267	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.208217
M52267	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.1930747
M52267	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1949163

M52267	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.1930747
M52267	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.215422
M52267	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2582692
M52267	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.1930747
M52267	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.3752957
M52267	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.1909054
M52267	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.1930747
M52267	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.223169
M52267	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.20047296
M52267	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.1908763
M52267	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.2016369
M52267	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.1800182
M52267	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.20606221
M52267	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.19086451
M52267	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.1908777
M52267	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.17405255
M52267	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.211047
M52267	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.1908777
M52267	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2025714
M52267	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.20071888
M52267	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.1915343
M52267	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.1930747
M52267	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.1908777
M52267	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales	-0.1890784
M52267	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1969498
M52267	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.18704746
M52267	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.1897688
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfob	-0.2118555
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1908909
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.1908777
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxoco	-0.168845
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.19086451
M52267	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1930747
M52267	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.18766853
M52267	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2502443
M52267	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.20597881
M52267	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1933177
M52267	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2498241
M52267	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2714832
M52267	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.258499
M52267	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1900974
M52267	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1871114
M52267	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.1922593
M52267	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2080817
M52267	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3525928
M52268	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.10345343
M52268	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09951744
M52268	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11641338
M52268	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.09063032
M52268	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.12001722

M52268	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	0.08614324
M52268	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.104568
M52268	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.123715
M52271	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.1804868
M52271	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.18896127
M52271	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.19082955
M52271	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.24794601
M52271	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	0.24497048
M52271	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.25478373
M52271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.19742291
M52271	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.1994342
M52273	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.22815163
M52273	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.25067522
M52273	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.32147562
M52273	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.47022442
M52273	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.33963699
M52273	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.30385783
M52273	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.27139441
M52273	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.43230632
M52273	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.30417391
M52273	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.30417391
M52273	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.33194473
M52273	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.34802259
M52273	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.20354117
M52273	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.30946995
M52273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.27121446
M52273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.29106395
M52273	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.22612857
M52273	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.27086207
M52273	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.19850032
M52273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.214033
M52273	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.30417391
M52273	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.35749962
M52273	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.266511
M52273	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.23559604
M52273	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.33905949
M52273	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.36956287
M52276	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.07753195
M52276	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.09805634
M52276	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.08150279
M52276	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.09826242
M52276	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0834359
M52276	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0852703
M52276	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.08993012
M52276	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.10665874
M52276	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.10618394
M52276	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.08438425
M52276	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.08209858
M52276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.09226291
M52276	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.08265585

M52276	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.13377651
M52276	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.1193469
M52276	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.09236258
M52276	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.17158108
M52278	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.122389
M52278	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08958505
M52278	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.0781727
M52278	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales	-0.0807008
M52278	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1671466
M52278	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16193177
M52278	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1096939
M52278	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0969403
M52281	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1077024
M52281	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09830772
M52281	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.09915582
M52281	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.10709972
M52281	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.18617409
M52281	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1113495
M52281	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.095179
M52281	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1185503
M52282	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.13326194
M52282	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.0805021
M52282	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.08942168
M52282	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08480977
M52282	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.08849683
M52282	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.08849683
M52282	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	0.10908478
M52282	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.07841234
M52282	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.07658916
M52282	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales	0.08793985
M52282	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.08849683
M52282	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.07954325
M52285	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1298796
M52285	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.0786551
M52285	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.10817756
M52285	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.0886845
M52285	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.0923366
M52285	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1233074
M52285	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.08330965
M52285	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.0873089
M52286	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.30929174
M52286	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.3213558
M52286	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2319221
M52286	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2319221
M52286	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.22893866
M52286	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2319221
M52286	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.2261979
M52286	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.208898
M52286	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.2319221
M52286	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.2142021

M52286	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2124757
M52286	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.30913217
M52286	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.2261661
M52286	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.2369073
M52286	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.2348852
M52286	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.2288695
M52286	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.27495208
M52286	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.22619174
M52286	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.1812034
M52286	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.2261864
M52286	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.22385932
M52286	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.2261864
M52286	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2362652
M52286	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterali	-0.2242162
M52286	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:	0.22034294
M52286	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2826483
M52286	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2555377
M52286	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.1962871
M52286	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.1962871
M52286	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2319221
M52286	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.2310856
M52286	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.33751085
M52286	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.2261864
M52286	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.24038195
M52286	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	-0.2804435
M52286	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.2208553
M52286	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2361201
M52286	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.226182
M52286	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14|	-0.2261864
M52286	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba|	0.22619174
M52286	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2319221
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.24062667
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.23770062
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	-0.1962871
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1|	-0.2412304
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.20464374
M52286	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.2778476
M52286	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.3853657
M52286	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3335307
M52286	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.3553813
M52286	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.2069572
M52286	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2279581
M52289	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2456231
M52289	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriali	-0.3413767
M52289	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.3395286
M52289	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2839494
M52289	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1926537
M52289	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2372013
M52289	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2195634
M52289	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.46272822

M52289	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.402695
M52294	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.08382099
M52294	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1194849
M52294	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.0859398
M52294	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	-0.0899868
M52294	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0849289
M52294	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.0960863
M52294	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1175642
M52294	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.0953292
M52294	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.0825221
M52294	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	-0.0889148
M52294	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0903523
M52294	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	-0.0925367
M52294	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	-0.1051946
M52294	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1049008
M52294	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1247441
M52294	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0874738
M52294	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0829726
M52307	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1013719
M52307	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.08568
M52307	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.081073
M52307	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.1349652
M52307	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16855086
M52307	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1548984
M52315	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	-0.2811002
M52315	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.2771252
M52315	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteriales	-0.2817989
M52315	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Elliselliales	0.34614785
M52315	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetales	0.39824558
M52315	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.28681095
M52315	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	0.25917384
M52315	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocyclales	0.29449943
M52315	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	0.33122554
M52315	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.2726538
M52315	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.27295765
M52315	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.2681344
M52315	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.3784613
M52315	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.29281021
M52315	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	0.31125857
M52315	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.28352964
M52315	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.29031031
M52340	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0868254
M52340	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0887002
M52340	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0985363
M52340	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1205876
M52413	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.09372187
M52413	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.08096981
M52413	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobacterales	0.09437003
M52413	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.18111384
M52413	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.10797451

M52413	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.07386843
M52413	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.08572945
M52413	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.13707973
M52413	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.0926306
M52413	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.0965203
M52413	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobiales	0.07408568
M52413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.08407932
M52413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.07838061
M52413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.11501192
M52413	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	0.08080532
M52413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales	0.09106315
M52413	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.13526822
M52413	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.0979936
M52413	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.0861071
M52413	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerales	0.07525646
M52413	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiales	-0.0785287
M52434	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.26602574
M52434	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.2123185
M52434	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.2330844
M52434	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.24251317
M52434	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.2029532
M52434	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.23491769
M52434	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.19025916
M52434	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.37303488
M52434	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.242961
M52434	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.26932741
M52434	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.26932741
M52434	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.26921219
M52434	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.18511583
M52434	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.23447507
M52434	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales	0.21054714
M52434	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.21015925
M52434	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.34116099
M52434	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobacteriales	0.1829008
M52434	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.20847147
M52434	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.26932741
M52434	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.2100263
M52434	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.25835098
M52434	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.28530776
M52434	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.231935
M52434	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerales	0.22918718
M52450	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2106836
M52450	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2072489
M52450	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	0.21736381
M52450	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.21844281
M52450	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.24064608
M52450	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2788461
M52453	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1057679
M52453	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.0900782
M52453	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	0.1236745

M52453	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.0905436
M52461	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.09908927
M52461	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.10481985
M52462	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.23433315
M52462	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.46684635
M52462	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.40496861
M52462	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.54048956
M52462	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.3461099
M52462	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.31649223
M52462	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.48655191
M52462	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.34784886
M52462	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.26405863
M52462	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.24805
M52462	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacterales	-0.2365506
M52462	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.47297072
M52462	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.53941552
M52462	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.353256
M52462	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.2786444
M52462	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.43694777
M52462	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.43694777
M52462	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.6493953
M52462	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.551205
M52462	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2956273
M52462	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.19750072
M52462	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	-0.2177292
M52462	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.20776661
M52462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.56853792
M52462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.2373253
M52462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.287303
M52462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.73148721
M52462	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.26088227
M52462	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.38426756
M52462	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.2738133
M52462	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.5138246
M52462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2114863
M52462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.27665184
M52462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.43694777
M52462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.5281912
M52462	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.3472596
M52462	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.38884002
M52462	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.47960645
M52462	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.6459438
M52462	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.3916845
M52462	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.28406916
M52462	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.6089722
M52462	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.6014806
M52473	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphi	0.08589584
M52473	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.0878508
M52473	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.089381
M52473	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.089381

M52473	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.09727777
M52473	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.089381
M52473	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.0923883
M52473	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriimonadiales	-0.089381
M52473	order	k_Bacteria.p_Chlorobi.c_Ignavibacteria.o_Ignavibacteriales	0.09170111
M52473	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.0923843
M52473	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.1019348
M52473	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.103036
M52473	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_H39	-0.0908687
M52473	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.0878508
M52473	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.08956738
M52473	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocales	0.09240025
M52473	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_FAC88	-0.0898198
M52473	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_258ds10	-0.0923933
M52473	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_Fibrobacterales	0.09956766
M52473	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Gemellales	-0.0927598
M52473	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_BSA2B.08	-0.0881369
M52473	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Natranaerobiales	-0.0923933
M52473	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_SHA.98	-0.1032785
M52473	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Thermoanaerobacteriales	-0.0897351
M52473	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ellin329	-0.0889467
M52473	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_GMD14	-0.0909124
M52473	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Nitrospirales	0.09362629
M52473	order	k_Bacteria.p_Nitrospirae.c_Nitrospira.o_Nitrospirales	-0.0797687
M52473	order	k_Bacteria.p_Planctomycetes.c_Phycisphaerae.o_WD2101	-0.089381
M52473	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Ellin329	-0.0923933
M52473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallionellales	-0.095308
M52473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_MKC10	0.09857252
M52473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Rhodocyclales	-0.094475
M52473	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SBl14	-0.0913504
M52473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Desulfobacteriales	-0.0991204
M52473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Entotheonellales	-0.0923863
M52473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_GMD14	-0.0923933
M52473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Spirochaetales	0.09240025
M52473	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Syntrophomonadales	-0.089381
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Acidithiobacterales	0.0987427
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Chlorobacteriales	-0.1461949
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HOC3	0.09590614
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_HTCC	-0.0862324
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Oceanospirillales	-0.0995452
M52473	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_PYR1	-0.0980724
M52473	order	k_Bacteria.p_Spirochaetes.c_Spirochaetes.o_Sphaerochaetales	-0.0878508
M52473	order	k_Bacteria.p_Verrucomicrobia.c_Verrucomicrobiae.o_Verrucomicrobiales	0.11418617
M52603	order	k_Archaea.p_Crenarchaeota.c_Thaumarchaeota.o_Nitrososphaerales	-0.4858319
M52603	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_CCU21	0.41702339
M52603	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_iii1.15	0.42387796
M52603	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_PK29	0.2739026
M52603	order	k_Bacteria.p_Acidobacteria.c_Solibacteres.o_Solibacterales	0.34975752
M52603	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	0.2739026
M52603	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	0.2739026

M52603	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.28740744
M52603	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.7082966
M52603	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.39684262
M52603	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.2739026
M52603	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.6225001
M52603	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.7998282
M52603	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.53699439
M52603	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.5095813
M52603	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.28740721
M52603	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.29007157
M52603	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.33276175
M52603	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.37106256
M52603	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.3439005
M52603	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.51812459
M52603	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.287468
M52603	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.70930854
M52603	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.4392227
M52603	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.35960674
M52603	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.28743715
M52603	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.3074279
M52603	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.28743715
M52603	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.3503247
M52603	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.68106656
M52603	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.68106656
M52603	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.2739026
M52603	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.7864476
M52603	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.37861111
M52603	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.8425782
M52603	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2824123
M52603	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.61869155
M52603	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.28743715
M52603	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.6415247
M52603	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.76670838
M52603	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.30759876
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.56432409
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.50272471
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3854883
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.28740719
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.28743715
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.5701952
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.287468
M52603	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	0.2739026
M52603	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.34212467
M52603	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.68106656
M52603	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3901477
M52603	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.40511445
M52603	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.40258781
M52603	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.727665
M52603	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	0.26796956
M52603	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.50887546

M52603	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.6833139
M52603	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.66672
M52604	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.0794317
M52604	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0772273
M52604	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0772273
M52604	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.08551039
M52604	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0772273
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M52604	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0772273
M52604	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0767268
M52604	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0760235
M52604	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.0794317
M52604	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0822454
M52604	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.08152801
M52604	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.07672305
M52604	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0767242
M52604	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.07586682
M52604	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.09891106
M52604	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0767242
M52604	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.0778406
M52604	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.10879571
M52604	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.0801919
M52604	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0772273
M52604	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0767242
M52604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.07906028
M52604	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.0828074
M52604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0767254
M52604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0767242
M52604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.07672305
M52604	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0772273
M52604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.07908969
M52604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.0948476
M52604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.08110169
M52604	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0838256
M52604	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.0794317
M52604	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0982934
M52604	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0921839
M52604	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.0831744
M52604	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.0970106
M52608	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10143506
M52608	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.11937064
M52608	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.09596479
M52608	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.15095492
M52608	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.0908814
M52608	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.16998816
M52608	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.09781898
M52608	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.1792544
M52625	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.25096
M52625	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.2021714
M52625	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.24951489

M52625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.2402171
M52625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17019516
M52625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrio	0.18005155
M52625	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantho	0.19372516
M52625	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.19440878
M52633	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.17751701
M52633	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1695335
M52633	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.2101564
M52633	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.22196842
M52633	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.253759
M52634	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.08558578
M52634	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.09790285
M52634	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.10866415
M52634	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.09386509
M52634	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0840673
M52634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobac	0.11554534
M52634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.12056882
M52634	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	0.08394061
M52634	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.100311
M52634	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1160088
M52634	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.0824072
M52637	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.08424688
M52637	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08226999
M52637	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0915435
M52637	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.0928578
M52639	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12086918
M52639	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.089105
M52639	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.0753857
M52639	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.09282767
M52639	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	-0.1010629
M52639	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1049083
M52639	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1114756
M52639	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.0906265
M52639	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.0950113
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M52639	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1140792
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M52639	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1126044
M52639	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.0814061
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M52639	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1750004
M52639	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2118726
M52639	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1438779
M52639	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1275855
M52641	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	-0.1887064
M52641	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.1876061
M52641	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.1769125
M52641	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.29303259
M52641	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.19906139
M52641	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.1908652

M52641	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.21089649
M52641	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.23886567
M52641	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.22980924
M52641	order	k__Bacteria.p__Verrucomicrobia.c__Opiritae.o__Cerasicoccales	0.1822807
M52641	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.24633172
M52641	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.2608759
M52642	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08692353
M52642	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.0917552
M52642	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.15234812
M52642	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08450343
M52642	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.11103282
M52642	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.13376648
M52642	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08760397
M52642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0819666
M52642	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1757745
M52642	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.17679
M52655	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.0936911
M52655	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.09254268
M52655	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09381346
M52661	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.20890543
M52661	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.25946691
M52661	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.22614454
M52661	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	-0.1980673
M52661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	-0.235609
M52661	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.47104632
M52766	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2039622
M52766	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	-0.2926713
M52766	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26247754
M52766	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	0.22343134
M52766	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.21768159
M52772	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12148653
M52772	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.10659516
M52772	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1271061
M52773	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.26467606
M52773	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.17643154
M52773	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.19266733
M52773	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3290775
M52773	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhizobi	0.19217136
M52773	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.19384979
M52773	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.23097689
M52773	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2485812
M52773	order	k__Bacteria.p__Verrucomicrobia.c__Opiritae.o__Cerasicoccales	-0.2268009
M52773	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2599018
M52782	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.10176363
M52782	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.08128777
M52782	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1467844
M52782	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.07668538
M52782	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.08573247
M52782	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.07554409
M52782	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.093494

M52782	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1072318
M52782	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.0975852
M52791	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10679688
M52791	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.08204847
M52791	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.08378979
M52791	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.09779103
M52791	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.14593218
M52791	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.11209924
M52791	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardi	0.07958789
M52791	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.11997205
M52791	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.0856745
M52833	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.09719356
M52833	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.0811701
M52833	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.08283805
M52833	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1082794
M52833	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.0824567
M52833	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1020669
M52850	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.0898002
M52850	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0919015
M52850	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.1071359
M52850	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1366962
M52867	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.29638447
M52867	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	0.2091467
M52867	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.25291242
M52867	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3841177
M52867	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.6580863
M52867	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.6529909
M52867	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2496521
M52867	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.21091026
M52867	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.3691616
M52871	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1805847
M52871	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	-0.1845113
M52871	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.3544339
M52879	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.179595
M52879	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1836317
M52879	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2167861
M52925	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	0.20021193
M52925	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.21409206
M52938	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	-0.1115237
M52938	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.0947136
M52938	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.10631519
M52938	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	0.11643824
M52938	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.13077394
M52969	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.2581738
M52969	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.24002633
M52969	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.18030952
M52969	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.18249217
M52969	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2013878
M52969	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.197219
M52970	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2289984

M52975	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.20850425
M52975	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.31063163
M52975	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.24213643
M52975	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.21216026
M52975	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.2257449
M52975	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.22382538
M52975	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.23259803
M52975	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.23412233
M52975	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2286232
M52987	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.194826
M52987	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2363481
M52987	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.18769195
M52987	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.26957756
M52987	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2755165
M52987	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.37527554
M52987	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2397916
M52987	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2828888
M52987	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3468977
M52987	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.2834286
M52987	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.3380335
M53010	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2792073
M53010	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.37091064
M53010	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.26681146
M53010	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.48457599
M53010	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.25088147
M53010	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.29508988
M53010	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.46654381
M53010	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.42584249
M53010	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.31056361
M53010	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2910742
M53010	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.33608029
M53010	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.44991297
M53010	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.2182938
M53010	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.2334556
M53010	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.22034452
M53010	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.44724872
M53010	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.44724872
M53010	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.54767544
M53010	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.5155105
M53010	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2139162
M53010	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.21472749
M53010	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.45397975
M53010	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.20686339
M53010	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.62430788
M53010	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.25039305
M53010	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.42243215
M53010	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.4222373
M53010	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.26858277
M53010	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.24432583
M53010	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.44724872

M53010	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3259559
M53010	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.29077587
M53010	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.36438431
M53010	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.5243617
M53010	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2258488
M53010	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.27920582
M53010	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2713863
M53010	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.5006015
M53010	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.4935133
M53013	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2258066
M53013	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.19240758
M53013	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.3116289
M53013	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.3077954
M53013	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.39970687
M53013	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.4044185
M53013	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.41703113
M53013	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	0.24519309
M53013	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2273015
M53013	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.33439373
M53013	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.39330606
M53013	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.24355249
M53013	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.20267265
M53013	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.36897657
M53013	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.36897657
M53013	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.4363459
M53013	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.4375655
M53013	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.26851224
M53013	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	0.19204054
M53013	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.35758981
M53013	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.48729199
M53013	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.32286038
M53013	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.3383837
M53013	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.18856752
M53013	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.35142864
M53013	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.36897657
M53013	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.331175
M53013	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2585177
M53013	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.3901689
M53013	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2440253
M53013	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.22186331
M53013	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.4201728
M53013	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3915168
M53023	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.1185917
M53023	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10317017
M53023	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.09351933
M53023	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.0891784
M53023	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.09211351
M53023	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.097065
M53086	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2438849
M53086	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.23902496

M53086	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2717246
M53086	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.23414215
M53086	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.30643792
M53086	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3136038
M53086	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.5859938
M53086	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.5146005
M53086	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	0.30600405
M53086	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.5100045
M53106	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1420082
M53106	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.10903879
M53106	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.10162326
M53106	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.08173294
M53106	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1043339
M53106	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	0.08112672
M53106	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0799138
M53106	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1381127
M53106	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17807661
M53106	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1368384
M53106	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1646275
M53106	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.0989737
M53106	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0854066
M53106	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1898262
M53110	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.18492507
M53111	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1199397
M53111	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.15070307
M53111	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1260659
M53111	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1462214
M53111	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1679617
M53114	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.1038172
M53114	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0770294
M53114	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1323182
M53114	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	0.08048372
M53114	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.08001924
M53114	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0899609
M53114	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11548519
M53114	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1052794
M53114	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.0798824
M53114	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.0790834
M53114	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.0794599
M53114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1070039
M53114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1116072
M53114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.2239508
M53114	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.0846897
M53114	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0898055
M53114	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1163786
M53114	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1810174
M53114	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1065764
M53114	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.0922847
M53114	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2056118
M53121	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.23300565

M53121	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	-0.2125676
M53125	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososphaerales	0.07905498
M53125	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.1257869
M53125	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.1415052
M53125	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.0775077
M53125	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriales	-0.1076437
M53125	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.0988693
M53125	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.115
M53125	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.0988693
M53125	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.10142016
M53125	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.0988693
M53125	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1240266
M53125	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.0953559
M53125	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.0792387
M53125	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	-0.0988693
M53125	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	0.11874354
M53125	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.1041711
M53125	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.0975031
M53125	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.0953593
M53125	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.0990867
M53125	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	-0.0959037
M53125	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.099797
M53125	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.1076437
M53125	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.0782547
M53125	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.09342156
M53125	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.09534369
M53125	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.1052413
M53125	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.0953506
M53125	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.08339693
M53125	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	-0.0941157
M53125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.11746548
M53125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.0953506
M53125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0961209
M53125	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.0849451
M53125	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1427042
M53125	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	-0.1040222
M53125	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadetes	-0.1310338
M53125	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nitrilase	0.09979007
M53125	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1607592
M53125	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.1056277
M53125	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.0988693
M53125	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	-0.1185527
M53125	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.1092424
M53125	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.0953506
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales	-0.0890124
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionellales	-0.0970032
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.1249179
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.09336187
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.1174946
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.1151922

M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0950844
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	-0.1064145
M53125	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.1225555
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0929721
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0914597
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.0953576
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.0953506
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.0963687
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.09534369
M53125	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.0988693
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.09369553
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	-0.0872356
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1049579
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1278025
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1340992
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.1052802
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1172449
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceai	-0.0821776
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.107187
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17010603
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thioh	-0.0859901
M53125	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.119915
M53125	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.0963126
M53125	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.1076437
M53125	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1371575
M53125	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	-0.0963867
M53125	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1186282
M53125	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1533542
M53125	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	-0.1262694
M53125	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	-0.1139693
M53125	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1278866
M53125	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.0862406
M53127	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08878425
M53127	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	-0.0925025
M53127	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.12074638
M53127	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.13000624
M53127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.1563435
M53127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.09159895
M53127	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	0.12494492
M53156	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	-0.2696937
M53156	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.1955036
M53156	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodob	0.20003152
M53156	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.2644596
M53156	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.21904106
M53156	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	-0.1773884
M53156	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.1792669
M53158	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.10260239
M53158	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.0971438
M53158	order	k__Bacteria.p__Bacteroidetes.c__Saprosipirae.o__Saprosipirales	0.13207071
M53158	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.08450657

M53158	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_FAC88	0.08064621
M53158	order	k_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge	0.09378133
M53158	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Cauloba	0.10549384
M53158	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhizobi	0.10888565
M53158	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Rhodos	0.08144897
M53158	order	k_Bacteria.p_Proteobacteria.c_Alphaproteobacteria.o_Sphingc	0.10414169
M53158	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Gallione	0.08461563
M53158	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_IS.44	0.08972096
M53158	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_Neisseria	0.08081278
M53158	order	k_Bacteria.p_Proteobacteria.c_Betaproteobacteria.o_SC.I.84	0.10580194
M53158	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Bdellovi	0.11737014
M53158	order	k_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_Myxoco	0.10059243
M53158	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Cardi	0.08272982
M53158	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Ocea	0.08714424
M53158	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Paste	0.08770408
M53158	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Thiot	0.1123431
M53158	order	k_Bacteria.p_TM7.c_TM7.3.o_I025	0.09886037
M53158	order	k_Bacteria.p_Tenericutes.c_RF3.o_ML615J.28	-0.1009359
M53158	order	k_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales	0.10194593
M53158	order	k_Bacteria.p_Verrucomicrobia.c_Spartobacteria.o_Chthonioba	0.0999627
M53158	order	k_Bacteria.p_WS3.c_PRR.12.o_PBS.III.9	0.0925524
M53158	order	k_Bacteria.p_WS3.c_PRR.12.o_Sediment.1	0.09345201
M53163	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Actinomyceta	-0.1964726
M53163	order	k_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales	-0.2348216
M53163	order	k_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_Enter	-0.2106702
M53165	order	k_Archaea.p_Euryarchaeota.c_Methanobacteria.o_Methanoba	-0.2013159
M53165	order	k_Bacteria.p_Acidobacteria.c_Acidobacteria.6.o_CCU21	-0.188811
M53165	order	k_Bacteria.p_Acidobacteria.c_Acidobacteriia.o_Acidobacteriale	-0.2204721
M53165	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_PK29	-0.1797731
M53165	order	k_Bacteria.p_Acidobacteria.c_Chloracidobacteria.o_RB41	-0.1896206
M53165	order	k_Bacteria.p_Acidobacteria.c_Sva0725.o_Sva0725	-0.1797731
M53165	order	k_Bacteria.p_Acidobacteria.c_iii1.8.o_DS.18	0.19574502
M53165	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Bifidobacteria	-0.2688656
M53165	order	k_Bacteria.p_Actinobacteria.c_Actinobacteria.o_Micrococcales	-0.1797731
M53165	order	k_Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriale	-0.2735287
M53165	order	k_Bacteria.p_Actinobacteria.c_MB.A2.108.o_0319.7L14	-0.1752056
M53165	order	k_Bacteria.p_Armatimonadetes.c_Fimbriimonadia.o_Fimbriim	-0.1797731
M53165	order	k_Bacteria.p_Caldithrix.c_KSB1.o_GW.22	-0.2236974
M53165	order	k_Bacteria.p_Chlamydiae.c_Chlamydiia.o_Chlamydiales	-0.1852665
M53165	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_A31	-0.1751803
M53165	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_Anaerolineales	-0.1843675
M53165	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_GCA004	-0.176448
M53165	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_H39	-0.20649
M53165	order	k_Bacteria.p_Chloroflexi.c_Anaerolineae.o_SBR1031	-0.2204721
M53165	order	k_Bacteria.p_Cyanobacteria.c_Chloroplast.o_Stramenopiles	0.18836618
M53165	order	k_Bacteria.p_Cyanobacteria.c_Nostocophycideae.o_Nostocale	0.17519479
M53165	order	k_Bacteria.p_Elusimicrobia.c_Elusimicrobia.o_FAC88	-0.1879279
M53165	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_258ds10	-0.1751949
M53165	order	k_Bacteria.p_Fibrobacteres.c_Fibrobacteria.o_Fibrobacterales	0.17627583
M53165	order	k_Bacteria.p_Firmicutes.c_Clostridia.o_Clostridiales	-0.2499629

M53165	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.18331395
M53165	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.1751949
M53165	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.1725681
M53165	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2199036
M53165	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G6	-0.2346349
M53165	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N:	0.18439554
M53165	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.174381
M53165	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.1797731
M53165	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.2304571
M53165	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.1751949
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.1797507
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.2073687
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.18391205
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	-0.180451
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2007074
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1797962
M53165	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.2257534
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.1694959
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.1915223
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.1751926
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.1751949
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2224419
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.17519479
M53165	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.1797731
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.18396273
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1878783
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2213789
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.19859863
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.2045803
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2123404
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.18503813
M53165	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	-0.1867523
M53165	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2204721
M53165	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.2164788
M53165	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.2529146
M53165	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2043841
M53165	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1864669
M53172	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.19856062
M53172	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanob	-0.2493112
M53172	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.262552
M53172	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	-0.2256545
M53172	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	-0.2079457
M53172	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	-0.1778234
M53172	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.18068194
M53172	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	-0.2079457
M53172	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	0.24258474
M53172	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	-0.2079457
M53172	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	-0.2077214
M53172	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	-0.2079457
M53172	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	-0.1679836

M53172	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	-0.2347326
M53172	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	0.17989496
M53172	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	-0.2077209
M53172	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	-0.2003536
M53172	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	-0.1982379
M53172	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	-0.2256545
M53172	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.19581205
M53172	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.2575438
M53172	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	-0.18285
M53172	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	0.25523146
M53172	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	0.20772233
M53172	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.1682971
M53172	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	-0.1838414
M53172	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	-0.2077208
M53172	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	0.19813944
M53172	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.2112789
M53172	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.17944284
M53172	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	-0.2077208
M53172	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2254232
M53172	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacteriales	-0.1673115
M53172	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.2059628
M53172	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ell	-0.182537
M53172	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ge	-0.1953487
M53172	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	0.21804164
M53172	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2597252
M53172	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.2047849
M53172	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	-0.2079457
M53172	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	-0.2077208
M53172	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.1874189
M53172	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	-0.1739196
M53172	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	-0.197346
M53172	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	0.22097655
M53172	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.1908314
M53172	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.1941159
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.1726747
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.2478189
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	-0.2077213
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	-0.2077208
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	0.20772233
M53172	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	-0.2079457
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	0.22000656
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.1654572
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.2049641
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	0.26889449
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	-0.1788417
M53172	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.2369932
M53172	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	-0.2256545
M53172	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.290925
M53172	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2465014
M53172	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.190542

M53172	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.3477859
M53176	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.26510922
M53176	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.22820848
M53176	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.30035688
M53176	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.34777139
M53176	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.21549549
M53176	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.22417952
M53176	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.1887786
M53176	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.22626258
M53176	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.24302667
M53176	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.18914524
M53176	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	0.26001914
M53176	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.227497
M53176	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.21936649
M53176	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.21936649
M53176	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.35017307
M53176	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	-0.376956
M53176	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.3138118
M53176	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.30559381
M53176	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.2023047
M53176	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.38835221
M53176	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.32788346
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.31051302
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.21936649
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19067035
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	-0.1996643
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.3053144
M53176	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.3128587
M53176	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.30208961
M53176	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2422411
M53176	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2049818
M53176	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.18243587
M53176	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2419957
M53176	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.2359402
M53214	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	0.17572024
M53214	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2418168
M53214	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.3170043
M53214	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	-0.163685
M53214	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	-0.170915
M53214	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyci	0.19099997
M53214	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2615668
M53214	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	-0.1716946
M53214	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1924033
M53214	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasiococcales	-0.1713132
M53214	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomi	-0.1973033
M53215	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.106797
M53215	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11572404
M53215	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0829294
M53215	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.138377
M53215	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1335013

M53215	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.0809313
M53215	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2539238
M53229	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.17263945
M53229	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	-0.2286107
M53229	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.201389
M53229	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.2000443
M53229	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1841078
M53229	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.3501981
M53229	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	0.20491995
M53229	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholc	0.18825695
M53229	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.18273332
M53229	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.1833367
M53229	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.1775178
M53229	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Anaeroplasmatales	0.18797828
M53229	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.1811769
M53229	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2003523
M53230	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.2173773
M53230	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.29812593
M53230	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3858228
M53230	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.223053
M53230	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1978605
M53230	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.45011216
M53230	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.249042
M53230	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.3463774
M53230	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.3225452
M53230	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.5009651
M53231	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.08756462
M53231	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1054594
M53231	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.0883273
M53231	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1139383
M53231	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1301981
M53231	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1123031
M53231	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1146449
M53231	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1007704
M53231	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.0984374
M53232	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.242992
M53232	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	-0.2515568
M53232	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	-0.3166457
M53232	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	-0.4644525
M53232	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	-0.3933716
M53232	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.3576486
M53232	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	-0.611536
M53232	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	-0.3252366
M53232	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	-0.4316832
M53232	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	-0.4316832
M53232	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	-0.249227
M53232	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	0.39935446
M53232	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	-0.221534
M53232	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.4000111
M53232	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.25417044

M53232	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseria	-0.2730581
M53232	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosos	-0.3101147
M53232	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	-0.2950763
M53232	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	-0.2659839
M53232	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.3796934
M53232	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marin	-0.4316832
M53232	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseuc	0.2149034
M53232	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.458478
M53232	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.27509966
M53232	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	0.22511929
M53232	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.3297178
M53232	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	-0.3838371
M53232	order	k__Bacteria.p__Verrucomicrobia.c__Verruco.5.o__WCHB1.41	-0.2736574
M53234	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.18309876
M53237	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.1240961
M53237	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.11551031
M53237	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	-0.0791934
M53237	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	-0.0834265
M53237	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2160867
M53237	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.17365238
M53237	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.1176981
M53237	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1024858
M53237	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1342511
M53237	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1140183
M54676	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08996102
M54676	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	-0.1408129
M54676	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.1072542
M54676	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1048178
M54676	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	0.111521
M54676	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	-0.0801023
M54676	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.2578519
M54676	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	0.14829104
M54687	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.12208007
M54687	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribact	0.08571273
M54687	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.086096
M54687	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.0947249
M54687	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	0.13105789
M54687	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.11520322
M54687	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.13454256
M54687	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1420989
M54687	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verruco	-0.1913213
M54701	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.2059017
M54704	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.12137403
M54704	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1227955
M54704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	-0.1046695
M54704	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.0954567
M54704	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0923791
M54704	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.1651371
M54704	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1958792
M54704	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	-0.1501134

M54704	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.1214525
M54705	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.2123043
M54705	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.173429
M54705	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	-0.172328
M54705	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	-0.2033919
M54723	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.10089992
M54723	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1014168
M54723	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	0.14750437
M54723	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.1019976
M54723	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	0.08061106
M54723	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.09542357
M54831	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0829317
M54831	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12376735
M54831	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12072421
M54831	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.16235458
M54831	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales	0.07744414
M54831	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.16110293
M54831	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.08945578
M54832	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.1000168
M54832	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__OPB54	0.08567311
M54832	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellisiales	-0.0830912
M54832	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimonadales	-0.0845101
M54832	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBla14	-0.0909824
M54832	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriales	-0.0980894
M54832	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.09305184
M54834	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.0862915
M54834	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.0862246
M54834	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	0.12290171
M54834	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Gemellales	0.12790931
M54834	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.15887444
M54834	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.17833653
M54834	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomonadales	0.08179365
M54837	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1999972
M54837	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacteriales	0.19055673
M54837	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2037048
M54838	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanobacteriales	-0.3200961
M54838	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteriales	-0.1911455
M54838	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2262905
M54838	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	-0.2828898
M54838	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.3272613
M54838	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1997542
M54838	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	0.33354128
M54839	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomycetales	-0.1157746
M54839	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	-0.1120818
M54839	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	-0.107323
M54839	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Turicibacterales	-0.1218061
M54839	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Clostridiales	-0.0929549
M54839	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	-0.1413042
M54839	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	-0.0966312
M54839	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales	-0.126375

M54839	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.083694
M54841	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	0.0908906
M54841	order	k__Bacteria.p__Cyanobacteria.c__4COd.2.o__YS2	-0.0862571
M54841	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	0.08608495
M54841	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__SHA.98	0.08325183
M54841	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.08031242
M54841	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	0.08799199
M54841	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09813512
M54841	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	0.08599608
M54857	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.0810262
M54857	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.13824496
M54857	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.10800975
M54857	order	k__Bacteria.p__Acidobacteria.c__Acidobacteriia.o__Acidobacteriale	0.08248631
M54857	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.08955342
M54857	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.13001718
M54857	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.08955342
M54857	order	k__Bacteria.p__Acidobacteria.c__iii1.8.o__DS.18	-0.0918045
M54857	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.09166346
M54857	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.08955342
M54857	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriale	0.07997013
M54857	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.08554058
M54857	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriim	0.08955342
M54857	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.08831432
M54857	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobact	-0.0836558
M54857	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.11161871
M54857	order	k__Bacteria.p__Chlamydiae.c__Chlamydiia.o__Chlamydiales	0.09671058
M54857	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.08553171
M54857	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.08756892
M54857	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__GCA004	0.09421213
M54857	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.09261803
M54857	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__SBR1031	0.08248631
M54857	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	0.09082263
M54857	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.0920894
M54857	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocale	-0.0855519
M54857	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.09383734
M54857	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.08554403
M54857	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.08341272
M54857	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.08554403
M54857	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.14312445
M54857	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.08056087
M54857	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	0.08714603
M54857	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__N	-0.0930828
M54857	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.09662868
M54857	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.08955342
M54857	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.09144961
M54857	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.12861572
M54857	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin32	0.08554403
M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.10142194
M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.12574646
M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.0814416

M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.09668707
M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.13123529
M54857	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.1232653
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.08986824
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfo	0.08478177
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entothe	0.08553614
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.08554403
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.11616276
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spiroba	-0.0855519
M54857	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrop	0.08955342
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidit	-0.0816977
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09156937
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.09571428
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HOC3	-0.0834685
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.08227137
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.09537016
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.09429795
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.1170217
M54857	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.12433749
M54857	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Sphaerochaetales	0.08248631
M54857	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.10125683
M54857	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1385688
M54857	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opituales	0.14788958
M54857	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.09009095
M54857	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.12869186
M54857	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	0.12431133
M54857	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.11051804
M54857	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.10973425
M54859	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.110261
M54859	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts	-0.0885376
M54859	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0815413
M54859	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.094583
M54859	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0860199
M54859	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1366663
M54859	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__HA64	-0.087921
M54859	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1009277
M54860	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.0991041
M54860	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__MBA08	0.09318736
M54860	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.1083617
M54860	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Rhodocy	-0.0874918
M54860	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alterc	-0.08842
M54860	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.1042474
M54860	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	-0.1085976
M54860	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.0901131
M54860	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.1635895
M54860	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.1379664
M54881	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.2391338
M54881	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.1741424
M54881	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodos	-0.1713359
M54881	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2725942

M54881	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2588173
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M54882	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.1861786
M54882	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.21142958
M54882	order	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria.o__Victivallales	-0.3091617
M54882	order	k__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales	-0.2026699
M54882	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2902031
M54882	order	k__Bacteria.p__Tenericutes.c__RF3.o__ML615J.28	-0.2272207
M54882	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2365282
M54883	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	0.1072392
M54883	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.08436342
M54883	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.10899611
M54883	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Actinomyceta	0.10049883
M54883	order	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales	-0.089738
M54883	order	k__Bacteria.p__Caldithrix.c__KSB1.o__GW.22	0.08312687
M54883	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales	0.09953057
M54883	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	0.12153469
M54883	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__El	0.08264945
M54883	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	0.10899658
M54883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	0.07998608
M54883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__IS.44	0.10321276
M54883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.09771636
M54883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	0.12658994
M54883	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	0.10210493
M54883	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	0.098806
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.09872689
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.08866305
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__HTCC	0.08497775
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ocea	0.08037513
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	-0.092207
M54883	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiot	0.10399397
M54883	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	0.09227943
M54883	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales	-0.1118362
M54883	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutaes	0.1289702
M54883	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.11087996
M54883	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	0.09545047
M54883	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	0.09490607
M54883	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	0.09847604
M54887	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.314609
M54887	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.293199
M54887	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2941238
M54887	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.35063875
M54887	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.51579254
M54887	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.60230829
M54887	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.76264742
M54887	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubrobac	0.35788624
M54887	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.72917945
M54887	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.70338967
M54887	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.46860919
M54887	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.4061893

M54887	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.63720943
M54887	order	k__Bacteria.p__Cyanobacteria.c__4C0d.2.o__YS2	-0.312869
M54887	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.55543081
M54887	order	k__Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales	0.49059792
M54887	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gc	-0.3132091
M54887	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.52589029
M54887	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.52589029
M54887	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.75706546
M54887	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.8733164
M54887	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.5192434
M54887	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulob	0.34276474
M54887	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.68689092
M54887	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3539469
M54887	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.4749866
M54887	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosom	0.80495516
M54887	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.3284261
M54887	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.52268047
M54887	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.26992356
M54887	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.3930964
M54887	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.8184229
M54887	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.49247471
M54887	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.52589029
M54887	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.6205835
M54887	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.45070238
M54887	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.37793875
M54887	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.9099204
M54887	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.4348433
M54887	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.3358605
M54887	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.43900748
M54887	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.92952
M54887	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.8728669
M54891	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2071832
M54891	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2077987
M54891	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	-0.2044839
M54891	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1720877
M54891	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingc	-0.1845268
M54891	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MND1	0.21456853
M54891	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	-0.1822685
M54891	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chror	0.18417374
M54891	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.1895172
M54891	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2318097
M54891	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2048486
M54891	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Cerasicoccales	0.22847752
M54892	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2370659
M54892	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2633656
M54892	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.22656758
M54892	order	k__Bacteria.p__Firmicutes.c__Erysipelotrichi.o__Erysipelotrichales	-0.1881058
M54892	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__RF32	-0.2341847
M54892	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.2178961
M54892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2832657

M54892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.19026678
M54892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.1956643
M54892	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.201291
M54892	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.3128574
M54893	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.18865248
M54893	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Bifidobacteria	-0.2317889
M54893	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2239036
M54893	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.21773141
M54893	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.2423364
M54893	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.29067239
M54893	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2043557
M54893	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enter	-0.2193928
M54893	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Paste	0.21415042
M54893	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.239768
M54893	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2160968
M54893	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2467471
M54893	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.1976776
M54896	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2594523
M54896	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2975899
M54896	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.2179373
M54896	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.29330423
M54896	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.18823237
M54896	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.32559455
M54896	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Streptophyta	0.20362838
M54896	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__BSA2B.08	-0.1990074
M54896	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale:	0.24074283
M54896	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.21136735
M54896	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.235449
M54896	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.33344416
M54896	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.20713
M54896	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2696528
M54896	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.22051109
M54896	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.27508244
M54896	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseu	-0.2321559
M54896	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.366895
M54896	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xantf	-0.2415002
M54896	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.2605856
M54896	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2983815
M54896	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucor	-0.2236383
M54896	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3109543
M54896	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.3230949
M54897	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph:	-0.267836
M54897	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.231931
M54897	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.26684437
M54897	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.4525311
M54897	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.47572494
M54897	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.61561876
M54897	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Solirubroba	0.24816779
M54897	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.54647724
M54897	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriale	0.52827755

M54897	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.39790451
M54897	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.3236527
M54897	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.57899727
M54897	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacte	0.48563166
M54897	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__Elusimicrobiales	-0.3458658
M54897	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__G	-0.247489
M54897	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.45555352
M54897	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaera	0.45555352
M54897	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatale	0.7580584
M54897	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales	0.27180571
M54897	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomyc	-0.7443833
M54897	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__BD7.3	-0.4639667
M54897	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Cauloba	0.35963523
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.62535306
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Gallionel	-0.3294272
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylo	-0.4149083
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrosor	0.72818665
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SC.I.84	-0.2700974
M54897	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Thiobact	0.24207995
M54897	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.41614931
M54897	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovi	0.25518125
M54897	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfol	-0.4031061
M54897	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.725356
M54897	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.22737445
M54897	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legio	0.41821805
M54897	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Marir	0.45555352
M54897	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanth	-0.2238235
M54897	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.44488526
M54897	order	k__Bacteria.p__Spirochaetes.c__Spirochaetes.o__Spirochaetales	0.35872566
M54897	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.3766139
M54897	order	k__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Opitutales	-0.2482627
M54897	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaer	0.32834185
M54897	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.2363149
M54897	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.8372463
M54897	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.7384884
M54898	order	k__Archaea.p__Euryarchaeota.c__Methanobacteria.o__Methanoba	-0.2615362
M54898	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.23673779
M54898	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriak	-0.2582926
M54898	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.29076674
M54898	order	k__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales	0.23486162
M54898	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Camp	0.28497227
M54898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeror	0.23671876
M54898	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibric	-0.2586067
M54898	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucom	-0.3671041
M54899	order	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota.o__Nitrososph	-0.2657528
M54899	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__CCU21	0.26245234
M54899	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.24840602
M54899	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__PK29	0.21178901
M54899	order	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria.o__RB41	0.19715618
M54899	order	k__Bacteria.p__Acidobacteria.c__Sva0725.o__Sva0725	0.21178901

M54899	order	k__Bacteria.p__Actinobacteria.c__Actinobacteria.o__Micrococcales	0.21178901
M54899	order	k__Bacteria.p__Actinobacteria.c__MB.A2.108.o__0319.7L14	0.2200771
M54899	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.40985389
M54899	order	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadiales	0.21178901
M54899	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.2341277
M54899	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.35695002
M54899	order	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales	0.34567837
M54899	order	k__Bacteria.p__Bacteroidetes.c__Saprosirae.o__Saprosirales	0.31088621
M54899	order	k__Bacteria.p__Chlorobi.c__Ignavibacteria.o__Ignavibacteriales	-0.2388243
M54899	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__A31	0.22007194
M54899	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales	0.20150754
M54899	order	k__Bacteria.p__Chloroflexi.c__Anaerolineae.o__H39	0.23574282
M54899	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Chlorophyta	0.19496291
M54899	order	k__Bacteria.p__Cyanobacteria.c__Chloroplast.o__Stramenopiles	-0.1759231
M54899	order	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae.o__Nostocales	-0.2201114
M54899	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.19944211
M54899	order	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia.o__FAC88	0.27699294
M54899	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__258ds10	0.22009295
M54899	order	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria.o__Fibrobacterales	-0.2336889
M54899	order	k__Bacteria.p__Firmicutes.c__Clostridia.o__Natranaerobiales	0.22009295
M54899	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Ellin329	0.1973209
M54899	order	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Nostocales	-0.2029056
M54899	order	k__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospirales	0.25901573
M54899	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.28579359
M54899	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerales	0.28579359
M54899	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__WD2101	0.21178901
M54899	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.32240217
M54899	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetiales	-0.2605909
M54899	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Caulobacteriales	0.25167681
M54899	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ellin329	0.22009295
M54899	order	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingobacteriales	0.21486391
M54899	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.32122656
M54899	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__MKC10	-0.2187698
M54899	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrospirales	0.30709651
M54899	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__SBl14	0.21606345
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.31853255
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Bdellovibrionales	0.23967805
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacteriales	-0.1971926
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Entotheonellales	0.22007456
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__GMD14	0.22009295
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococciales	0.20013673
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Spirochaetales	-0.2201114
M54899	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Syntrophomonadales	0.21178901
M54899	order	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacteriales	0.23299164
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Acidithiobacteriales	-0.2177098
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromonadales	0.21154882
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.19517992
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.28579359
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__PYR1	0.21823238
M54899	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotrichales	0.197197

M54899	order	k__Bacteria.p__Spirochaetes.c__Brachyspirae.o__Brachyspirales	0.32750936
M54899	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.226164
M54899	order	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae.o__Pedosphaerae	0.2478805
M54899	order	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria.o__Chthonioba	0.24055115
M54899	order	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiae	-0.2093298
M54899	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.2156496
M54899	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.211487
M54901	order	k__Archaea.p__Euryarchaeota.c__Thermoplasmata.o__E2	-0.2112495
M54901	order	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6.o__iii1.15	0.21214982
M54901	order	k__Bacteria.p__Acidobacteria.c__Solibacteres.o__Solibacterales	0.27528037
M54901	order	k__Bacteria.p__Actinobacteria.c__Coriobacteriia.o__Coriobacteriales	-0.2503375
M54901	order	k__Bacteria.p__Actinobacteria.c__Thermoleophilia.o__Gaiellales	0.24816492
M54901	order	k__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales	0.18392618
M54901	order	k__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales	0.30106543
M54901	order	k__Bacteria.p__Bacteroidetes.c__Saprospirae.o__Saprospirales	0.17592898
M54901	order	k__Bacteria.p__Chloroflexi.c__Chloroflexi.o__Roseiflexales	0.31292905
M54901	order	k__Bacteria.p__Deferribacteres.c__Deferribacteres.o__Deferribacteres	0.22359786
M54901	order	k__Bacteria.p__Planctomycetes.c__OM190.o__agg27	0.19344986
M54901	order	k__Bacteria.p__Planctomycetes.c__Phycisphaerae.o__Phycisphaerae	0.19344986
M54901	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatales	0.24425465
M54901	order	k__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia	-0.3175636
M54901	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Ellin6067	0.21756385
M54901	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Methylobacteriales	-0.2302738
M54901	order	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Nitrososphaerales	0.33798008
M54901	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__BPC076	0.19033715
M54901	order	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__NB1.j	-0.2924181
M54901	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales	0.35741936
M54901	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Mariprofundales	0.19344986
M54901	order	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales	-0.3007217
M54901	order	k__Bacteria.p__TM7.c__TM7.3.o__I025	-0.3010729
M54901	order	k__Bacteria.p__Tenericutes.c__Mollicutes.o__RF39	-0.2099565
M54901	order	k__Bacteria.p__Thermi.c__Deinococci.o__Deinococcales	-0.2417184
M54901	order	k__Bacteria.p__WS3.c__PRR.12.o__PBS.III.9	-0.3407376
M54901	order	k__Bacteria.p__WS3.c__PRR.12.o__Sediment.1	-0.345863
M00053	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0865772
M00053	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08117401
M00053	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08330217
M00053	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.135151
M00053	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.094631
M00053	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1137717
M00053	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1432361
M00053	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0940295
M00053	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1114613
M00053	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1442751
M00054	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1091817
M00054	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08411565
M00054	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2078684
M00054	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1094521
M00054	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1058449
M00054	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0996904

M00054	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1778501
M00054	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1627501
M00054	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1019984
M00055	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11279205
M00055	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.0905747
M00055	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1109178
M00056	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1181257
M00056	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1214815
M00057	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1164967
M00057	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10847453
M00057	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1355645
M00057	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.081518
M00057	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0848655
M00057	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.102211
M00057	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0834374
M00058	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0812688
M00058	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1271907
M00058	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0923088
M00058	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0869546
M00058	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0920855
M00058	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0982531
M00059	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0750333
M00059	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.08679403
M00059	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.13010277
M00059	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08845599
M00059	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1672629
M00059	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1201146
M00059	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1057102
M00059	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1434151
M00059	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1360438
M00059	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1268371
M00059	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1072974
M00060	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0987222
M00060	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1371335
M00060	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0929811
M00060	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1152904
M00060	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1138085
M00060	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1125072
M00063	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1031877
M00063	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08782094
M00063	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.10502315
M00063	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08089341
M00063	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08774484
M00063	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09586525
M00063	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0790796
M00063	class	k__Bacteria.p__WS3.c__PRR.12	-0.0788108
M00064	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.102534
M00064	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08119551
M00064	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1476612
M00064	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0932313

M00064	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1103849
M00064	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1117327
M00064	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.114736
M00396	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08880784
M00396	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1729042
M00396	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1426889
M00396	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09212164
M00396	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0928659
M00396	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0841949
M00396	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.0842029
M00396	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.092677
M00396	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0928659
M00396	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.1119332
M00396	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0928659
M00396	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.09851931
M00396	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0913548
M00396	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0928659
M00396	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0928659
M00396	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0973856
M00396	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1008241
M00396	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09389258
M00396	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.09212405
M00396	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.10979817
M00396	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0803076
M00396	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0928659
M00396	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0928659
M00396	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.0891309
M00396	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.09135483
M00396	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.09679522
M00396	class	k__Bacteria.p__GN02.c__BD1.5	0.09564805
M00396	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.144208
M00396	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0869495
M00396	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0913548
M00396	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2175576
M00396	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1103146
M00396	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2636531
M00396	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1039284
M00396	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2030201
M00396	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1106472
M00396	class	k__Bacteria.p__WS3.c__PRR.12	-0.0820036
M00437	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.248726
M00437	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.19827886
M00437	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.19146891
M00437	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2500924
M00437	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2458522
M00437	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3046694
M00443	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0819709
M00443	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1016532
M00443	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0847405
M00443	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0760838

M00485	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0824241
M00485	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.17182663
M00485	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0878781
M00485	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1069654
M00485	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.088466
M00485	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1129013
M00512	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10068494
M00512	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.20516487
M00512	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1170471
M00512	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1105777
M00512	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1577446
M00512	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1373993
M00512	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.145361
M00512	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1186426
M00513	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1114077
M00513	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09779735
M00513	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.0866505
M00514	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1540152
M00514	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0825712
M00514	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0986433
M00514	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.094222
M00514	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1321334
M00514	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1546599
M00527	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0810532
M00527	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08650651
M00527	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.100949
M00527	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1149957
M00528	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09274955
M00531	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.09838049
M00531	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11713623
M00531	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09043755
M00531	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.104236
M00531	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0839259
M00531	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1043148
M00533	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1942155
M00533	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.26844667
M00533	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1978729
M00533	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2557212
M00533	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2037229
M00533	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.29541423
M00533	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1730517
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M00533	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.21698491
M00533	class	k__Bacteria.p__TM7.c__TM7.3	-0.2109366
M00533	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2832601
M00533	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.217938
M00533	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1897289
M00533	class	k__Bacteria.p__WS3.c__PRR.12	-0.1784415
M00537	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0944684

M00537	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.085603
M00537	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2156233
M00537	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0885874
M00537	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1003773
M00537	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1439369
M00541	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.08634
M00541	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1081586
M00541	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1369778
M00542	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.164219
M00542	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.09909213
M00542	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1140256
M00542	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.0916989
M00554	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08296249
M00554	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1142083
M00554	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.120402
M00554	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.15849717
M00554	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.18891683
M00554	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.17325914
M00555	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08728027
M00555	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0992503
M00555	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1047369
M00555	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.088992
M00555	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.10402163
M00555	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.10792091
M00566	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.10087349
M00568	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.10886398
M00568	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1002847
M00568	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.09553759
M00568	class	k__Bacteria.p__Tenericutes.c__RF3	0.09482528
M00568	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.20936147
M00569	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09392115
M00573	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1060085
M00573	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1110974
M00573	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0874947
M00573	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1051032
M00573	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0806546
M00573	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1682956
M00573	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1010462
M00573	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1665574
M00575	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11185908
M00575	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.07942382
M00575	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09073391
M00575	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09449436
M00575	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0956649
M00575	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1180412
M00587	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12356837
M00587	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19409577
M00587	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.08954162
M00594	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08190584
M00594	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1022931

M00594	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0878513
M00594	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1407912
M00594	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1033737
M00594	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1008626
M00594	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1015635
M00594	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1537105
M00594	class	k__Bacteria.p__TM6.c__SJA.4	0.08621524
M00594	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1185886
M00594	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1114346
M00594	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.078635
M00598	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0920833
M00598	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.096764
M00598	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1128346
M00598	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0807748
M00598	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.0943492
M00598	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.094795
M00598	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0889813
M00598	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1370005
M00598	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0916205
M00598	class	k__Bacteria.p__OD1.c__ZB2	-0.0884884
M00598	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.086472
M00598	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0807781
M00598	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.1030446
M00601	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0907896
M00601	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0869339
M00601	class	k__Bacteria.p__WS3.c__PRR.12	-0.0934313
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M00604	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.0927822
M00604	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0987279
M00604	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0856763
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M00604	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1005103
M00604	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0852756
M00604	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1302747
M00604	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1329541
M00604	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1337263
M00604	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.194327
M00604	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0938667
M00604	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0819903
M00605	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0916991
M00605	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.129452
M00605	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1307625
M00605	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0922588
M00605	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0856204
M00605	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1401182
M00605	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0977089
M00605	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0920296
M00605	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1481969
M00605	class	k__Bacteria.p__Tenericutes.c__RF3	-0.100048

M00605	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1335719
M00605	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1133908
M00606	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0967194
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M00606	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1061035
M00606	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0805125
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M00606	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1290235
M00606	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1237661
M00606	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1257121
M00607	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.09561168
M00607	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.10387067
M00607	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1138671
M00607	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1061261
M00607	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0848832
M00607	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1396682
M00607	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1182545
M00607	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.108631
M00608	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.11033785
M00608	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.08624514
M00608	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.10755005
M00608	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0814002
M00608	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09957514
M00608	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.10475415
M00608	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.11791005
M00608	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.09516302
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M00608	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.12786377
M00608	class	k__Bacteria.p__Tenericutes.c__RF3	0.14540881
M00608	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.17219571
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M01105	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.07758901
M01105	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0944226
M01105	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0981105
M01105	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0765532
M01105	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.0893035
M01105	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0766167
M01105	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0765532
M01105	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0765532
M01105	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0831662
M01105	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0759637
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M01105	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1447576
M01105	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.0993749
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M01105	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0819986
M01105	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0765532
M01105	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0765532
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M01105	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.07596367
M01105	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.1050712
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M01105	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0850939
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M01105	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0853222
M01105	class	k__Bacteria.p__OD1.c__ZB2	-0.101454
M01105	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.0955363
M01105	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0759637
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M01105	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0811644
M01105	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0908237
M01105	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0977707
M01105	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1492978
M01107	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.21323332
M01107	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2306468
M01110	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0751672
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M01110	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09244969
M01110	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10222244
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M01110	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2103176
M01110	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1143168
M01110	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1704966
M01114	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.093634
M01114	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08826531
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M01114	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1321909
M01114	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1364002
M01114	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1622293
M01118	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0991306
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M01121	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0959505
M01121	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1023314
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M01121	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.12538137
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M01121	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0891042
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M01123	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0967969

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M01123	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1914834
M01123	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0915131
M01123	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0839055
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M01123	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1040879
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M01124	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08532766
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M01124	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.088975
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M01124	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1040279
M01124	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.09225022
M01124	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1000995
M01124	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0846622
M01124	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0839465
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M01125	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0858339
M01125	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1128827
M01125	class	k__Bacteria.p__Tenericutes.c__RF3	-0.089337
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M01284	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0961914
M01284	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.07723237
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M01284	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1076256
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M01299	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0970031
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M01301	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0922196
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M01301	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1129591
M01301	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1429932
M01301	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1563376
M01301	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.145254
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M01302	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.120053
M01302	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0901828
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M01303	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12293844
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M01361	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.27787607
M01361	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2360108
M01361	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2616886
M01361	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2767764
M01361	class	k__Bacteria.p__TM6.c__SJA.4	0.39549002
M01361	class	k__Bacteria.p__TM7.c__TM7.3	0.26796188
M01361	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.218009
M01361	class	k__Bacteria.p__WS3.c__PRR.12	0.47240777
M01365	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1040673
M01408	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.243958
M01408	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2291232
M01408	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3689338
M01408	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.187634
M01408	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2824657
M01408	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2455635
M01411	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.11490892
M01411	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0996153

M01412	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08096643
M01412	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.10766
M01412	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09164543
M01412	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09016731
M01412	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.0916411
M01412	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.08639565
M01412	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0868904
M01412	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1105636
M01412	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0943956
M01412	class	k__Bacteria.p__TM6.c__SJA.4	0.09197566
M01412	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.099251
M01413	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3361889
M01413	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2888698
M01413	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2261158
M01413	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3237703
M01413	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2911888
M01416	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08984108
M01416	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12202952
M01416	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.08825184
M01416	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.10153641
M01417	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1315884
M01417	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0913305
M01417	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1215645
M01417	class	k__Bacteria.p__Tenericutes.c__RF3	-0.202356
M01417	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1414624
M01417	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.101557
M01418	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.19439045
M01418	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2154275
M01418	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3212137
M01437	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1122286
M01437	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0973775
M01437	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.14319372
M01437	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1005934
M01444	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.07720789
M01444	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.088814
M01444	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.08187129
M01444	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.0941051
M01444	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2360951
M01444	class	k__Bacteria.p__OD1.c__ZB2	-0.1094065
M01444	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.0978441
M01444	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0782698
M01444	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1679305
M01444	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0990051
M01444	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1919406
M01444	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1542042
M01444	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2967629
M01444	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1938673
M01444	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0846284
M01471	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.247336
M01471	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.29780692

M01471	class	k__Bacteria.p__Tenericutes.c__RF3	0.31648419
M01483	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.11099451
M01483	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1365793
M01483	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0909362
M01483	class	k__Bacteria.p__Tenericutes.c__RF3	-0.090112
M01483	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1149278
M01493	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1033956
M01493	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0959025
M01493	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0948119
M01493	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.11995321
M01493	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0810655
M01493	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2072817
M01493	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.095729
M01493	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0894375
M01493	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1381305
M01493	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1504527
M01493	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1538708
M01493	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1410233
M01493	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1780838
M01494	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0782735
M01494	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1074981
M01495	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10463492
M01495	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1075686
M01495	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.12623957
M01495	class	k__Bacteria.p__Tenericutes.c__RF3	0.20015599
M01495	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.10120161
M01495	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.1467891
M01496	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.3547669
M01496	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.3997667
M01496	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.4683173
M01496	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.4322874
M01496	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.4508474
M01496	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.6412979
M01496	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.279405
M01496	class	k__Bacteria.p__OD1.c__ZB2	-0.4188936
M01496	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.4076986
M01496	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.514673
M01496	class	k__Bacteria.p__TM7.c__TM7.3	0.4999116
M01496	class	k__Bacteria.p__Thermi.c__Deinococci	0.38560623
M01496	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.3668771
M01496	class	k__Bacteria.p__WS3.c__PRR.12	0.34680845
M01498	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.090914
M01498	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0833516
M01498	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.098539
M01498	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1330646
M01498	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0764815
M01498	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1477904
M01498	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1611033
M01498	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1613082
M01498	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1147472

M01498	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1713622
M01500	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.4083172
M01504	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0826881
M01504	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.156469
M01504	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11720485
M01504	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1169366
M01504	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.120527
M01504	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1296409
M01504	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1931793
M01505	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0876247
M01505	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0858266
M01505	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0915263
M01505	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1006581
M01508	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1837798
M01508	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12758532
M01508	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1068368
M01508	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0777383
M01508	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1541043
M01508	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0927573
M01508	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1520469
M01508	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1053094
M01508	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.207798
M01510	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09875705
M01510	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14700912
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M01510	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1180276
M01510	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0849208
M01510	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1379591
M01512	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1076279
M01512	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.144719
M01512	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.11399385
M01512	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.11836411
M01512	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1319705
M01512	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08488809
M01512	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2263562
M01512	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0996671
M01512	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1310726
M01515	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.3244621
M01515	class	k__Bacteria.p__OD1.c__ZB2	-0.2408399
M01515	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.23065411
M01515	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.30413137
M01527	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0974281
M01527	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.106024
M01527	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1948301
M01527	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.07946061
M01527	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0822588
M01527	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1127127
M01527	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0991222
M01527	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1774367
M01527	class	k__Bacteria.p__Tenericutes.c__RF3	-0.101508

M01527	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1259797
M01527	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1381673
M01552	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1064368
M01553	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.16490179
M01553	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.09856429
M01553	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1381581
M01553	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.08420653
M01553	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0825961
M01553	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.0878912
M01553	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.11999445
M01553	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.19833945
M01553	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.1072596
M01553	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.14042763
M01553	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.1100421
M01553	class	k__Bacteria.p__Thermi.c__Deinococci	-0.08936
M01553	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.15728974
M01553	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.10122755
M01556	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.2178943
M01556	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2111535
M01556	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2023606
M01556	class	k__Bacteria.p__WS3.c__PRR.12	-0.2524843
M01558	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08515967
M01558	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0792016
M01558	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08310018
M01558	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0736007
M01558	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0741211
M01558	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0736007
M01558	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0736007
M01558	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08277067
M01558	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0975218
M01558	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0763871
M01558	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0736007
M01558	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.10122654
M01558	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0736007
M01558	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0950868
M01558	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.0788077
M01558	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08312584
M01558	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0736007
M01558	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0736007
M01558	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.07638714
M01558	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.0799114
M01558	class	k__Bacteria.p__GN02.c__BD1.5	0.07550302
M01558	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.11989
M01558	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0763871
M01558	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0959662
M01558	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1309192
M01558	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1778579
M01558	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2233505
M01561	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1193549
M01561	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08985644

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M01563	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2913037
M01563	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.23026657
M01563	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.2544553
M01563	class	k__Bacteria.p__Thermi.c__Deinococci	-0.247007
M01564	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0913656
M01564	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0870549
M01564	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.0885326
M01564	class	k__Bacteria.p__TM6.c__SJA.4	0.08801522
M01564	class	k__Bacteria.p__TM7.c__TM7.3	0.10480207
M01564	class	k__Bacteria.p__WS3.c__PRR.12	0.11262693
M01566	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1907615
M01566	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.18927173
M01566	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.2893865
M01572	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0953518
M01572	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1374117
M01572	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0772625
M01572	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11705063
M01572	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1220222
M01572	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1318086
M01573	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.07995824
M01573	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2083506
M01573	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0890573
M01573	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.077785
M01573	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08875273
M01573	class	k__Bacteria.p__TM6.c__SJA.4	0.08249514
M01573	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.112206
M01574	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2869753
M01574	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.19486481
M01574	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2022452
M01574	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1872855
M01574	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2296952
M01574	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2688729
M01574	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4356393
M01574	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1931062
M01576	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2012804
M01576	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.18224873
M01576	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1785744
M01576	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2500108
M01576	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2098825
M01584	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.19350188
M01584	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2120967
M01584	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2646079
M01584	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.17375642
M01584	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19091179
M01584	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2944724
M01584	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3429822
M01584	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.22986594
M01584	class	k__Bacteria.p__TM7.c__TM7.3	0.2223572
M01584	class	k__Bacteria.p__Thermi.c__Deinococci	0.2539168

M01584	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.27481722
M01584	class	k__Bacteria.p__WS3.c__PRR.12	0.30348576
M01585	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1018011
M01585	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.08334274
M01585	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09208239
M01585	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1332163
M01585	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0894749
M01585	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1381844
M01585	class	k__Bacteria.p__Tenericutes.c__RF3	-0.157925
M01585	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1452138
M01587	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1244076
M01587	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.102383
M01587	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1113754
M01587	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1138073
M01587	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0861697
M01587	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1168532
M01589	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1263907
M01589	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1045266
M01589	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0829938
M01589	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0950337
M01589	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1402311
M01589	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1016781
M01589	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1043291
M01589	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.129056
M01589	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1379931
M01589	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0912262
M01591	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0883472
M01591	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1100197
M01594	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1492846
M01594	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1146207
M01594	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0863387
M01594	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1057279
M01594	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.1025141
M01594	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1021614
M01594	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.109718
M01603	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1132156
M01603	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1334372
M01603	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0966997
M01603	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1130751
M01604	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09865136
M01604	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09577251
M01604	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0842645
M01604	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0908358
M01605	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2727858
M01605	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2738773
M01605	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3679788
M01605	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2628058
M01605	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.536148
M01638	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1262592
M01638	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1018553

M01638	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09957705
M01638	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0982999
M01638	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.10321307
M01638	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1392411
M01642	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0906942
M01642	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0866238
M01642	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.08195586
M01642	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.13102742
M01642	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0885313
M01643	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.119655
M01643	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.11002041
M01643	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09807748
M01643	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.14098499
M01643	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.099876
M01643	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0882069
M01644	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0794338
M01644	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0895285
M01644	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1087775
M01644	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0956575
M01644	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.09269292
M01644	class	k__Bacteria.p__Tenericutes.c__RF3	0.08429466
M01645	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0892686
M01645	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08665463
M01648	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1184622
M01648	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0789315
M01648	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0745456
M01648	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.0755843
M01648	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.07568846
M01648	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1325609
M01648	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.0928981
M01648	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.08917
M01648	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1122969
M01648	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0826553
M01648	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1108756
M01648	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.109835
M01648	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0916718
M01649	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0869941
M01649	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1214478
M01649	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0826424
M01649	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1131245
M01649	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0885867
M01649	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0910175
M01651	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08799536
M01651	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0932191
M01651	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1271006
M01651	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08737294
M01651	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1038547
M01651	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.10680358
M01669	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0869451
M01669	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.10451008

M01669	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.09287914
M01768	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.1836098
M01768	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2379763
M01768	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2317783
M01768	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2645424
M01806	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.18593573
M01806	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.21436661
M01827	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0994909
M01827	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1176389
M01827	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09728466
M01827	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11683939
M01827	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1372238
M01827	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1310304
M01827	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1232823
M01827	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1065624
M01827	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1315594
M01868	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0932313
M01868	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12346437
M01868	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0806331
M01868	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1033863
M01868	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1268159
M01868	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0838676
M01868	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0904385
M01868	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0817166
M01898	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0821282
M01898	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0870296
M01898	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0894387
M01899	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.21190345
M01899	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3405779
M01899	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3181481
M01899	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3565395
M01899	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5985118
M01899	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2771302
M01899	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.386472
M02125	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09796352
M02125	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10329897
M02125	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1035871
M02125	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1491919
M02125	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1152763
M02125	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1033517
M02125	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1429813
M02132	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10363248
M02132	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1373494
M02132	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0834061
M02132	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1095602
M02132	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1097554
M02134	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2495285
M02134	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2125884
M02137	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11026944
M02137	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.10251469

M02137	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10021194
M02137	class	k__Bacteria.p__OD1.c__ZB2	0.08327106
M02137	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.09416932
M02137	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.09836996
M02137	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0853265
M02150	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1054008
M02150	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0870326
M02150	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1390477
M02150	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0904819
M02150	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0859278
M02150	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1575168
M02150	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1317616
M02150	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0768358
M02150	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1741897
M02150	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08414246
M02150	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1483391
M02150	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1213127
M02150	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2048453
M02150	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1079431
M02183	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.08098
M02183	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08906639
M02183	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09040897
M02183	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08906188
M02183	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.0852517
M02183	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0869737
M02183	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0817935
M02183	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1072483
M02183	class	k__Bacteria.p__TM6.c__SJA.4	0.09068925
M02183	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0961673
M02183	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1009684
M02183	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0901988
M02734	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10616332
M02734	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1166074
M02829	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.110571
M02829	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1199777
M02829	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08898956
M02829	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0951489
M02829	class	k__Bacteria.p__Tenericutes.c__RF3	-0.102389
M02829	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1061951
M02829	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1451828
M02959	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2338662
M02959	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.23093652
M02959	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.2140479
M02959	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.19480458
M02959	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.20333991
M03127	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0991477
M03127	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1179425
M03127	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.132711
M03127	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0874342
M03127	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.107215

M03127	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.107991
M03127	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0863692
M03127	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0874342
M03127	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.10042203
M03127	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0874342
M03127	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.10792606
M03127	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0995515
M03127	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0824156
M03127	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0874342
M03127	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0874342
M03127	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0883558
M03127	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1165821
M03127	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.09718182
M03127	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1210046
M03127	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0874342
M03127	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0874342
M03127	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.08241563
M03127	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1173198
M03127	class	k__Bacteria.p__GN02.c__BD1.5	0.08083277
M03127	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.155855
M03127	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0847286
M03127	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0824156
M03127	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1141307
M03127	class	k__Bacteria.p__TM7.c__TM7.3	-0.1100101
M03127	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1142577
M03127	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0982943
M03127	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0986094
M03127	class	k__Bacteria.p__WS3.c__PRR.12	-0.1058705
M03141	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10771599
M03141	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0976074
M03141	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.0944234
M03141	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.15772825
M03147	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1255918
M03147	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1475146
M03147	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0881491
M03147	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1160872
M03147	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.09471092
M03147	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1139777
M03147	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1111327
M03147	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.10004863
M03147	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1250954
M03147	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1041868
M03147	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0793764
M03147	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1687466
M03147	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1178194
M03147	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1058795
M03147	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1538471
M03147	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0852854
M03147	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.123185
M03147	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.1045799

M03147	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1023368
M03155	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1227591
M03155	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0851124
M03155	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.088472
M03155	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0842055
M03155	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.10721662
M03155	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1177333
M04970	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.18662352
M04970	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1976301
M04970	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.1825466
M04970	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.1743915
M04970	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.17446
M04970	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.1743915
M04970	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.1743915
M04970	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1963163
M04970	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.176674
M04970	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.1743915
M04970	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.1743915
M04970	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1877053
M04970	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.18659578
M04970	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.18255085
M04970	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.2444783
M04970	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.1743915
M04970	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.1743915
M04970	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.17667374
M04970	class	k__Bacteria.p__GN02.c__BD1.5	0.17501278
M04970	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.189054
M04970	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.176674
M04970	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.3033776
M04970	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.2018854
M04970	class	k__Bacteria.p__TM6.c__SJA.4	0.22025984
M04970	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2312164
M04970	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2033043
M05086	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0848278
M05086	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08670895
M05086	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0940654
M05086	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0997118
M05086	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1233578
M05086	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1101185
M05086	class	k__Bacteria.p__TM6.c__SJA.4	0.09218638
M05086	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0889218
M05341	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1372971
M05341	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1126224
M05341	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0807474
M05341	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.086674
M06104	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0871121
M06104	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.09460932
M06146	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.09516861
M06146	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.08163717
M06146	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08682546

M06146	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09370074
M06146	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1323967
M06146	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1010328
M12032	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2842867
M12032	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.23443312
M12032	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2685255
M12032	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2681647
M12032	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.3649268
M12032	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2166097
M12110	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.3035056
M12110	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.3242296
M12110	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.5259742
M12110	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.29859594
M12110	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2425126
M12110	class	k__Bacteria.p__WS3.c__PRR.12	0.2594954
M12115	class	k__Bacteria.p__Tenericutes.c__RF3	0.28975011
M12129	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.3347686
M12129	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.4245674
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M12129	class	k__Bacteria.p__TM7.c__TM7.3	0.21436598
M12129	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2534312
M12129	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.21403487
M12129	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.227504
M12142	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.099042
M12261	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2115184
M12261	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.20911913
M12261	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.205459
M12261	class	k__Bacteria.p__OD1.c__ZB2	0.18412387
M12261	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.18412574
M15076	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08665773
M15076	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0820763
M15076	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08838705
M15076	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0919343
M15076	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0969911
M15076	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0918357
M15076	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0919343
M15076	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0919343
M15076	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.10747332
M15076	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0914823
M15076	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0919343
M15076	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0919343
M15076	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0983334
M15076	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0940759
M15076	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08837755
M15076	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0901106
M15076	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0919343
M15076	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0919343
M15076	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.09148232
M15076	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.08405686
M15076	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.0960373

M15076	class	k__Bacteria.p__GN02.c__BD1.5	0.09370398
M15076	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0830606
M15076	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0914823
M15076	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1011133
M15122	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1074379
M15122	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0910523
M15122	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.0973854
M15122	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.09810866
M15122	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0926206
M15122	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0958745
M15122	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0819252
M15122	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1202713
M15122	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1763962
M15125	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2735955
M15125	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1902884
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M15130	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1002346
M15130	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.09511662
M15135	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0870313
M15135	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.1381269
M15135	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1401116
M15135	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.08799033
M15135	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.09604425
M15136	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2085247
M15136	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2011134
M15136	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.2197669
M15136	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2055223
M15136	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2085247
M15136	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2085247
M15136	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.19879636
M15136	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.6107938
M15136	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2782559
M15136	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.1966772
M15136	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2288585
M15136	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2085247
M15136	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2085247
M15136	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2741907
M15136	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2491657
M15136	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2085247
M15136	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2085247
M15136	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.21830591
M15136	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.19667715
M15136	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.4000193
M15136	class	k__Bacteria.p__GN02.c__BD1.5	0.1945918
M15136	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.1989408
M15136	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.1966772
M15136	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.2605109
M15136	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.22151761
M15136	class	k__Bacteria.p__TM6.c__SJA.4	0.22498823
M15136	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2140113

M15136	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2556805
M15142	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10259778
M15142	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.0899471
M15142	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.11502875
M15142	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.12793731
M15142	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.11204989
M15142	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1219216
M15142	class	k__Bacteria.p__OD1.c__ZB2	0.09481507
M15142	class	k__Bacteria.p__Planctomycetes.c__OM190	0.09522964
M15142	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.09800488
M15308	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2959379
M15308	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.22308525
M15308	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.20374356
M15336	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2199232
M15336	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2878478
M15336	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.1787197
M15336	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.19890548
M15336	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1988055
M15336	class	k__Bacteria.p__WS3.c__PRR.12	0.1849666
M15443	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0814824
M15443	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1332214
M15443	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.09043478
M15443	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1009905
M15443	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1666124
M15497	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2461182
M15497	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.2007884
M15500	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09636418
M15506	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0859293
M15506	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1211662
M15506	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.128562
M15506	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10398413
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M15506	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0930952
M15581	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0931906
M15581	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08397893
M15581	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1197254
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M15586	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1467687
M15586	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1301076
M15586	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1181823
M15586	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1359331
M15587	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09507699
M15667	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08347965
M15667	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09023872
M15667	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.0908824
M15667	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.09027595
M15667	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.08573689
M15673	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2309157
M15673	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2046944

M15673	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2941589
M15676	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0918436
M15676	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.0812537
M15676	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0766503
M15676	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0958025
M15676	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1055753
M15676	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.12678533
M15676	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.10922865
M15677	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0909431
M15677	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1475127
M15677	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1410103
M15677	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1158485
M15677	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0892234
M15677	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1691315
M15679	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1703162
M15679	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.26581781
M15679	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.17047669
M15679	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.180865
M15679	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.17567483
M15679	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2398551
M15679	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2210519
M15679	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2149628
M15679	class	k__Bacteria.p__Tenericutes.c__RF3	-0.269605
M15679	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2501697
M15679	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2212302
M15681	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08717862
M15681	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.13992339
M15681	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.0784858
M15681	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0851345
M15681	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.089961
M15681	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1227833
M15681	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0845571
M15681	class	k__Bacteria.p__WS3.c__PRR.12	0.0923478
M15685	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2179503
M15685	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1877783
M15685	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2001225
M15685	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2018889
M15685	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.1691032
M15685	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1703955
M15685	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.27133
M15685	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2183305
M15685	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2865081
M15685	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2881394
M15685	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.1675686
M15685	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2981536
M15704	class	k__Archaea.p__Crenarchaeota.c__MCG	0.24860913
M15704	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2217254
M15704	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.22029547
M15704	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.25674276
M15704	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.37575629

M15704	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.21669383
M15704	class	k__Bacteria.p__Acidobacteria.c__RB25	0.22029547
M15704	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.22029547
M15704	class	k__Bacteria.p__Acidobacteria.c__iii1.8	-0.2374392
M15704	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.24513808
M15704	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.20700123
M15704	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.22029547
M15704	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2386073
M15704	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.22029547
M15704	class	k__Bacteria.p__Caldithrix.c__KSB1	0.21021643
M15704	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.22032506
M15704	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.38657965
M15704	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.22029547
M15704	class	k__Bacteria.p__Chloroflexi.c__TK17	0.22029547
M15704	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.2070011
M15704	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.20749172
M15704	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.1895963
M15704	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.23924383
M15704	class	k__Bacteria.p__GN02.c__BD1.5	-0.2080748
M15704	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.34698588
M15704	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.48001112
M15704	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.27588311
M15704	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.20700123
M15704	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2399763
M15704	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.21351517
M15704	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2272573
M15704	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.39785064
M15704	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.3441223
M15705	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2676654
M15705	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2131001
M15705	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2542883
M15705	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1930156
M15705	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.1759609
M15705	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2878081
M15705	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2598384
M15705	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.282438
M15705	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3482806
M15705	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3035791
M15705	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2177386
M15705	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.45536
M15716	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.11388111
M15716	class	k__Bacteria.p__Tenericutes.c__RF3	0.09971357
M15716	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.09636122
M15720	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1186192
M15720	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10934236
M15720	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.100625
M15720	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08363332
M15720	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1029318
M15720	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.133187
M15729	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.12809165

M15729	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0866618
M15729	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.09944213
M15729	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.10068098
M15730	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.09683476
M15730	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08110071
M15730	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.07368514
M15730	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.09640613
M15730	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1096106
M15730	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1180039
M15730	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.15132681
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M15730	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0786187
M15730	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.08395879
M15730	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.11687331
M15730	class	k__Bacteria.p__Tenericutes.c__RF3	0.15246328
M15730	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.07474914
M15730	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.18726925
M15745	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08937632
M15745	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1613281
M15745	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1103055
M15747	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.097496
M15747	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0809756
M15747	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1358567
M15747	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1088608
M15747	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1309473
M15749	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0834117
M15749	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1477095
M15749	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1311924
M15749	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1187766
M15749	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.105009
M15749	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0823449
M15765	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1051689
M15765	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1364904
M15765	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0925081
M15772	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0968244
M15772	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0855135
M15772	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.09123983
M15778	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1146943
M15778	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10167301
M15778	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0842679
M15778	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1329602
M15797	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1852457
M15797	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.2350997
M15797	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2625447
M15872	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0881492
M15872	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10079248
M15872	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09280837
M15872	class	k__Bacteria.p__TM6.c__SJA.4	0.08417339
M15872	class	k__Bacteria.p__TM7.c__TM7.3	0.08584112
M15872	class	k__Bacteria.p__WS3.c__PRR.12	0.08132528

M15949	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1045381
M15949	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1546486
M15949	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1425384
M15949	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1087709
M15958	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0864622
M15958	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08627924
M15958	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09261193
M15958	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.0862752
M15958	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.08887338
M15958	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.111453
M15958	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1280859
M15958	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1109382
M15958	class	k__Bacteria.p__TM6.c__SJA.4	0.09929676
M15958	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.164735
M15990	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2687298
M15990	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.2437637
M15990	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.43245349
M15990	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.4030921
M15990	class	k__Bacteria.p__OD1.c__ZB2	0.34549896
M15990	class	k__Bacteria.p__Planctomycetes.c__OM190	0.30040207
M15990	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.25709313
M15990	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.2404651
M15990	class	k__Bacteria.p__TM7.c__TM7.3	-0.2963802
M15990	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.26044186
M15990	class	k__Bacteria.p__WS3.c__PRR.12	-0.3020261
M17665	class	k__Archaea.p__Crenarchaeota.c__MCG	0.19962142
M17665	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2405735
M17665	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.17508619
M17665	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2069485
M17665	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.22428736
M17665	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.17960743
M17665	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.23761357
M17665	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.22313158
M17665	class	k__Bacteria.p__Acidobacteria.c__RB25	0.22428736
M17665	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2134722
M17665	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.22428736
M17665	class	k__Bacteria.p__Acidobacteria.c__iii1.8	-0.2256975
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M17665	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.22428736
M17665	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.22367873
M17665	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2106939
M17665	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.22428736
M17665	class	k__Bacteria.p__Caldithrix.c__KSB1	0.21127372
M17665	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.25162234
M17665	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.1994276
M17665	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2069819
M17665	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2082418
M17665	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.23791274
M17665	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.22428736
M17665	class	k__Bacteria.p__Chloroflexi.c__TK17	0.22428736

M17665	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.2207428
M17665	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.209479
M17665	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.2265728
M17665	class	k__Bacteria.p__GN02.c__BD1.5	-0.2244674
M17665	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.18402426
M17665	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.22482443
M17665	class	k__Bacteria.p__Planctomycetes.c__OM190	0.19188895
M17665	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.22074279
M17665	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.21077147
M17665	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.1697897
M17665	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.20586944
M17665	class	k__Bacteria.p__Thermi.c__Deinococci	0.17008619
M17665	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.17826728
M17665	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.25138149
M17747	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0945235
M17747	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.08474319
M17747	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11957723
M17747	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1146415
M17747	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1057126
M17747	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1211365
M17747	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1268516
M17747	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0971465
M17747	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1565907
M17769	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0768161
M17769	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0803408
M17769	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1250616
M17769	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0761728
M17769	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0894256
M17769	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0770215
M17769	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0761728
M17769	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08665175
M17769	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0761728
M17769	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.0915328
M17769	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0761628
M17769	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0761728
M17769	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.07851045
M17769	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0761728
M17769	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0764494
M17769	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0900498
M17769	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0944962
M17769	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.08015549
M17769	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0761728
M17769	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0761728
M17769	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.07616278
M17769	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.086915
M17769	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08761639
M17769	class	k__Bacteria.p__GN02.c__BD1.5	0.08105209
M17769	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1871619
M17769	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0761628
M17769	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1067759

M17769	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1555566
M17769	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1600459
M17769	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0854507
M17769	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.15809
M17769	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0837557
M17772	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.1819688
M17772	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.18993438
M17772	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.19338389
M17772	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2532392
M17772	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2956271
M17772	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1859661
M17772	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2426584
M17772	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3690104
M17774	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1909293
M17805	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2006161
M17805	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1156142
M17805	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1116778
M17895	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09212447
M17895	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09142438
M17895	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0822414
M17895	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1067915
M17945	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22260787
M17945	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.2436013
M17945	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2698035
M17945	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2432914
M17945	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.26651804
M18245	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1792615
M18245	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.271714
M18245	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.212785
M18245	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1655634
M18245	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2522351
M18245	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2095192
M18245	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2127687
M18245	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2069887
M18254	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08348462
M18254	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1542623
M18254	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.096704
M18254	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.13011
M18254	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1993446
M18254	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0911811
M18254	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1170715
M18280	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2412874
M18280	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2470938
M18280	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.24089218
M18280	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3413486
M18280	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3382481
M18280	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3002539
M18280	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.4730556
M18292	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1276108
M18292	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11772192

M18319	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1033747
M18319	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.08212983
M18319	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.13740845
M18319	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.0881256
M18319	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1077579
M18335	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0842941
M18335	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08619384
M18349	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1120657
M18349	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1170254
M18349	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1004041
M18349	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.1040184
M18349	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.11348
M18354	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0818254
M18354	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1080139
M18354	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0778524
M18354	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0889874
M18354	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0776172
M18354	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0778524
M18354	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0778524
M18354	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08218497
M18354	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1244546
M18354	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0758847
M18354	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0778524
M18354	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0778524
M18354	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0752014
M18354	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0920496
M18354	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.08763606
M18354	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0893814
M18354	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0778524
M18354	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0778524
M18354	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.07588465
M18354	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0932492
M18354	class	k__Bacteria.p__GN02.c__BD1.5	0.07485087
M18354	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0778906
M18354	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0758847
M18354	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0799731
M18354	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.14871717
M18354	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0917073
M18357	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0907887
M18357	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0797075
M18357	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1583531
M18357	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.0969764
M18357	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1113459
M18357	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0870031
M18357	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1812007
M18357	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1584263
M18357	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1176255
M18362	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08315945
M18362	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.0995238
M18362	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0983898

M18362	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.099504
M18362	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.16422377
M18362	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0887159
M18362	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.09031805
M18362	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.21128147
M18362	class	k__Bacteria.p__Tenericutes.c__RF3	0.27384076
M18362	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.11862587
M18362	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.17946962
M18369	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1529483
M18369	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.113066
M18369	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0826595
M18369	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0898411
M18374	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0869338
M18374	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08842971
M18374	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.08630033
M18374	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1143405
M18374	class	k__Bacteria.p__TM7.c__TM7.3	-0.0951041
M18374	class	k__Bacteria.p__Tenericutes.c__RF3	-0.120972
M18374	class	k__Bacteria.p__WS3.c__PRR.12	-0.1024014
M18392	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.18999146
M18392	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.18920566
M18392	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.19006171
M18392	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.1861456
M18392	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2855336
M18392	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.2189471
M18392	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2743439
M18392	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3739101
M18392	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.23783
M18392	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1955893
M18394	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08894473
M18394	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0957023
M18467	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1386435
M18467	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0971296
M18467	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2367415
M18467	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1513493
M18467	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2100473
M18476	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.097525
M18476	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0869456
M18476	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0917738
M18476	class	k__Bacteria.p__TM7.c__TM7.3	-0.1154016
M18476	class	k__Bacteria.p__WS3.c__PRR.12	-0.1264367
M18477	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1085591
M18477	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0825432
M18477	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1516707
M18477	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1038798
M18477	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.131022
M18494	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2478299
M18494	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1771146
M18494	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2979957
M18497	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.17728373

M18497	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.19929
M18497	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2312516
M18497	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2186956
M19130	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.22116294
M19130	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.26073649
M19130	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.2540024
M19130	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.23868531
M19130	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.19836259
M19130	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.28587758
M19130	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.17687453
M19130	class	k__Bacteria.p__OD1.c__ZB2	0.24209175
M19130	class	k__Bacteria.p__Planctomycetes.c__OM190	0.19552169
M19130	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.21387146
M19130	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.23858738
M19130	class	k__Bacteria.p__TM7.c__TM7.3	-0.1778113
M19130	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1874064
M19130	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.19475064
M19263	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.284333
M19263	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.2249169
M19263	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.34926913
M19263	class	k__Bacteria.p__OD1.c__ZB2	0.25455581
M19263	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.22258703
M19263	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.20088957
M19263	class	k__Bacteria.p__Tenericutes.c__RF3	0.22796857
M19263	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2344243
M19263	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.22855542
M19324	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2093834
M19324	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.17394422
M19324	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2282513
M20676	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09441267
M20676	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.08491124
M20676	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.07904349
M20691	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08628746
M20691	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0978832
M20691	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08573955
M20691	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1553189
M20691	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1107074
M20691	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1553189
M20691	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1140581
M20703	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08697673
M20703	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10427875
M20703	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.0936543
M20703	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0785271
M20703	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08617825
M20703	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.17353364
M20703	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.12323767
M20758	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0863905
M20758	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0916276
M20758	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1915245
M20758	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10748637

M20758	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0859423
M20758	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0928966
M20758	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1771655
M21046	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2957234
M21046	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.18482581
M21046	class	k__Bacteria.p__TM6.c__SJA.4	0.1964885
M21046	class	k__Bacteria.p__TM7.c__TM7.3	0.30115246
M21046	class	k__Bacteria.p__WS3.c__PRR.12	0.27599727
M21127	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1006426
M21127	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09407905
M21127	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10361699
M21127	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.09760787
M21127	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1047436
M21127	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.106642
M21127	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1293336
M21133	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.25113335
M21133	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.24618789
M21133	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.19587277
M21133	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2254227
M21133	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19851001
M21133	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.25090914
M21133	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.47091494
M21133	class	k__Bacteria.p__OD1.c__ZB2	0.28245926
M21133	class	k__Bacteria.p__Planctomycetes.c__OM190	0.27025911
M21133	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.44129107
M21133	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.23425036
M21133	class	k__Bacteria.p__TM6.c__SJA.4	-0.2290554
M21133	class	k__Bacteria.p__TM7.c__TM7.3	-0.3822649
M21133	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.26434784
M21133	class	k__Bacteria.p__WS3.c__PRR.12	-0.2179563
M21134	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.09132229
M21134	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0797445
M21134	class	k__Bacteria.p__Tenericutes.c__RF3	0.10678718
M21134	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.09356003
M21151	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.226979
M21151	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2164342
M21151	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1868659
M21151	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2776652
M21158	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12219091
M21158	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.13428976
M21169	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08110216
M21169	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08982389
M21169	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09330349
M21169	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1002488
M21177	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09526961
M21177	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0925357
M21183	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.20523746
M21183	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.24117869
M21183	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.25468104
M21183	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.23954419

M21183	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.19518626
M21183	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.21489731
M21183	class	k__Bacteria.p__OD1.c__ZB2	0.21730182
M21183	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.22380354
M21183	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.18242893
M21183	class	k__Bacteria.p__TM7.c__TM7.3	-0.1854342
M21183	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1990658
M21183	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.26995885
M21184	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1710959
M21184	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2435285
M21184	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.24196246
M21184	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2026436
M21184	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.1711662
M21184	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3370264
M21184	class	k__Bacteria.p__Thermi.c__Deinococci	0.20684352
M21184	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.1808033
M21184	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.20515736
M21184	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2023837
M21189	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.18884466
M21232	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.21322961
M21232	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2292696
M21232	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2311104
M21300	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2030838
M21300	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2576695
M21300	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2653749
M21300	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2037476
M21300	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.20182963
M21300	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2740666
M21300	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.22584737
M22116	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09257981
M22116	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0814945
M22116	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.102359
M22116	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.0954802
M22116	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.0888269
M22118	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0944985
M22118	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08520338
M22118	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1014864
M22118	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1059737
M22118	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0849829
M22118	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0840366
M22118	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0881905
M22120	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1678189
M22120	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09910495
M22120	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0898845
M22120	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1604324
M22130	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.123939
M22130	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0924939
M22130	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1010813
M22130	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1356395
M22130	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1056381

M22130	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0903136
M22130	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0911931
M22132	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1020153
M22132	class	k__Bacteria.p__Tenericutes.c__RF3	-0.100462
M22138	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.07467592
M22138	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08644791
M22138	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.08779697
M22138	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.11645979
M22138	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08171209
M22138	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1152793
M22138	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2013441
M22138	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2110188
M22138	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0773639
M22138	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1964666
M22176	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1178242
M22176	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0875456
M22176	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1231085
M22185	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0855237
M22185	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10736168
M22206	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.27337832
M22206	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.21887595
M22206	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.24171515
M22206	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.305496
M22206	class	k__Bacteria.p__TM6.c__SJA.4	-0.1939691
M22206	class	k__Bacteria.p__Tenericutes.c__RF3	0.24179262
M22206	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.19779569
M22273	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1645811
M22273	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.27060405
M22273	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.20962217
M22273	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.2495417
M22273	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.18059603
M22273	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.35822694
M22273	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.17304623
M22273	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.19068258
M22273	class	k__Bacteria.p__OD1.c__ZB2	0.28602095
M22273	class	k__Bacteria.p__Planctomycetes.c__OM190	0.26691754
M22273	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.23756574
M22273	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.22025066
M22842	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1142513
M22842	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.07795251
M22842	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.09622717
M22842	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0883536
M27414	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08245925
M27447	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1203098
M27447	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.09872306
M27447	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1062387
M27513	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.07774875
M27513	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.07913473
M27513	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0818902
M27513	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0966868

M27513	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1141843
M27514	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1907581
M27536	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.28890132
M27536	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.24758164
M27536	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.27093025
M27536	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.25840877
M27536	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.2366286
M27536	class	k__Bacteria.p__OD1.c__ZB2	0.27640835
M27536	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.33965192
M27536	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.3564903
M27536	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.28675818
M27553	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.26192004
M27553	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.25691385
M27553	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.29774445
M27553	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.32795479
M27553	class	k__Bacteria.p__OD1.c__ZB2	0.275927
M27553	class	k__Bacteria.p__Planctomycetes.c__OM190	0.30437409
M27553	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.19389921
M27553	class	k__Bacteria.p__TM6.c__SJA.4	-0.2107439
M27553	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2300132
M27553	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.19374355
M27553	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.25444641
M27665	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.24561359
M27665	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.253237
M27665	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2122162
M27665	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2261012
M27673	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10234748
M27673	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1291098
M27673	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0738243
M27673	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.094778
M27673	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0785343
M27673	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0852728
M27673	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1039591
M27680	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.08880194
M27680	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10570854
M27680	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0980694
M27680	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1387914
M27710	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0828661
M27710	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0877164
M27710	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.0844989
M27710	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0848147
M27718	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.088442
M27718	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08400122
M27718	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.10390816
M27718	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.13314
M27719	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.0875035
M27719	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0841526
M27719	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09547865
M27719	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09412283
M27719	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.15806342

M27722	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10393827
M27722	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09651461
M27731	class	k__Archaea.p__Crenarchaeota.c__MCG	0.0763075
M27731	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.084621
M27731	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.10366294
M27731	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.1151579
M27731	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.10199853
M27731	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.07599057
M27731	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.07810944
M27731	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.1193046
M27731	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.1151593
M27731	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10392399
M27731	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.0759906
M27731	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.1182453
M27731	class	k__Bacteria.p__GN02.c__BD1.5	-0.0756357
M27731	class	k__Bacteria.p__OD1.c__ZB2	0.097791
M27731	class	k__Bacteria.p__Planctomycetes.c__OM190	0.09049203
M27731	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.07599057
M27731	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.12501086
M27731	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.13234828
M27731	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.11300656
M27731	class	k__Bacteria.p__Tenericutes.c__RF3	0.10589038
M27731	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.11882894
M27738	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.08650608
M27738	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.13802665
M27738	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.0933479
M27738	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0900278
M27738	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08652187
M27738	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0767723
M27738	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1189269
M27738	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1377657
M30460	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.2167292
M30460	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.23225033
M31530	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1259035
M31530	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1043079
M31532	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1752448
M31532	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1654495
M31532	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0927009
M31532	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0993345
M31539	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0948956
M31539	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0991482
M31539	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1141383
M31539	class	k__Bacteria.p__TM6.c__SJA.4	0.08537882
M31555	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08620528
M31555	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0889243
M31555	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1313349
M31555	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0800718
M31555	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.09751276
M31555	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08479041
M31555	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.114309

M31555	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0817568
M31555	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0984676
M31555	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.1024251
M31555	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.08175679
M31555	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1001901
M31555	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1193337
M31555	class	k__Bacteria.p__GN02.c__BD1.5	0.08281202
M31555	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0996143
M31555	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0817568
M31555	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0879492
M31555	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2341785
M31555	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1037722
M31555	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1048377
M31555	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0953686
M31675	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.1747543
M31675	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.16545564
M31675	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.16728985
M31675	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2260504
M31675	class	k__Bacteria.p__Caldithrix.c__KSB1	0.17561508
M31675	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.25589819
M31675	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.17337416
M31675	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.20167774
M31675	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.17452316
M31675	class	k__Bacteria.p__OD1.c__ZB2	0.1816345
M31675	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.17629676
M31675	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1684267
M31675	class	k__Bacteria.p__Tenericutes.c__RF3	0.24224402
M31675	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.17546067
M31675	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.26165324
M31850	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.176821
M31850	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1858201
M31850	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1698768
M31891	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10855544
M31891	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0892089
M31891	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0794778
M31891	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1066701
M31891	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0877494
M31891	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.0975712
M31904	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2125317
M31904	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3454049
M31906	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.2443312
M31906	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2720162
M31906	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2896355
M31912	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1915947
M31912	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1862681
M31938	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0801089
M31938	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0912301
M31938	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1085588
M31938	class	k__Bacteria.p__TM6.c__SJA.4	0.08434478
M31943	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2044067

M31943	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.198647
M31943	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.1897927
M31943	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1902953
M31943	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22254617
M31943	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3502953
M31943	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.260074
M31943	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2605437
M31943	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.4218447
M31943	class	k__Bacteria.p__Tenericutes.c__RF3	-0.6768928
M31943	class	k__Bacteria.p__Thermi.c__Deinococci	-0.185212
M31943	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2463493
M31943	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.353858
M32197	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1370003
M32197	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1111208
M32197	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0803623
M32197	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0932117
M32197	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0861247
M32198	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1875551
M32198	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.18880754
M32306	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0968645
M32306	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1337066
M32306	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10470205
M32306	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08280408
M32306	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0876148
M32306	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1608656
M32342	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2389316
M32342	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.2544557
M32342	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2007253
M32342	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.28472719
M32342	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2105818
M32342	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.25316114
M32342	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.223552
M32342	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.3304231
M32342	class	k__Bacteria.p__TM7.c__TM7.3	-0.3546757
M32342	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2414095
M32342	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2552355
M32342	class	k__Bacteria.p__WS3.c__PRR.12	-0.3158073
M32346	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0874411
M32346	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1152667
M32346	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0934445
M32346	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.090184
M32346	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08285869
M32346	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.1204481
M32346	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.11050146
M32346	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0840277
M32346	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1049331
M32346	class	k__Bacteria.p__TM7.c__TM7.3	-0.1085577
M32346	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0831289
M32346	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0976605
M32346	class	k__Bacteria.p__WS3.c__PRR.12	-0.1265416

M32349	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.0780854
M32349	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.12670617
M32349	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.09603003
M32349	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.11000272
M32349	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09116824
M32349	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.09311774
M32349	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08503756
M32349	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.08458708
M32349	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.12222678
M32349	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.0971581
M32349	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1506277
M32349	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1439898
M32349	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.09147792
M32349	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.10298181
M32350	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0860915
M32350	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1081405
M32350	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1105334
M32352	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.108086
M32352	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09454296
M32352	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0880796
M32352	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.114613
M32352	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0847779
M32352	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0852222
M32352	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0840396
M32352	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0854165
M32377	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08213342
M32377	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0835047
M32377	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0936332
M32377	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1099146
M32377	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11584932
M32377	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0871899
M32377	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.10998482
M32377	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.09039331
M32377	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1366099
M32388	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09565848
M32388	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1136568
M32388	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1050961
M32388	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.080817
M32388	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09876604
M32388	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1175418
M32388	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.17246028
M32388	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.126912
M32388	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.10466459
M32388	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.21168346
M32388	class	k__Bacteria.p__Tenericutes.c__RF3	0.26294812
M32388	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.13354755
M32388	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.09864088
M32390	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1143679
M32390	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08177203
M32390	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.156666

M32390	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.101951
M32390	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1532568
M32391	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.0879879
M32391	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0808652
M32398	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.1162521
M32398	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1221412
M32398	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1383976
M32398	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.09966026
M32398	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1099304
M32398	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0964472
M32398	class	k__Bacteria.p__TM6.c__SJA.4	0.07320899
M32398	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.15177872
M32398	class	k__Bacteria.p__Tenericutes.c__RF3	0.16954344
M32398	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.11289132
M32401	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.1035552
M32401	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10531222
M32401	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09259689
M32401	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1237636
M32401	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0849574
M32401	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1611623
M32401	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1173021
M32405	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0908751
M32405	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1205521
M32405	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08130778
M32405	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1428269
M32405	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1060539
M32405	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1645966
M32405	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1571666
M32405	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1064675
M32405	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1832741
M32413	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.2164464
M32413	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.32163619
M32413	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.29095259
M32413	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2630806
M32413	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2159092
M32413	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2653692
M32413	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2630806
M32413	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2630806
M32413	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.25159014
M32413	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2014091
M32413	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.2734277
M32413	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2630806
M32413	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2630806
M32413	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2508746
M32413	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.30844929
M32413	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.29095423
M32413	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2630806
M32413	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2630806
M32413	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.29056758
M32413	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2593516

M32413	class	k__Bacteria.p__OD1.c__ZB2	-0.2714251
M32413	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2347698
M32413	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.2734277
M32413	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2085901
M32413	class	k__Bacteria.p__TM6.c__SJA.4	0.33217088
M32413	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2902675
M32415	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1018603
M32415	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.10892465
M32415	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.09235432
M32418	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.1031838
M32418	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0992788
M32418	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1284271
M32418	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0994429
M32418	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1592261
M32425	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.21208217
M32425	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3149362
M32425	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.42946
M32425	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4672345
M32425	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.4217599
M32426	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.28997633
M32426	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.21839683
M32426	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2182245
M32426	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.21117834
M32426	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.27816198
M32426	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2443303
M32426	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.244038
M32426	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2184408
M32426	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2488285
M32426	class	k__Bacteria.p__Thermi.c__Deinococci	0.21831638
M32426	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.26782679
M32445	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.19041063
M32445	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1924693
M32445	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.21121672
M32445	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2694386
M32445	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.21675916
M32445	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.21128615
M32445	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.20531486
M32445	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.283669
M32445	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2512629
M32445	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2096197
M32445	class	k__Bacteria.p__TM6.c__SJA.4	0.194686
M32445	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2456318
M32445	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3162801
M32445	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2202708
M32445	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2231194
M32446	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1988528
M32446	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.1722318
M32446	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.1751194
M32446	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1879647
M32446	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2132606

M32446	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3980313
M32446	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2763448
M32446	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.2021802
M32446	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.3658411
M32446	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3441448
M32446	class	k__Bacteria.p__TM6.c__SJA.4	0.18632412
M32446	class	k__Bacteria.p__Tenericutes.c__RF3	-0.453093
M32446	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3169474
M32446	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2038921
M32453	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.21300689
M32453	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.26745566
M32453	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.21382861
M32453	class	k__Bacteria.p__Acidobacteria.c__RB25	0.21300689
M32453	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.206188
M32453	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.21300689
M32453	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.20158925
M32453	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.21178504
M32453	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.21300689
M32453	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.21300689
M32453	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.22444627
M32453	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2163227
M32453	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.21300689
M32453	class	k__Bacteria.p__Chloroflexi.c__TK17	0.21300689
M32453	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.2117849
M32453	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.22595462
M32453	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.31433635
M32453	class	k__Bacteria.p__GN02.c__BD1.5	-0.2053628
M32453	class	k__Bacteria.p__Planctomycetes.c__OM190	0.23522368
M32453	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.21178504
M32453	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.22426223
M32453	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.26207195
M32455	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0793888
M32455	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0962795
M32455	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1014454
M32455	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1060526
M32455	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0886584
M32455	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.09076509
M32455	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1055635
M32455	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.083314
M32455	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.1069605
M32455	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1043628
M32455	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0889527
M32455	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.1270297
M32455	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1335663
M32455	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.083279
M32455	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1210636
M32455	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1084891
M32457	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.30373878
M32457	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.2050038
M32457	class	k__Bacteria.p__WS3.c__PRR.12	0.23808082

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M32462	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.2758705
M32462	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2783897
M32462	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2672434
M32462	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.2803283
M32462	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2579946
M32462	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2851425
M32462	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.3044581
M32462	class	k__Bacteria.p__OD1.c__ZB2	-0.2467377
M32462	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2333414
M32462	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.2805105
M32462	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2860146
M32462	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2740319
M32489	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1117821
M32489	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0852417
M32489	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0821673
M32489	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0846279
M32489	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1020809
M32489	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0849474
M32492	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09008353
M32492	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12730508
M32492	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.1162613
M32492	class	k__Bacteria.p__OD1.c__ZB2	-0.0991034
M32492	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.0980688
M32504	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0865436
M32504	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11713375
M32504	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.09064293
M32504	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2497831
M32504	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1589582
M32504	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0842361
M32504	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2143281
M32506	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2220606
M32562	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2887978
M32562	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.2087565
M32562	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3474618
M32562	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3362605
M32562	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3669167
M32599	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.20523765
M32619	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.23502198
M32619	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3170551
M32619	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.26472433
M32619	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5984254
M32619	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5063882
M32619	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5617147
M32807	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.18823232
M32807	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.20411022
M32807	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.180157
M32807	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2131399
M32980	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1952504
M32980	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1917951

M32980	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2042894
M32980	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1938557
M32980	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.203495
M32980	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2890904
M32980	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.2457058
M32980	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2365438
M32980	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2220711
M32984	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0875857
M32984	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0977608
M32984	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0820702
M32984	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1460897
M32984	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0935277
M32984	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0952739
M32984	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.12847935
M32984	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0901376
M32984	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1493578
M32984	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1038509
M32984	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1438995
M32984	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1207668
M32984	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1090684
M32984	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1272083
M32984	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1547461
M33013	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1202848
M33013	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08683766
M33013	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1225552
M33013	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1244307
M33021	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.2428997
M33021	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2174062
M33021	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1918378
M33021	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.20574572
M33021	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.26170153
M33021	class	k__Bacteria.p__Tenericutes.c__RF3	0.32691315
M33021	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.33731739
M33418	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.23915618
M33418	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.25705696
M33418	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.27850677
M33418	class	k__Bacteria.p__OD1.c__ZB2	0.19891665
M33418	class	k__Bacteria.p__Planctomycetes.c__OM190	0.2265529
M33418	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.19334067
M33418	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.20707879
M33418	class	k__Bacteria.p__TM7.c__TM7.3	-0.2314879
M33418	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.21592895
M33418	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.24394226
M33422	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0859768
M33422	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1583959
M33422	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0903183
M33422	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1468412
M33422	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0870648
M33422	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0892465
M33442	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0851643

M33442	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0946221
M33442	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0837419
M33442	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.127354
M33442	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1648589
M33442	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1446075
M33442	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.1035305
M33442	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.0873623
M33442	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0921215
M33442	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1314237
M33442	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1318673
M33442	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0912966
M33442	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0827915
M33442	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0803254
M33442	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.1074583
M33442	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0925017
M33442	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0862882
M33442	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.103594
M33442	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.081678
M33442	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0891374
M33442	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0807006
M33442	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.1168954
M33442	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.083314
M33443	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09895871
M33443	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0817243
M33443	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12716945
M33443	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08353946
M33443	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0917578
M33444	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0927254
M33447	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08626425
M33447	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08340168
M33447	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1443199
M33447	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1460229
M33447	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1474677
M33471	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0849225
M33471	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.10266715
M33471	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.13603751
M33471	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1586621
M33471	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1051321
M33487	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11450047
M33487	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.15839544
M33587	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.08224
M33934	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0956621
M33934	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09569771
M33934	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1132183
M33934	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1572888
M33934	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1018391
M33934	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1268808
M33935	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.084517
M33935	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1001032
M33939	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08722456

M33942	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0916276
M33942	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.1128433
M33942	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.085319
M33942	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0916829
M33942	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1022477
M33943	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.090185
M33943	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09637181
M33943	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1070484
M33943	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0837816
M33946	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1079702
M33946	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1300863
M33946	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1509095
M33946	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1552251
M33946	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1347936
M33946	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1572389
M33946	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1392604
M33946	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1585489
M33949	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.10057636
M33949	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12887449
M33949	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.10941315
M33950	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1381822
M33950	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08352826
M33950	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1281443
M33950	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0990063
M33950	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0862155
M33950	class	k__Bacteria.p__WS3.c__PRR.12	-0.0853413
M33953	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1178365
M33953	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0840535
M33953	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1695848
M33953	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10951427
M33953	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.164117
M33953	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0907121
M33953	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0993465
M33953	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1087592
M33953	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1231951
M33953	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1227714
M33953	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1679111
M33953	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1350223
M33953	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1361481
M33955	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1023575
M33955	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0874198
M33959	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08019583
M33959	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10776409
M33959	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.09596282
M33959	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11597793
M33959	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09122944
M33959	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.09045983
M33959	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.10748013
M33961	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.10656768
M33961	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.09447024

M33965	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.2092944
M33965	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.20743225
M33965	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2003215
M33967	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1074321
M33967	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1086374
M33967	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0938659
M33967	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.08154158
M33968	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09522224
M33968	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.10175818
M33968	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10009295
M33968	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1207179
M33969	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.378356
M33969	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3917831
M33969	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3690426
M33971	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0940561
M33971	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0897171
M33971	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.12845926
M33971	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0985984
M33971	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0805265
M33972	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.32320324
M33972	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.235325
M33972	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2077067
M33972	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2319695
M33972	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2236735
M33972	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.34585751
M33972	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.28605595
M33972	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.2576053
M33972	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2692868
M33972	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.24884179
M33972	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2166097
M33972	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.5262359
M33972	class	k__Bacteria.p__OD1.c__ZB2	-0.2321674
M33972	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2386847
M33972	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2115531
M33972	class	k__Bacteria.p__TM6.c__SJA.4	0.31326699
M33972	class	k__Bacteria.p__TM7.c__TM7.3	0.32420438
M33972	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2530295
M33972	class	k__Bacteria.p__Thermi.c__Deinococci	0.20401279
M33972	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2850176
M33972	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.25328912
M33972	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3492526
M33972	class	k__Bacteria.p__WS3.c__PRR.12	0.41298462
M33973	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19697048
M33973	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3101718
M33973	class	k__Bacteria.p__WS3.c__PRR.12	-0.2117916
M33997	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0871248
M33997	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09160012
M33997	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0928701
M33997	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.10097921
M33997	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.09594675

M33997	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0951213
M33997	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0846386
M33997	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.09162654
M33997	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.1038452
M33997	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0872114
M33997	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.09308571
M33997	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08185691
M33997	class	k__Bacteria.p__GN02.c__BD1.5	0.08317866
M33997	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08247667
M33997	class	k__Bacteria.p__TM7.c__TM7.3	-0.1134783
M33997	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0936061
M33997	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1143419
M33997	class	k__Bacteria.p__WS3.c__PRR.12	-0.1076954
M34035	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.15100409
M34093	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10769057
M34093	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.10895885
M34093	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.105331
M34093	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.11735605
M34381	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.10166205
M34381	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.14406
M34381	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.08826313
M34381	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1475183
M34381	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1118159
M34384	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1298278
M34384	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1047659
M34384	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11051001
M34384	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0949975
M34384	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1055855
M34384	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.098841
M34384	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2088728
M34384	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.112682
M34384	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2123681
M34387	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.0824892
M34387	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08332722
M34387	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08630073
M34389	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1908878
M34389	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.17611538
M34389	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3450075
M34389	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1965349
M34389	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2929323
M34389	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4232769
M34389	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2140651
M34389	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.296172
M34390	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.21561
M34390	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.17995816
M34390	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1990265
M34390	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1968546
M34390	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2719629
M34390	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2461699
M34391	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.3392805

M34391	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2333118
M34391	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2475373
M34393	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.23185532
M34393	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.1991106
M34395	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2942666
M34395	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2322658
M34395	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.22670385
M34395	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2650159
M34395	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.2124003
M34395	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.23624456
M34395	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.232154
M34395	class	k__Bacteria.p__TM7.c__TM7.3	0.25962138
M34395	class	k__Bacteria.p__Thermi.c__Deinococci	0.26804465
M34395	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2085158
M34396	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1128363
M34396	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.08681608
M34396	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1066773
M34398	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09126673
M34398	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1729714
M34398	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1627101
M34398	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1337615
M34398	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.127071
M34399	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1251792
M34399	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1676533
M34399	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0857013
M34400	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0873175
M34400	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0963859
M34400	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08966641
M34400	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1670047
M34400	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0845662
M34400	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1399995
M34400	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1885293
M34400	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0986832
M34401	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1932835
M34401	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2785356
M34401	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2126652
M34401	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3587252
M34401	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2208936
M34401	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3162915
M34401	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.375844
M34401	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3021961
M34401	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2530482
M34404	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.1127498
M34404	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0786411
M34404	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0956216
M34404	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.1179596
M34404	class	k__Bacteria.p__TM6.c__SJA.4	0.08654305
M34404	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.11984646
M34404	class	k__Bacteria.p__Tenericutes.c__RF3	0.11907436
M34404	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.08353555

M34404	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0777987
M34409	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.1966922
M34409	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.22525687
M34409	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.22029061
M34409	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.19399752
M34409	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.2153134
M34409	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.23680714
M34409	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.3337583
M34409	class	k__Bacteria.p__OD1.c__ZB2	0.2015431
M34409	class	k__Bacteria.p__TM7.c__TM7.3	-0.3173415
M34409	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3452353
M34409	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2002101
M34409	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1899816
M34409	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2271649
M34409	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3352412
M34409	class	k__Bacteria.p__WS3.c__PRR.12	-0.337078
M34419	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2419756
M34419	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.2502573
M34419	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.29944101
M34419	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2211378
M34419	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2391073
M34419	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.24558525
M34419	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.35654908
M34419	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2412248
M34419	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2268785
M34419	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3093572
M34419	class	k__Bacteria.p__TM7.c__TM7.3	-0.4793559
M34419	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2234869
M34419	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3101806
M34419	class	k__Bacteria.p__WS3.c__PRR.12	-0.4748148
M34424	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0778914
M34424	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0815239
M34437	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2084667
M34437	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2275369
M34437	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.1934489
M34437	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2034499
M34437	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.32506933
M34437	class	k__Bacteria.p__Tenericutes.c__RF3	0.23692114
M34437	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.21665848
M34457	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.08023
M34457	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1368083
M34457	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1117671
M35101	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1184391
M35101	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0840979
M35101	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.108249
M35101	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1236622
M35101	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1045096
M35101	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.169437
M35101	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2038708
M35101	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1170874

M35101	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.088504
M35107	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0885733
M35114	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1051232
M35114	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1220833
M35114	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0980794
M35114	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1022167
M35114	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1777119
M35126	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2044445
M35126	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.1830253
M35126	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.25740182
M35126	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.281165
M35126	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1788692
M35136	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0835887
M35136	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0958027
M35136	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08133552
M35136	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.111898
M35136	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0904693
M35136	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1221979
M35136	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0827856
M35136	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0867955
M35136	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1176578
M35136	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1104885
M35136	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1460711
M35136	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1195736
M35157	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2114131
M35157	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.432599
M35157	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2571031
M35157	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1845469
M35157	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2274669
M35157	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2536476
M35157	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.234887
M35160	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.1779043
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M35160	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.25138227
M35160	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.35096024
M35160	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.22439906
M35160	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.25877661
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M35160	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.3106937
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M35160	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.22302627
M35160	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.25606334
M35160	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.18150088
M35160	class	k__Bacteria.p__OD1.c__ZB2	0.32914977
M35160	class	k__Bacteria.p__Planctomycetes.c__OM190	0.28334247
M35160	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.19947785
M35160	class	k__Bacteria.p__TM6.c__SJA.4	-0.2190211
M35160	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.30241
M35160	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.2452188
M35160	class	k__Bacteria.p__WS3.c__PRR.12	-0.1844697

M35305	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.19956934
M35305	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1904045
M35305	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.21873189
M35305	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2126397
M35305	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3578472
M35436	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.19115426
M35437	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.27968189
M35437	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.23844238
M35437	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.19818425
M35469	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1120969
M35469	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1103394
M35469	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0873155
M35482	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.20369894
M35482	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.2997326
M35482	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3209228
M35482	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3087936
M35482	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4433343
M35482	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3212705
M35482	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2557362
M35625	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1850176
M35625	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1854407
M35625	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.1931334
M35625	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1784324
M35625	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.1741075
M35625	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.35264616
M35625	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.40386371
M35625	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2858237
M35625	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.19167819
M35625	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2402666
M35625	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3262103
M35628	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2069013
M35628	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.25615783
M35628	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.20857056
M35628	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.25693812
M35628	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.28861207
M35628	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.36533811
M35628	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.22498321
M35628	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.47464789
M35628	class	k__Bacteria.p__OD1.c__ZB2	0.36612618
M35628	class	k__Bacteria.p__Planctomycetes.c__OM190	0.23884743
M35628	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.22166214
M35628	class	k__Bacteria.p__TM7.c__TM7.3	-0.275118
M35628	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2400562
M35628	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.29542043
M35628	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2499875
M35628	class	k__Bacteria.p__WS3.c__PRR.12	-0.2312677
M35630	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.07633614
M35630	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.168694
M35631	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1636845
M35631	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08544991

M35631	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.08928075
M35631	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1030125
M35632	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2082567
M35632	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.34741397
M35632	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2335424
M35634	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2150491
M35634	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2631454
M35634	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2027266
M35634	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1821368
M35634	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1782147
M35634	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1861961
M35634	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1847926
M35634	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2631093
M35635	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09059911
M35635	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11414288
M35635	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09373148
M35635	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1075371
M35635	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0866601
M35635	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1760142
M35637	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2216172
M35637	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2678296
M35637	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3014474
M35639	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.1939594
M35639	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2512284
M35651	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1148661
M35651	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08509355
M35651	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0864686
M35651	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.1198006
M35651	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0871448
M35651	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0864686
M35651	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.14412309
M35651	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0864686
M35651	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.09542755
M35651	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0929081
M35651	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0864686
M35651	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0864686
M35651	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.09005
M35651	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.0850928
M35651	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.12317561
M35651	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0864686
M35651	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0864686
M35651	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.09290806
M35651	class	k__Bacteria.p__GN02.c__BD1.5	0.09397476
M35651	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1673149
M35651	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0929081
M35651	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1166571
M35651	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1050736
M35651	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1776187
M35651	class	k__Bacteria.p__TM6.c__SJA.4	0.09356129
M35651	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1211357

M35651	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1242717
M35651	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.16783
M35665	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.27037294
M35665	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.18991687
M35665	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.25602296
M35665	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.23831752
M35665	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.19369584
M35665	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.27463398
M35665	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.2428132
M35665	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.1917518
M35665	class	k__Bacteria.p__OD1.c__ZB2	0.30913482
M35665	class	k__Bacteria.p__Planctomycetes.c__OM190	0.25765218
M35665	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.2161913
M35665	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.29317459
M35665	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.21377516
M35669	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.28277297
M35675	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.08399379
M35675	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.08969957
M35675	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09298667
M35678	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0911361
M35678	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.097039
M35718	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.07643979
M35718	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08612001
M35718	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0717436
M35718	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2370833
M35718	class	k__Bacteria.p__Tenericutes.c__RF3	-0.159908
M35718	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0768651
M35718	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2233287
M35879	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11444206
M35879	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10744541
M35892	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1150734
M36103	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0980705
M36103	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08893345
M36103	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1363144
M36103	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.0908771
M36103	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08894752
M36103	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.1257036
M36103	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.09056935
M36103	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.1185221
M36103	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1573918
M36103	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1031454
M36103	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1203986
M36103	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1241143
M36103	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1246933
M36103	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1224957
M36103	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1392152
M36103	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1617747
M36103	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1357847
M36600	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.20395528
M36600	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.28136168

M36600	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.32412457
M36600	class	k__Bacteria.p__OD1.c__ZB2	0.24369562
M36600	class	k__Bacteria.p__Planctomycetes.c__OM190	0.22224931
M36600	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1986383
M36600	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.17804651
M36600	class	k__Bacteria.p__TM7.c__TM7.3	-0.2771107
M36600	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.21664796
M36600	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2014238
M36600	class	k__Bacteria.p__WS3.c__PRR.12	-0.2653172
M36649	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.17523048
M36649	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.17981736
M36649	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.23525028
M36649	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.18172767
M36649	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.2037059
M36649	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.2123244
M36659	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.0771627
M36659	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1782709
M36659	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0932538
M36659	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1640395
M36659	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1941962
M36659	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0962889
M36713	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08724082
M36713	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.081456
M36713	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09537284
M36713	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.1381768
M36713	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1036439
M36713	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2154485
M36738	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09969224
M36738	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08995312
M36738	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0827231
M36738	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08063538
M36738	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0801348
M36746	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1052007
M36747	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11820537
M36747	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.11732184
M36747	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1289133
M36749	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.1123034
M36749	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1184798
M36749	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.11201
M36749	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.09393037
M36749	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0923765
M36749	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.17111225
M36749	class	k__Bacteria.p__Tenericutes.c__RF3	0.24068413
M36749	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.09597435
M36749	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.17611112
M36751	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.100621
M36751	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.13091764
M36751	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08474856
M36751	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1218451
M36751	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1178603

M36751	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1272632
M36751	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1410576
M36751	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1313937
M36752	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.093941
M36752	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1418026
M36752	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1111744
M36752	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1175342
M36752	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0904341
M36752	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1086236
M36752	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1310998
M36752	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0984352
M36754	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1029054
M36754	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0978862
M36754	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0876334
M36754	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0815213
M36754	class	k__Bacteria.p__Tenericutes.c__RF3	0.11699776
M36770	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.13440832
M36770	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10725863
M36808	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09254886
M36808	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08190966
M36808	class	k__Bacteria.p__Tenericutes.c__RF3	-0.10628
M36808	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1697302
M36850	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.1831462
M36850	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.18429206
M36850	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1795164
M36850	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1788718
M36850	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.18016294
M36850	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.18430014
M36850	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.17914735
M37058	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2328761
M37058	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.209392
M37058	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.2383047
M37058	class	k__Bacteria.p__Tenericutes.c__RF3	0.34845546
M37063	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1500263
M37063	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0817126
M37063	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1220711
M37069	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.07952496
M37069	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.085785
M37069	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1341
M37069	class	k__Bacteria.p__OD1.c__ZB2	-0.0875062
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M37069	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0911563
M37069	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1159957
M37069	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2179317
M37069	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1688654
M37069	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0958105
M37069	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1464676
M37070	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1234669
M37070	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10626932
M37070	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1048575

M37076	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0756267
M37076	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0809868
M37076	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0753569
M37076	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0756267
M37076	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.09018094
M37076	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0756267
M37076	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.07753275
M37076	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1173153
M37076	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0756267
M37076	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0756267
M37076	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.090915
M37076	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0756267
M37076	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0756267
M37076	class	k__Bacteria.p__GN02.c__BD1.5	0.07669974
M37076	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0846848
M37093	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0959242
M37139	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2717836
M37139	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.28446016
M37139	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.3464676
M37139	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.396853
M37139	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2264714
M37139	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.30341542
M37139	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.3600333
M37139	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2823317
M37188	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1684725
M37188	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2308683
M37188	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.1679824
M37188	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2641631
M37188	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2361082
M37188	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1836628
M37188	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2957263
M37188	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2852761
M37191	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2537517
M37191	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2162154
M37191	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.24142051
M37191	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1914767
M37191	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.26978918
M37191	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1912625
M37191	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2233941
M37191	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.20572047
M37191	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2279753
M37191	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.21509519
M37191	class	k__Bacteria.p__WS3.c__PRR.12	-0.1958828
M37196	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.27797837
M37196	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5116673
M37196	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3959088
M37196	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2770069
M37196	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.4275143
M37199	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.21153242
M37202	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.21747157

M37202	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.26395484
M37202	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.24820981
M37202	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3970037
M37202	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5555711
M37202	class	k__Bacteria.p__Tenericutes.c__RF3	-0.563292
M37202	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2591691
M37202	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.43686
M37203	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.26953958
M37203	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.19527851
M37203	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.1915284
M37203	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.18134177
M37203	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.1935554
M37203	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3604276
M37203	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5039099
M37203	class	k__Bacteria.p__Tenericutes.c__RF3	-0.6190337
M37203	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2256909
M37203	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.4164068
M37207	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.18671544
M37207	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1834047
M37207	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1675624
M37207	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.1777126
M37207	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3391421
M37207	class	k__Bacteria.p__TM7.c__TM7.3	-0.198227
M37207	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3249336
M37207	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2502255
M37207	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.1916163
M37207	class	k__Bacteria.p__WS3.c__PRR.12	-0.2373727
M37211	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3043044
M37211	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2635766
M37211	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.23248311
M37211	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2479701
M37211	class	k__Bacteria.p__Tenericutes.c__RF3	-0.6036464
M37211	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2649821
M37211	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5122529
M37431	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1207355
M37431	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.07823092
M37431	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08183255
M37431	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.08501803
M37431	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.0822601
M37431	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1277814
M37431	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1106367
M37431	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1589917
M37431	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1960907
M37431	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1151876
M37431	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0881906
M37432	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.19369081
M37432	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.268651
M37443	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1235175
M37443	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0876064
M37443	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08463059

M37443	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0971721
M37443	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.09240577
M37443	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0883035
M37443	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0846908
M37443	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0864289
M37443	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0840746
M37455	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0805982
M37455	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.115133
M37455	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.10020744
M37455	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.13246961
M37455	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.13722624
M37455	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.11070627
M37456	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2108181
M37456	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2195916
M37456	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2110425
M37456	class	k__Bacteria.p__TM7.c__TM7.3	0.20842837
M37456	class	k__Bacteria.p__WS3.c__PRR.12	0.21545111
M37458	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11427005
M37458	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0893974
M37458	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1063817
M37458	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1533112
M37458	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1209017
M37458	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1292153
M37465	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2163524
M37465	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.20711805
M37465	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.1790077
M37465	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1835573
M37465	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.19629927
M37465	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.18018731
M37465	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2148417
M37465	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1925982
M37496	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0842178
M37496	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.13827995
M37496	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08255426
M37496	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.16084913
M37496	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08369794
M37496	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.12809015
M37496	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1024333
M37496	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0893472
M37496	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1912375
M37501	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08642114
M37501	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.116931
M37501	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08227967
M37502	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0810352
M37502	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0846895
M37502	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0911141
M37502	class	k__Bacteria.p__GN02.c__BD1.5	0.08001319
M37502	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0911897
M37502	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08905931
M37506	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10234781

M37506	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.10575501
M37506	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.11555673
M37506	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.16105761
M37506	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.11389339
M37508	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.20521327
M37508	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.20896196
M37508	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.24441575
M37508	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.199789
M37508	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2849185
M37508	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.21911622
M37508	class	k__Bacteria.p__TM6.c__SJA.4	0.26369652
M37508	class	k__Bacteria.p__TM7.c__TM7.3	0.272047
M37508	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.21723189
M37508	class	k__Bacteria.p__WS3.c__PRR.12	0.3376991
M37752	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.099044
M37752	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11782576
M37752	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0950452
M37752	class	k__Bacteria.p__Tenericutes.c__RF3	-0.126352
M37752	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1549755
M38102	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.108668
M38102	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.13891147
M38102	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1071535
M38102	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1713415
M38105	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.226674
M38105	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.3256842
M38105	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1975219
M38109	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.0808992
M38109	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1368187
M38109	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0917805
M38116	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.09663626
M38116	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.10125211
M38116	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1015202
M38116	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.11552847
M38116	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.08891041
M38116	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0989328
M38116	class	k__Bacteria.p__WS3.c__PRR.12	-0.1072074
M38125	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08327867
M38125	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.09126023
M38125	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.08405
M38125	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.08126675
M38125	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08328131
M38125	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.08773567
M38125	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0945596
M38125	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.08464066
M38125	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1009159
M38127	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.1688248
M38127	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.23361246
M38127	class	k__Bacteria.p__Tenericutes.c__RF3	0.18291281
M38127	class	k__Bacteria.p__Thermi.c__Deinococci	0.17363596
M38165	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.12133089

M38165	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.08346716
M38165	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14461675
M38165	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09110322
M38165	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.08527601
M38165	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1395058
M38167	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2238888
M38167	class	k__Bacteria.p__Cyanobacteria.c__4COd.2	-0.2535414
M38167	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3399792
M38167	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2631337
M38167	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5080073
M38167	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5563341
M38167	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2766883
M38167	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2385264
M38175	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.21869622
M38175	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.23847659
M38183	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1549137
M38183	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1039433
M38271	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.125079
M38271	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.0855091
M38271	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0871184
M38271	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.1049408
M38271	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.131057
M38271	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0888833
M38271	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.108242
M38271	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1413516
M38273	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08783583
M38273	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11923785
M38273	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14885717
M38273	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1181449
M38273	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1235786
M38273	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1770391
M38276	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.09646252
M38276	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.13190359
M38276	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0810788
M38276	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0860072
M38276	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.086347
M38276	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0987751
M38276	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.13268367
M38276	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.1319108
M38276	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1107781
M38276	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.08634698
M38276	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.13216226
M38276	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.0894423
M38276	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.086347
M38276	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.109155
M38276	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.08594605
M38288	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.2043699
M38288	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2003353
M38288	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1950084
M38288	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.23727643

M38293	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09871065
M38293	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.10379147
M38293	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0916784
M38293	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.09686132
M38293	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.0906391
M38293	class	k__Bacteria.p__Tenericutes.c__RF3	0.11478637
M38293	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.11929747
M38296	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1000532
M38296	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.083387
M38296	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0852481
M38296	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.0878113
M38296	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.13812784
M38313	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.28570648
M38313	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.19989632
M38313	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.1974718
M38313	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.199105
M38313	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1832823
M38313	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.1964083
M38313	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.1974718
M38313	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.1974718
M38313	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1841455
M38313	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3185634
M38313	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.1986651
M38313	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2894781
M38313	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.1974718
M38313	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.1980212
M38313	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2276079
M38313	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.3124095
M38313	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.1974718
M38313	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.22817277
M38313	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.19993809
M38313	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1949217
M38313	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.1974718
M38313	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.1974718
M38313	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1784194
M38313	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.19866357
M38313	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2120996
M38313	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.19667382
M38313	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2602191
M38313	class	k__Bacteria.p__GN02.c__BD1.5	0.19760193
M38313	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2467835
M38313	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3200414
M38313	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2450393
M38313	class	k__Bacteria.p__OD1.c__ZB2	-0.2160332
M38313	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2620805
M38313	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.1986651
M38313	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.2318298
M38313	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.2334321
M38313	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1830177
M38313	class	k__Bacteria.p__TM6.c__SJA.4	0.36688236

M38313	class	k__Bacteria.p__TM7.c__TM7.3	0.23171474
M38313	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.1966246
M38313	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2278868
M38313	class	k__Bacteria.p__WS3.c__PRR.12	0.3018089
M38395	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1437293
M38395	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1119046
M38395	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08091594
M38395	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.08343193
M38395	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1004671
M38395	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1430019
M38395	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1308825
M38395	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1379874
M38395	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1625126
M38395	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1025233
M38395	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2133051
M38395	class	k__Bacteria.p__WS3.c__PRR.12	-0.0848302
M38399	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1910422
M38399	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1239931
M38399	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1030445
M38399	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0841703
M38399	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0947854
M38399	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1217123
M38399	class	k__Bacteria.p__OD1.c__ZB2	-0.0877483
M38399	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1016529
M38399	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1947998
M38399	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1553369
M38399	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1985879
M38399	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1202822
M38399	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1812375
M38625	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10328024
M38625	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11835248
M38625	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1389665
M38625	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1042833
M38625	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1480065
M38652	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.18527018
M38654	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.21555379
M38654	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.24760787
M38654	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2715839
M38654	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.23757879
M38654	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.32796257
M38665	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.10210764
M38667	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.23210437
M38667	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.21491702
M38667	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.20178652
M38667	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.23629094
M38667	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3825603
M38667	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.23861189
M38672	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10880031
M38672	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08843849
M38672	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1037599

M38672	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1044964
M38672	class	k__Bacteria.p__WS3.c__PRR.12	0.09551412
M38696	class	k__Bacteria.p__Tenericutes.c__RF3	0.09166212
M38749	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1476745
M38749	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1301383
M38749	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09157873
M38749	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.104267
M38749	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.08691492
M38768	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08240145
M38768	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0901731
M38768	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0895955
M38768	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.118823
M38768	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.12942888
M38768	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.09209686
M38768	class	k__Bacteria.p__Tenericutes.c__RF3	0.1525026
M38768	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.12990643
M39270	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.2484098
M39270	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2114849
M39270	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2680113
M39270	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2111614
M39270	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2114849
M39270	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.34108668
M39270	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2114849
M39270	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.3073103
M39270	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.21690042
M39270	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2114849
M39270	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.29007615
M39270	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2114849
M39270	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.2177621
M39270	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2930021
M39270	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2359
M39270	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2114849
M39270	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2114849
M39270	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.3022872
M39270	class	k__Bacteria.p__GN02.c__BD1.5	0.22768434
M39270	class	k__Bacteria.p__TM7.c__TM7.3	-0.4139583
M39270	class	k__Bacteria.p__Thermi.c__Deinococci	-0.3101797
M39270	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2286644
M39270	class	k__Bacteria.p__WS3.c__PRR.12	-0.3402747
M39271	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08559783
M39271	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0853842
M39271	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10696933
M39271	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1264509
M39271	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1066169
M39271	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.11773509
M39271	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.0998711
M39271	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1254146
M39379	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.18163789
M39379	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19688854
M39583	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08432343

M39583	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10170383
M39583	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1047553
M39583	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1277649
M39583	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1475152
M39583	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1610956
M39587	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0971185
M39587	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0801054
M39587	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.0834288
M39587	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.0820929
M39587	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09787746
M39587	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.0844766
M39587	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1243961
M39592	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22671875
M39592	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3053702
M39592	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1869546
M39592	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2653348
M39592	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1916884
M39592	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.234193
M39598	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.17811231
M39598	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2307561
M39598	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1975315
M39598	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2252962
M39598	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2305228
M39598	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.17339888
M39626	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1079105
M39626	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0811636
M39626	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0909139
M39626	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0857179
M39630	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2755935
M39630	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1657582
M39630	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2560714
M39630	class	k__Bacteria.p__TM7.c__TM7.3	-0.2152333
M39630	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2075252
M39630	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2192437
M39630	class	k__Bacteria.p__WS3.c__PRR.12	-0.1879918
M39777	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.20324301
M39777	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2867364
M39788	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0809773
M39788	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.083339
M39788	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0989215
M39788	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.104048
M39994	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0953456
M39994	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08280876
M39994	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1276466
M39994	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0877635
M39994	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.095671
M40006	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.18185478
M40006	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.24943674
M40008	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1519688
M40008	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1221841

M40008	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1301125
M40008	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1420585
M40010	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0840406
M40010	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0902598
M40020	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.19292895
M40020	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.20717861
M40020	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.21392367
M40040	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.25415125
M40040	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.20497837
M40040	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.30792225
M40040	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.24010097
M40040	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.26011285
M40040	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.211836
M40040	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.27954114
M40040	class	k__Bacteria.p__OD1.c__ZB2	0.24535437
M40040	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.21794286
M40040	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.21904305
M40045	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08139631
M40045	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1013814
M40045	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08908993
M40045	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08871713
M40045	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0897866
M40045	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1082158
M40084	class	k__Archaea.p__Crenarchaeota.c__MCG	0.075783
M40084	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.07541553
M40084	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.13208537
M40084	class	k__Bacteria.p__OD1.c__ZB2	0.08290043
M40084	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.07997454
M40084	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.09048929
M40084	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.09381107
M40084	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0796786
M40097	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11812299
M40097	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1011124
M40173	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.09302585
M40173	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0788146
M40173	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.085633
M40406	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0910258
M40406	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.08298792
M40406	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09529809
M40406	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.10474231
M40406	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10949817
M40406	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0839622
M40406	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.125294
M40406	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0870507
M40406	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0917461
M40406	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1180085
M40410	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1065553
M40410	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0939297
M40410	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1669737
M40410	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.112059

M40410	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1090812
M40410	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1921988
M40410	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1896421
M40410	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1524498
M40452	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1378987
M40452	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08258281
M40452	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.07923325
M40452	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1004386
M40452	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.07956336
M40464	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.2308026
M40464	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.26488562
M40464	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.21805745
M40464	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.41183812
M40464	class	k__Bacteria.p__Tenericutes.c__RF3	0.3644447
M40464	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.17603086
M40473	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.22637037
M40473	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2341132
M40473	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2717841
M40473	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.3705238
M40473	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.4532263
M40473	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.3608815
M40473	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.271603
M40473	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.5392432
M40473	class	k__Bacteria.p__OD1.c__ZB2	-0.4088562
M40473	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.4076647
M40473	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.2692145
M40473	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.3783625
M40473	class	k__Bacteria.p__TM7.c__TM7.3	0.30914134
M40473	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.3915084
M40473	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.3092712
M40473	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.2806969
M40475	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08561091
M40475	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1507825
M40475	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09415208
M40479	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.10465238
M40479	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1400681
M40479	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1432301
M40479	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2180569
M40479	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1724072
M40479	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0797479
M40481	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0818855
M40481	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.0822377
M40481	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.08785046
M40481	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1040487
M40481	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1026096
M40499	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.17457456
M40499	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.18533106
M40499	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.19409701
M40499	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.20323071
M40506	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2800677

M40506	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.17500824
M40506	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.17761527
M40506	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.21439514
M40506	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1801678
M40506	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3291365
M40506	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2170053
M40506	class	k__Bacteria.p__TM7.c__TM7.3	-0.2732013
M40506	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3844653
M40506	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2030033
M40506	class	k__Bacteria.p__WS3.c__PRR.12	-0.2705766
M40700	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.1039166
M40700	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0994623
M40703	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.2081204
M40703	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2291749
M40703	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.30013645
M40703	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.25955493
M40703	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.25703437
M40703	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1879049
M40703	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2072207
M40730	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0948582
M40730	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.10103386
M40730	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0860626
M40730	class	k__Bacteria.p__Tenericutes.c__RF3	-0.112775
M40730	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0977261
M40730	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0807255
M40732	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.18331564
M40732	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.3803767
M40732	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.1886537
M40732	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.3177927
M40732	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.3974951
M40732	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.1750153
M40732	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2368092
M40732	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.188307
M40732	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2555356
M40732	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3661414
M40732	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.172339
M40732	class	k__Bacteria.p__OD1.c__ZB2	-0.2213688
M40732	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.177926
M40732	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.3579976
M40732	class	k__Bacteria.p__Thermi.c__Deinococci	0.23820793
M40732	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2080238
M40732	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.18059107
M40732	class	k__Bacteria.p__WS3.c__PRR.12	0.20204023
M41370	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.10553252
M41370	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0922626
M41370	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.08160089
M41370	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08903965
M41374	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1401865
M41374	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0837364
M41515	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08289219

M41515	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09138957
M41515	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.15211
M41515	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0873228
M41515	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1346836
M41515	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0885949
M41515	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1283944
M41609	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.18812286
M41888	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09227165
M41888	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12469241
M41888	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.08807593
M41888	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.10617917
M41888	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1013204
M42027	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.20269497
M42027	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.2127154
M42027	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.22134081
M42027	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.29752369
M42027	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.26797562
M42027	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.20141567
M42027	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.25192037
M42027	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.1967607
M42027	class	k__Bacteria.p__OD1.c__ZB2	0.22152663
M42027	class	k__Bacteria.p__Planctomycetes.c__OM190	0.27665329
M42079	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09785973
M42079	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0995843
M42081	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2683391
M42081	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2830209
M42081	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2060634
M42081	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.32930658
M42081	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.22829022
M42081	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.4787018
M42081	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2310081
M42081	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.2181917
M42081	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2500693
M42081	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.33438304
M42081	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2108151
M42081	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3391617
M42081	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2024314
M42081	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.211231
M42081	class	k__Bacteria.p__TM7.c__TM7.3	-0.2759703
M42081	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2756727
M42081	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2962876
M42081	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3004558
M42081	class	k__Bacteria.p__WS3.c__PRR.12	-0.2925566
M42092	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.20394202
M42092	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.18137513
M42092	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.21595949
M42092	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.17255259
M42094	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.21353814
M42094	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.1899894
M42094	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.25283955

M42109	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.11435139
M42370	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1367171
M42374	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0825735
M42374	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.1194692
M42395	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0955071
M42395	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1227245
M42395	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.111411
M42395	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.113315
M42395	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0799821
M42395	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1081595
M42395	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1813679
M42395	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1104373
M42395	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.07751068
M42395	class	k__Bacteria.p__Tenericutes.c__RF3	0.0952483
M42398	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.10784358
M42398	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1005122
M42398	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1059807
M42398	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0951643
M42398	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.12398677
M42398	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.11644017
M42398	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.08965635
M42398	class	k__Bacteria.p__Tenericutes.c__RF3	0.10552638
M42398	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.16499123
M42398	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.0933771
M42420	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0936315
M42420	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12800823
M42420	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1207581
M42420	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1561487
M42420	class	k__Bacteria.p__TM7.c__TM7.3	-0.1142999
M42420	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0948605
M42420	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1054322
M42420	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.126676
M42420	class	k__Bacteria.p__WS3.c__PRR.12	-0.1066109
M42449	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.27244702
M42449	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.21054247
M42449	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.21697136
M42449	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.20318253
M42449	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.28407906
M42449	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.3327295
M42449	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.36351186
M42449	class	k__Bacteria.p__TM7.c__TM7.3	-0.2592703
M42449	class	k__Bacteria.p__Tenericutes.c__RF3	0.22738846
M42449	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2963051
M42449	class	k__Bacteria.p__WS3.c__PRR.12	-0.2614289
M42489	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1160399
M42489	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1118573
M42489	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0832215
M42489	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1051094
M42489	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1443179
M42489	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1362871

M42489	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1401664
M42489	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0893974
M42971	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08474948
M42971	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.09865053
M42971	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09412977
M42971	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1291711
M42971	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.10093695
M42975	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.190816
M42975	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2217716
M42975	class	k__Bacteria.p__Tenericutes.c__RF3	0.2251657
M42978	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10797857
M42978	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.10001034
M42978	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.106977
M42978	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.0994122
M42978	class	k__Bacteria.p__Tenericutes.c__RF3	0.12150234
M42978	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.08262622
M42978	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.16890962
M42989	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.20198491
M42989	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2267955
M42989	class	k__Bacteria.p__Acidobacteria.c__iii1.8	-0.1893316
M42989	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.18582965
M42989	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.23066889
M42989	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2563716
M42989	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.23342945
M42989	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2154775
M42989	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22136792
M42989	class	k__Bacteria.p__TM7.c__TM7.3	0.24039553
M42989	class	k__Bacteria.p__Thermi.c__Deinococci	0.22509399
M42989	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.20718703
M42989	class	k__Bacteria.p__WS3.c__PRR.12	0.18197475
M42993	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2400719
M42993	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1719312
M42993	class	k__Bacteria.p__Tenericutes.c__RF3	-0.249333
M42993	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2747301
M42994	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.30188664
M42994	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.29265548
M42999	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.4259443
M42999	class	k__Bacteria.p__Tenericutes.c__RF3	-0.235452
M43023	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1491949
M43023	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0916211
M43023	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1123843
M43023	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1336674
M43023	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1385762
M43023	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.15017995
M43026	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0908616
M43026	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0970841
M43026	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0796285
M43027	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0808987
M43027	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09381914
M43027	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0977909

M43027	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.123607
M43027	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0820824
M43027	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	-0.0838875
M43027	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09853074
M43027	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.09380101
M43027	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.0853303
M43027	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.09359276
M43027	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0995358
M43027	class	k__Bacteria.p__OD1.c__ZB2	-0.0963954
M43027	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.0945523
M43027	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1500627
M43027	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0965112
M43027	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1070917
M43027	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.084588
M43027	class	k__Bacteria.p__TM6.c__SJA.4	0.09132877
M43027	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.077446
M43028	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0881402
M43028	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09851249
M43028	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.09644465
M43028	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.09505336
M43028	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.11215454
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M43028	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.09365315
M43028	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1166547
M43231	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.10273451
M43231	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0930022
M43231	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.10111815
M43231	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1025249
M43231	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1112731
M43231	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1046111
M43231	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0937106
M43231	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1056769
M43231	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1163187
M43249	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08178826
M43249	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0870282
M43249	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1386335
M43249	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.10011163
M43249	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0810191
M43249	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1232973
M43249	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1259022
M43249	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.155715
M43249	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1000261
M43249	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1300848
M43249	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0883061
M43249	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1856087
M43255	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2090309
M43255	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.24027721
M43255	class	k__Bacteria.p__TM7.c__TM7.3	0.24185787
M43255	class	k__Bacteria.p__WS3.c__PRR.12	0.26142033
M43256	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.2842903

M43256	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.27312352
M43256	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.1963527
M43256	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.1983358
M43256	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.1963527
M43256	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.1963527
M43256	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.21035978
M43256	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2881849
M43256	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.2128851
M43256	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.1963527
M43256	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.1963527
M43256	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.2076328
M43256	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.27850551
M43256	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.27313058
M43256	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.1963527
M43256	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.1963527
M43256	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.21288506
M43256	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.26070453
M43256	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.2468846
M43256	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.290143
M43256	class	k__Bacteria.p__GN02.c__BD1.5	0.20585379
M43256	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2004535
M43256	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.1960981
M43256	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.2128851
M43256	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2280769
M43256	class	k__Bacteria.p__TM6.c__SJA.4	0.22414938
M43256	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2749231
M43258	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.093656
M43258	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1204742
M43258	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10624398
M43258	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0887102
M43258	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0965601
M43258	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0993362
M43374	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1142417
M43374	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1002028
M43374	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1082955
M43374	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.0949009
M43374	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0835222
M43374	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.08404005
M43392	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2208533
M43392	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2522389
M43392	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.23134218
M43392	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3616732
M43392	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.3208908
M43392	class	k__Bacteria.p__TM6.c__SJA.4	0.21451101
M43392	class	k__Bacteria.p__TM7.c__TM7.3	0.30528933
M43392	class	k__Bacteria.p__Thermi.c__Deinococci	0.21291397
M43392	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.3595559
M43392	class	k__Bacteria.p__WS3.c__PRR.12	0.30408991
M43400	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09597087
M43400	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0960513

M43400	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0857816
M43412	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0856267
M43412	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0854186
M43449	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.14285302
M43449	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.1090074
M43449	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.14419686
M43449	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.20734
M43449	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.1075833
M43449	class	k__Bacteria.p__Tenericutes.c__RF3	0.10824644
M43449	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.10735716
M43449	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.14365542
M43493	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1062751
M43493	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0976192
M43493	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0937637
M43493	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0870022
M43493	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0916931
M43493	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0957487
M43496	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2923522
M43506	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1092841
M43506	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0899304
M43506	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1493883
M43506	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.093008
M43506	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1124453
M43507	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0986845
M43507	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0906041
M43507	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12655525
M43507	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0923574
M43507	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12892746
M43507	class	k__Bacteria.p__Tenericutes.c__RF3	0.107687
M43530	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0761996
M43530	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08796181
M43530	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.10518645
M43530	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.07601957
M43530	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1597492
M43530	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.08104851
M43530	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1005119
M43530	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1308812
M43530	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1724447
M43530	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1168755
M43530	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1219191
M43535	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.29087394
M43535	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.25159302
M43535	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.2963616
M43535	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.25986913
M43535	class	k__Bacteria.p__TM6.c__SJA.4	0.3629514
M43535	class	k__Bacteria.p__TM7.c__TM7.3	0.31859984
M43535	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.25113575
M43535	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.28911248
M43535	class	k__Bacteria.p__WS3.c__PRR.12	0.48958744
M43586	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.2712025

M43586	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3190445
M43586	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2463505
M43586	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2520314
M43586	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2276191
M43586	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2528772
M43586	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.2480682
M43586	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2989526
M43586	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2740443
M43586	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.3602213
M43591	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.21132094
M43591	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.20959603
M43591	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.244834
M43591	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.194576
M43591	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2324448
M43761	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.2660628
M43761	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.3716241
M43761	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2486021
M43761	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.306126
M43761	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.3374556
M43761	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2459254
M43761	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2486021
M43761	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.38534921
M43761	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2486021
M43761	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.2335709
M43761	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2486021
M43761	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2486021
M43761	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.261151
M43761	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.3431774
M43761	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.38525332
M43761	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.3437757
M43761	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2486021
M43761	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2486021
M43761	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.23357158
M43761	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2738313
M43761	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2656508
M43761	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3190335
M43761	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2542892
M43761	class	k__Bacteria.p__OD1.c__ZB2	-0.2826114
M43761	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2678441
M43761	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.2335709
M43761	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.2925277
M43761	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.2528849
M43761	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.367639
M43761	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3287539
M43761	class	k__Bacteria.p__TM7.c__TM7.3	-0.2897267
M43761	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2636675
M43761	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.2939667
M43761	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.3016122
M43761	class	k__Bacteria.p__WS3.c__PRR.12	-0.3238984
M43802	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.2291329

M43802	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.21351309
M43802	class	k__Bacteria.p__TM7.c__TM7.3	0.2096257
M43802	class	k__Bacteria.p__WS3.c__PRR.12	0.28284407
M43807	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.13640917
M43807	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.09021777
M43807	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09960394
M43807	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09757126
M43807	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.13023954
M43829	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.22482144
M43829	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.2344744
M43829	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.2228782
M43830	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.20804262
M43830	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.35884779
M43830	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.20155852
M43830	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.23926875
M43830	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2319629
M43831	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.24568896
M43831	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.18763203
M43831	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2801277
M43847	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.093261
M43847	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09490045
M43847	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.109949
M44526	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1148033
M44526	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0860981
M44577	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0887105
M44577	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1064313
M44577	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.098311
M44577	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1292402
M44621	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.21158777
M44621	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.17925745
M44621	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1744949
M44621	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2757185
M44621	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.18104102
M44621	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2651992
M44621	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.17792017
M44621	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1959064
M44621	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.1668548
M44621	class	k__Bacteria.p__TM6.c__SJA.4	0.19584987
M44644	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.19467256
M44644	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.22841561
M44644	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.17183028
M44644	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.19369372
M44644	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.19638674
M44644	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.210489
M44644	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.22065068
M44644	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.24391658
M44644	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.20460168
M44644	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.21761778
M44644	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2252728
M44656	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0895315

M44656	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.09601014
M44663	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2379881
M44675	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1125704
M44675	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09054594
M44675	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.1023505
M44675	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.215342
M44675	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1261604
M44675	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1781449
M44681	class	k__Archaea.p__Crenarchaeota.c__MCG	0.2088934
M44681	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.23424984
M44681	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2317018
M44681	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.22809312
M44681	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.25468877
M44681	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.35478412
M44681	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.22786569
M44681	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.2949273
M44681	class	k__Bacteria.p__TM7.c__TM7.3	0.33541484
M44681	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.2262301
M44681	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.3025939
M44688	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.21350736
M44688	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2622502
M44688	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.2476431
M44688	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.22743504
M44688	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2507478
M44872	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1310861
M44872	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0897945
M44872	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0977963
M44872	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1171304
M44872	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0833633
M44872	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1030186
M44876	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1856926
M44876	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.23659702
M44876	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1938105
M44877	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14352931
M44877	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08435634
M44877	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1172683
M44877	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0934457
M44878	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.20730929
M44878	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.25699003
M44878	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.27824206
M44878	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.25695809
M44878	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.26314145
M44878	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.25724818
M44878	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2422084
M44878	class	k__Bacteria.p__TM6.c__SJA.4	0.20928538
M44878	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.2096799
M45413	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3524931
M45413	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.28308235
M45428	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0929208
M45428	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1282989

M45428	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.1018808
M45428	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.0875159
M45428	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1090182
M45428	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0909807
M45428	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0962609
M45428	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0848923
M45428	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0949678
M45428	class	k__Bacteria.p__TM7.c__TM7.3	-0.0975624
M45428	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0865961
M45428	class	k__Bacteria.p__WS3.c__PRR.12	-0.1045981
M45434	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09657577
M45434	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1604598
M45434	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1366271
M45434	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1259015
M45434	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1563153
M45434	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1343893
M45966	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.31988581
M45966	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.24315703
M45966	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.25838144
M45966	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.2614553
M45968	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19569869
M45968	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.31559309
M45968	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.26121026
M45968	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.19501889
M45968	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.18209647
M45968	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.1681579
M45968	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2110671
M45970	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1075286
M45970	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11386945
M45970	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10329251
M45970	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.13742713
M45986	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09362411
M45986	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0918566
M45986	class	k__Bacteria.p__Tenericutes.c__RF3	0.14109372
M45986	class	k__Bacteria.p__Thermi.c__Deinococci	-0.0848119
M45986	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.11590667
M46109	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.22736857
M46109	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.19694718
M46109	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.1824074
M46142	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1057965
M46144	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2287517
M46144	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2190151
M46144	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.18460461
M46144	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2416521
M46144	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2304555
M46144	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2276053
M46225	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0841604
M46225	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09607355
M46225	class	k__Bacteria.p__TM6.c__SJA.4	0.09549714
M46225	class	k__Bacteria.p__TM7.c__TM7.3	0.08545713

M46225	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0998696
M46283	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1365703
M46283	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.08402022
M46285	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2336486
M46285	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.20276931
M46285	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1974111
M46285	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.2016511
M46285	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.2267582
M46285	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2731407
M46285	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1983812
M46285	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2073666
M46285	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2660619
M46336	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10797502
M46336	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0865135
M46336	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.11082131
M46347	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.1809526
M46347	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.22131046
M46347	class	k__Bacteria.p__OD1.c__ZB2	0.20921473
M46347	class	k__Bacteria.p__Planctomycetes.c__OM190	0.1939852
M46347	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.17914703
M46347	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.30953181
M46347	class	k__Bacteria.p__TM6.c__SJA.4	-0.2153372
M46347	class	k__Bacteria.p__WS3.c__PRR.12	-0.2018451
M46355	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2243259
M46355	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2478577
M46355	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19754231
M46355	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2543643
M46355	class	k__Bacteria.p__TM6.c__SJA.4	0.21564674
M46355	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.232861
M46355	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.255877
M46355	class	k__Bacteria.p__WS3.c__PRR.12	0.21702608
M46371	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3516792
M46371	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.21399828
M46371	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3674591
M46371	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.351147
M46371	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2274292
M46371	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2883329
M46371	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2364845
M46398	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.228322
M46398	class	k__Bacteria.p__TM6.c__SJA.4	-0.2087056
M46398	class	k__Bacteria.p__TM7.c__TM7.3	-0.271086
M46398	class	k__Bacteria.p__WS3.c__PRR.12	-0.3412939
M46410	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1008343
M46410	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0866028
M46410	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1886063
M46410	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0794294
M46410	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0833485
M46410	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1533116
M46410	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1567298
M46410	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2302127

M46410	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1988972
M46455	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.18331169
M46455	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.19525337
M46455	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.18933248
M46455	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2619314
M46455	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.20071165
M46455	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.4677035
M46455	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4689586
M46455	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1844697
M46455	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2461896
M46463	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08476185
M46463	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.106417
M46463	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0973548
M46473	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1994097
M46473	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.196058
M46487	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2011675
M46487	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.22354695
M46487	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.24356933
M46487	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.28759543
M46487	class	k__Bacteria.p__Tenericutes.c__RF3	0.24660766
M46487	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.30911288
M46487	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2946733
M46493	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11607522
M46493	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14934192
M46493	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.1016033
M46493	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.11222647
M46493	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0856173
M46500	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.08724357
M46500	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09995052
M46500	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.13533793
M46500	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.0856939
M46500	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09754678
M46500	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1048173
M46500	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0977768
M46515	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.23901721
M46515	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.19319583
M46515	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.20240798
M46515	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3783201
M46515	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5312379
M46515	class	k__Bacteria.p__Tenericutes.c__RF3	-0.6053939
M46515	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3683303
M46517	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.1707704
M46517	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.19846388
M46517	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.18338154
M46517	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.18161789
M46517	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.17761221
M46537	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0867518
M46537	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0804288
M46537	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0851109
M46537	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1114419

M46539	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0837306
M46539	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0907079
M46539	class	k__Bacteria.p__Cyanobacteria.c__4COd.2	0.11758028
M46539	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.089212
M46597	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0964419
M46597	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.119146
M46597	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1329514
M46597	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0898269
M46597	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1545164
M46599	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.26893386
M46599	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.22188266
M46599	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22566135
M46599	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2736256
M46599	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.25035211
M46599	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.519364
M46599	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4957005
M46599	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.2118133
M46599	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5331132
M46604	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.21579902
M46604	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.19819141
M46604	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2099666
M46604	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.225208
M46604	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1766569
M46604	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.26526543
M46619	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0835617
M46619	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0767776
M46619	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0937046
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M46619	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0822224
M46619	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.080906
M46619	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.0860513
M46619	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0799909
M46619	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0823383
M46619	class	k__Bacteria.p__OD1.c__ZB2	-0.0947354
M46619	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0862447
M46619	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1021929
M46619	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1456848
M46619	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1812
M46619	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.092628
M46619	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2265555
M46632	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0993154
M46632	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1040251
M46632	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1140134
M46632	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1157122
M46632	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0833257
M46646	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.0866249
M46646	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0878172
M46646	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1069251
M46646	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.108909
M46661	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2061925

M46661	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.19040393
M46661	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2318737
M46661	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.3468967
M46661	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.1677102
M46661	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2689476
M46661	class	k__Bacteria.p__Acidobacteria.c__iii1.8	-0.189146
M46661	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.17997254
M46661	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.1729915
M46661	class	k__Bacteria.p__Caldithrix.c__KSB1	0.18057578
M46661	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.19156755
M46661	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2233281
M46661	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2318762
M46661	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2881915
M46661	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.1799718
M46661	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.2321426
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M46661	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.17997254
M46661	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.17344696
M46661	class	k__Bacteria.p__Tenericutes.c__RF3	0.23902543
M46661	class	k__Bacteria.p__Thermi.c__Deinococci	0.33481088
M46661	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.18805037
M46661	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.30591423
M46677	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2091262
M46677	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.1946844
M46677	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.219362
M46677	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.25268047
M46677	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2258148
M46677	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2090987
M46677	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.28033246
M46677	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.36086351
M46677	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.2204906
M46677	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.19501352
M46677	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.26043611
M46677	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.211349
M46677	class	k__Bacteria.p__OD1.c__ZB2	0.36808431
M46677	class	k__Bacteria.p__Planctomycetes.c__OM190	0.30024652
M46677	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.21874772
M46677	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.22162764
M46677	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.25317843
M46677	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2316517
M46677	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2003877
M46677	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.33331459
M46689	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1326507
M46689	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.108202
M46689	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0884186
M46705	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.1143189
M46705	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0849493
M46705	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0961174
M46705	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.09694012

M46705	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08469578
M46706	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.20443168
M46706	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.4322216
M46706	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3616857
M46706	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2259759
M46706	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.20904266
M46706	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2094609
M46707	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.0940997
M46707	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.09061767
M46707	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1240825
M46707	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.09430393
M46707	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08743013
M46738	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.097084
M46740	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08807987
M46740	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.15168888
M46740	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0863436
M46740	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.07762401
M46740	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0886441
M46740	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0760029
M46740	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0949101
M46798	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1692242
M46798	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.24695807
M46798	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.21393758
M46798	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2898354
M46798	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3118545
M46799	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.13250802
M46799	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.0894922
M46799	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.07903004
M46799	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1324664
M46898	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1126667
M46898	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12200219
M46898	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10514911
M46898	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1065475
M46960	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0770238
M46960	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0865558
M46960	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1036731
M46960	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.07839245
M46960	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.086125
M46960	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1527094
M46960	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0948614
M46960	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1530048
M46960	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0931627
M46960	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1195613
M46964	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2553503
M46972	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.07805824
M46972	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.1237807
M46972	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08184505
M46972	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.08916142
M46972	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.12634474
M46972	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.07653576

M46989	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.29172485
M46989	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2162812
M46989	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2255728
M47089	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1233251
M47089	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0873665
M47089	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0979884
M47089	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2627542
M47089	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0915757
M47089	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0871734
M47101	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09471526
M47101	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1131439
M47101	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1508798
M47113	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.19572576
M47123	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0796927
M47123	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.08541
M47123	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1323927
M47183	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1167132
M47183	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1261694
M47183	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.0895926
M47183	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0992178
M47194	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1058153
M47194	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1276308
M47194	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0919498
M47194	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1076153
M47194	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0923737
M47194	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0896566
M47194	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.124653
M47194	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0847746
M47195	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.111862
M47195	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1446901
M47195	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0938403
M47195	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0836651
M47195	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0888285
M47195	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0969815
M47195	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0851935
M47195	class	k__Bacteria.p__Tenericutes.c__RF3	-0.11219
M47195	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1238894
M47196	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1454983
M47196	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1261889
M47196	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08660917
M47196	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1286474
M47196	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1235869
M47197	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1441809
M47197	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1203178
M47197	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0981191
M47197	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10092687
M47197	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0844239
M47197	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.10668234
M47197	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.083057
M47197	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1182597

M47197	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1449507
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M47203	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1055745
M47203	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11076315
M47203	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.07666889
M47203	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1227847
M47203	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1348404
M47203	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1422091
M47203	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2345644
M47203	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0798801
M47203	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1927161
M47204	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0945709
M47204	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.0775551
M47204	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11201952
M47204	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09443032
M47204	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09018558
M47204	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1157059
M47204	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1245613
M47204	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1230532
M47204	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2025727
M47204	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1774606
M47205	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1994646
M47205	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2326502
M47205	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.2185823
M47205	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.21852741
M47205	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.1962068
M47205	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2482113
M47205	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2945521
M47205	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4198133
M47205	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2177681
M47205	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3875524
M47211	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.1961365
M47211	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.24344265
M47211	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.20652426
M47211	class	k__Bacteria.p__TM6.c__SJA.4	-0.2453681
M47217	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.10065191
M47217	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08759023
M47217	class	k__Bacteria.p__TM7.c__TM7.3	0.08741497
M47217	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0997722
M47217	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0888783
M47218	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1195549
M47218	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.088807
M47218	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.09084596
M47218	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09247556
M47218	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09765335
M47218	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.088851
M47218	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1084157
M47218	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1156783
M47218	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0869925
M47218	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1593153

M47218	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1282316
M47218	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1094854
M47223	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0796585
M47223	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.105139
M47223	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1203507
M47223	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1231679
M47224	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0757359
M47224	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.0882913
M47224	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08916752
M47224	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09481643
M47224	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1011303
M47224	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1205522
M47224	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1168388
M47227	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1135773
M47227	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0839898
M47227	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0901837
M47227	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1295886
M47227	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1003991
M47227	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1143989
M47227	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1016936
M47227	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1505632
M47230	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1458192
M47230	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11243217
M47230	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0921927
M47230	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.07880335
M47230	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0856659
M47230	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0873404
M47230	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0891856
M47231	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08764048
M47231	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.0808555
M47233	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0835177
M47233	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10212692
M47233	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.08288747
M47233	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0875671
M47237	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.3972099
M47237	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2197438
M47237	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2241463
M47237	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.2205601
M47237	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2651315
M47239	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0917949
M47239	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.07991649
M47247	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0841319
M47247	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0820746
M47247	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.16459158
M47247	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1336308
M47247	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1392302
M47247	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1162881
M47247	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.14619
M47254	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.27833849
M47254	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2539961

M47254	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.22148648
M47254	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.22885222
M47254	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.20387857
M47254	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.19263988
M47254	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.280957
M47254	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.22818754
M47254	class	k__Bacteria.p__TM6.c__SJA.4	-0.2102368
M47254	class	k__Bacteria.p__TM7.c__TM7.3	-0.271762
M47254	class	k__Bacteria.p__WS3.c__PRR.12	-0.3042827
M47255	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0875006
M47255	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1126345
M47255	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1417957
M47259	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.1915998
M47259	class	k__Bacteria.p__TM7.c__TM7.3	-0.2445322
M47259	class	k__Bacteria.p__WS3.c__PRR.12	-0.2663794
M47261	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2503454
M47261	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.18532624
M47261	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2291128
M47261	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.21121839
M47261	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.184604
M47261	class	k__Bacteria.p__TM7.c__TM7.3	-0.2139339
M47261	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3080783
M47261	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1998787
M47261	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3047838
M47263	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2121236
M47263	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2095808
M47263	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.17670597
M47263	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2568371
M47263	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.28770652
M47263	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3902948
M47263	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.27248298
M47263	class	k__Bacteria.p__Thermi.c__Deinococci	0.27526875
M47263	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.24619241
M47263	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1836879
M47265	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1046905
M47265	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1414189
M47265	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11171269
M47265	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1392475
M47265	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1311369
M47265	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1425968
M47265	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0971032
M47265	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2026821
M47265	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1036944
M47265	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1911523
M47266	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1135377
M47266	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1034705
M47266	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0829123
M47266	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1014918
M47266	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.094155
M47266	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0805423

M47266	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0972398
M47266	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1325715
M47267	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.129229
M47267	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1334201
M47267	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0898046
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M47267	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1090039
M47267	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0938996
M47267	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1407887
M47268	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09980402
M47268	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09778374
M47268	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08217023
M47268	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.09923934
M47268	class	k__Bacteria.p__OD1.c__ZB2	0.08826912
M47268	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.09877584
M47268	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.0876406
M47268	class	k__Bacteria.p__Tenericutes.c__RF3	0.14325463
M47268	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.160037
M47276	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0878773
M47276	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.10274465
M47276	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1042885
M47276	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1440356
M47276	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.130389
M47277	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1310148
M47277	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.09843163
M47280	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1045783
M47280	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0920011
M47280	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.083829
M47280	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.0939835
M47283	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.09133706
M47283	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1482615
M47283	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0784018
M47283	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.14022035
M47283	class	k__Bacteria.p__OD1.c__ZB2	0.11724544
M47283	class	k__Bacteria.p__Planctomycetes.c__OM190	0.09627972
M47283	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.09445335
M47283	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.11690167
M47283	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08401199
M47283	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.09255876
M47291	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0837308
M47291	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.0937611
M47291	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1916504
M47291	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1504356
M47291	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1483694
M47291	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1640463
M47291	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1428227
M47298	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.439065
M47298	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2372526
M47298	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.26933227
M47298	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.26854271

M47298	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3119172
M47298	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2258002
M47298	class	k__Bacteria.p__TM7.c__TM7.3	-0.2559045
M47298	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.429161
M47298	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2353424
M47298	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2725199
M47298	class	k__Bacteria.p__WS3.c__PRR.12	-0.3061664
M47307	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1454143
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M47307	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1280712
M47307	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0904485
M47307	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0917011
M47307	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1248161
M47307	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1234446
M47307	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1589181
M47308	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.20594204
M47308	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.20763687
M47308	class	k__Bacteria.p__Tenericutes.c__RF3	-0.198728
M47308	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2446793
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M47316	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1289061
M47316	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.140808
M47316	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0943914
M47316	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1230975
M47316	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1385788
M47316	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1791621
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M47317	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0921254
M47317	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.092188
M47317	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0989385
M47317	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1172486
M47317	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0928648
M47317	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1046992
M47320	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09440605
M47320	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1256046
M47320	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0864046
M47323	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.146068
M47323	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0885063
M47323	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08665774
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M47323	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.104801
M47323	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.09177176
M47323	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.079514
M47323	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0957236
M47323	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.1081751
M47328	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1205653
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M47328	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1286434

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M47335	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.24474379
M47335	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.2309258
M47335	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.24953224
M47335	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.16647996
M47335	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.26790842
M47335	class	k__Bacteria.p__OD1.c__ZB2	0.19132834
M47335	class	k__Bacteria.p__Planctomycetes.c__OM190	0.18152653
M47335	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.24106913
M47335	class	k__Bacteria.p__TM7.c__TM7.3	-0.2205051
M47335	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.18138259
M47335	class	k__Bacteria.p__WS3.c__PRR.12	-0.242286
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M47346	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2063454
M47346	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2699383
M47346	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2667989
M47346	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2759306
M47347	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1910555
M47347	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.22906149
M47347	class	k__Bacteria.p__TM7.c__TM7.3	-0.2387149
M47352	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2077322
M47352	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.26385206
M47352	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2768391
M47352	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1951288
M47352	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.333512
M47352	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4617847
M47352	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2349542
M47352	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5014386
M47353	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.11264781
M47353	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.10127809
M47353	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.08600565
M47353	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.0907848
M47353	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08733744
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M47353	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08815711
M47353	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.09142498
M47353	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0929104
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M47353	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.08751053
M47353	class	k__Bacteria.p__OD1.c__ZB2	0.1402496
M47353	class	k__Bacteria.p__Planctomycetes.c__OM190	0.12640754
M47353	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.12681132
M47353	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.11570102
M47353	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.12034384
M47353	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.11962169
M47353	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.13021331
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M47358	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.29011976

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M47358	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.28112838
M47358	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.34965698
M47358	class	k__Bacteria.p__OD1.c__ZB2	0.27020046
M47358	class	k__Bacteria.p__Planctomycetes.c__OM190	0.27651404
M47358	class	k__Bacteria.p__TM6.c__SJA.4	-0.2668313
M47358	class	k__Bacteria.p__TM7.c__TM7.3	-0.282637
M47358	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5537212
M47358	class	k__Bacteria.p__WS3.c__PRR.12	-0.3217832
M47359	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2236278
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M47359	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2337134
M47359	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2264931
M47359	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2034549
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M47380	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.096804
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M47380	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08399764
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M47380	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1310514
M47380	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.111079
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M47380	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1417407
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M47388	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1031763
M47388	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14980747
M47388	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1217009
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M47388	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1355681
M47388	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1384423
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M47391	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1253644
M47391	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1339634
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M47391	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1116332
M47391	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1011736
M47392	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2695779
M47392	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.238929
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M47392	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1974367
M47392	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1697349
M47392	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3773318
M47392	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1704757

M47392	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3104146
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M47431	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1198658
M47431	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0926762
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M47437	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.1526923
M47437	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.14880502
M47437	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12562047
M47437	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0971786
M47437	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.0834268
M47437	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1536431
M47437	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1047857
M47437	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1384932
M47439	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.11658085
M47439	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1221622
M47439	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1248697
M47439	class	k__Bacteria.p__Tenericutes.c__RF3	-0.147821
M47439	class	k__Bacteria.p__Thermi.c__Deinococci	-0.084139
M47439	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0980408
M47439	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0949168
M47497	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.18845187
M47497	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2280615
M47497	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.22584383
M47497	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2795573
M47497	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2755947
M47545	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1362369
M47545	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0934481
M47545	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.093788
M47545	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1003944
M47545	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1081537
M47545	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0925847
M47545	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1934089
M47545	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.1040559
M47545	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0930221
M47545	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0864965
M47545	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.146075
M47545	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0925864
M47619	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1157742
M47619	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1537734
M47619	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1177741
M47619	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1307494
M47619	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1607345
M47619	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0949746
M47639	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2651997
M47639	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.21173334
M47639	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.23124275
M47639	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.5114383
M47639	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2372607
M47639	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3029337

M47639	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5933604
M47639	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5716422
M47639	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.4204047
M47639	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.23175976
M47639	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2378576
M47642	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08431127
M47642	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0829815
M47642	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09200954
M47642	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08433607
M47642	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.07990024
M47642	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0909758
M47642	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0963634
M47642	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0920887
M47642	class	k__Bacteria.p__OD1.c__ZB2	-0.1022458
M47642	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.1060379
M47642	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1001065
M47642	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0908493
M47642	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1363469
M47642	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1551443
M47642	class	k__Bacteria.p__TM6.c__SJA.4	0.11998344
M47642	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1142081
M47643	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2139716
M47643	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3005181
M47643	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5559045
M47643	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5150662
M47673	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.2146797
M47673	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2358961
M47675	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.18740371
M47685	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.09280586
M47685	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0885794
M47685	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.086693
M47685	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.1077364
M47685	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0857237
M47685	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0979623
M47685	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.1149283
M47685	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0904665
M47685	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0863304
M47685	class	k__Bacteria.p__TM6.c__SJA.4	0.10619203
M47685	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0881739
M47686	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2115633
M47686	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2317641
M47686	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3137624
M47686	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2174555
M47686	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.208769
M47686	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.4101842
M47686	class	k__Bacteria.p__Tenericutes.c__RF3	-0.281257
M47686	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.4017005
M47687	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.09500943
M47687	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08644239
M47687	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10359772

M47687	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1477691
M47687	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0966415
M47687	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1249446
M47687	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1006374
M47687	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0854953
M47695	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.19733575
M47695	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2010554
M47695	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2127629
M47695	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3152503
M47706	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.20602759
M47706	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.18370411
M47706	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.25283465
M47706	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2965837
M47706	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2012926
M47709	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.175648
M47709	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.1741888
M47715	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.09688553
M47715	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.08427021
M47715	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0825537
M47715	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0822781
M47715	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0825537
M47715	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0825537
M47715	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.0888277
M47715	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0911654
M47715	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1926342
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M47715	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0825537
M47715	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0825537
M47715	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0860196
M47715	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.08427279
M47715	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0825537
M47715	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0825537
M47715	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.08362814
M47715	class	k__Bacteria.p__GN02.c__BD1.5	0.08092508
M47715	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0836281
M47715	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1043646
M47715	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1332843
M47718	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2016511
M47718	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.17390158
M47718	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.2000404
M47718	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1994591
M47787	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.095409
M47787	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08790803
M47787	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0983721
M47787	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1191291
M47787	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.0911485
M47787	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1088845
M47787	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0959092
M47787	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1376632
M47787	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08094484

M47791	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1853987
M47791	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2697525
M47791	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1874821
M47800	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.07894292
M47800	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08936643
M47800	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1543053
M47800	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.07727327
M47800	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.184234
M47800	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1382077
M47800	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.090607
M47800	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1405183
M47806	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08791244
M47806	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.07897001
M47806	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.07679932
M47806	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08408575
M47806	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.102093
M47809	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.139596
M47809	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0951954
M47836	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.2165992
M47898	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.19007951
M47898	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.18502513
M47898	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2569018
M47898	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.35085044
M47898	class	k__Bacteria.p__OD1.c__ZB2	0.18561904
M47905	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2139351
M47905	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.28102727
M47905	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.25119649
M47905	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.4406343
M47905	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2715238
M47905	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3341656
M47905	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4964287
M47905	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2886203
M47905	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2784855
M47954	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.1942384
M47954	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.20565678
M47954	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2046584
M47954	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.2353046
M47954	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.2039115
M47954	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2033946
M47954	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2046584
M47954	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2046584
M47954	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.199818
M47954	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2046584
M47954	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.1999371
M47954	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.20433095
M47954	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2046584
M47954	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2104626
M47954	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2046584
M47954	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2046584
M47954	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.24919836

M47954	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.19981738
M47954	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.26269191
M47954	class	k__Bacteria.p__GN02.c__BD1.5	0.21143194
M47954	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.2646274
M47954	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.3722873
M47954	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2224655
M47954	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2411307
M47954	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.2355188
M47954	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.199818
M47954	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.2955847
M47954	class	k__Bacteria.p__TM6.c__SJA.4	0.21110339
M47954	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2366503
M47954	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2388256
M47954	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.30189702
M47999	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2318125
M47999	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.186193
M48114	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0806231
M48114	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0807873
M48114	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1357662
M48114	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1050347
M48118	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2490873
M48118	class	k__Bacteria.p__TM6.c__SJA.4	0.20882818
M48118	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2337136
M48141	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0788745
M48149	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1003071
M48149	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.09440842
M48149	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.119026
M48152	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0794445
M48152	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1242828
M48152	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.0822181
M48152	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.0819107
M48152	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10389332
M48152	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1018621
M48152	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1375689
M48152	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1002323
M48152	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1604233
M48153	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0913897
M48153	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10670338
M48153	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.087593
M48153	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0823026
M48153	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1505026
M48153	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1422675
M48186	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0821691
M48187	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.21147767
M48187	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2696714
M48187	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.21850758
M48187	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2093535
M48187	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.18658799
M48187	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.26056223
M48187	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2117939

M48187	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1939278
M48187	class	k__Bacteria.p__TM7.c__TM7.3	0.2013103
M48187	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2335655
M48187	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.22895634
M48187	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2916829
M48189	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0855245
M48189	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1283304
M48189	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1047464
M48191	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2119949
M48191	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1953597
M48191	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2693265
M48191	class	k__Bacteria.p__Tenericutes.c__RF3	-0.4755876
M48191	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2269403
M48195	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.078422
M48195	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.08175464
M48195	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1140571
M48195	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1639323
M48195	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0950312
M48195	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1137464
M48252	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2622964
M48252	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2219756
M48252	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.25415003
M48252	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3636943
M48252	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2255171
M48252	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.23885575
M48255	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.0811247
M48255	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.08258647
M48255	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.0867316
M48255	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.081123
M48255	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08399919
M48255	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.0834042
M48255	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08028272
M48255	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.08524597
M48255	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.10885419
M48255	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0991592
M48258	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.317303
M48258	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.341833
M48258	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2659802
M48258	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.29265262
M48258	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.58351699
M48258	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.46042775
M48258	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.48282223
M48258	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.67855141
M48258	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.29929659
M48258	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.3518998
M48258	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2660272
M48258	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.59493712
M48258	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.51262142
M48258	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2494451
M48258	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.267122

M48258	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.34790778
M48258	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3794457
M48258	class	k__Bacteria.p__OD1.c__ZB2	0.45753644
M48258	class	k__Bacteria.p__Planctomycetes.c__OM190	0.44357832
M48258	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.29656575
M48258	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.51977299
M48258	class	k__Bacteria.p__TM6.c__SJA.4	-0.474815
M48258	class	k__Bacteria.p__TM7.c__TM7.3	-0.7586398
M48258	class	k__Bacteria.p__Thermi.c__Deinococci	-0.3483583
M48258	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.26537206
M48258	class	k__Bacteria.p__WS3.c__PRR.12	-0.8488989
M48340	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0886533
M48340	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1148632
M48340	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1330131
M48340	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1383654
M48428	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1021602
M48428	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0862019
M48428	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1503509
M48428	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1338726
M48428	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0854439
M48428	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1491111
M48433	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.10505
M48433	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11026087
M48434	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.11792667
M48434	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09362829
M48455	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.0957607
M48455	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.13294319
M48455	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.09300303
M48455	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.0998891
M48455	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.095718
M48455	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.09843782
M48455	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.0999456
M48455	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.13484061
M48455	class	k__Bacteria.p__OD1.c__ZB2	0.0987353
M48455	class	k__Bacteria.p__Planctomycetes.c__OM190	0.09490056
M48569	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2289677
M48660	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.2542811
M48660	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19759654
M48660	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2534107
M48660	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.22332672
M48660	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.21874373
M48660	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2291632
M48660	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.30137631
M48660	class	k__Bacteria.p__Thermi.c__Deinococci	0.20359747
M48660	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2259586
M48660	class	k__Bacteria.p__WS3.c__PRR.12	0.26708368
M48679	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3483813
M48679	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2003184
M48679	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.20119581
M48679	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.4136629

M48679	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2480709
M48679	class	k__Bacteria.p__TM6.c__SJA.4	0.19522113
M48679	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3754779
M48679	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5562165
M48679	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3284096
M48757	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.17637422
M48773	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1827113
M48773	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.18402053
M48773	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2148194
M48773	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2825151
M48773	class	k__Bacteria.p__Tenericutes.c__RF3	-0.208929
M48773	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.24990256
M48774	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.2310212
M48774	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.23396515
M48774	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.29728579
M48774	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3800227
M48774	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5217771
M48774	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5876969
M48774	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2305033
M48774	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3542917
M48853	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0838887
M48853	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1023848
M48853	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.09276754
M48857	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.14659729
M48857	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.08926665
M48857	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0945629
M48857	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.12713413
M48857	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.08830323
M48857	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.08926819
M48857	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.14087793
M48857	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.11902525
M48857	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08231635
M48857	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.08775168
M48857	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1053181
M48857	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.11053909
M48857	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.09314833
M48857	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1335256
M48885	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.0949106
M48889	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19025392
M48889	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.25773186
M48889	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.28529019
M48889	class	k__Bacteria.p__TM7.c__TM7.3	0.23681855
M48889	class	k__Bacteria.p__WS3.c__PRR.12	0.26486966
M48973	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.1958039
M48973	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.19758679
M48990	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2512797
M48990	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1895933
M48990	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2740987
M48994	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.18018703
M48994	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2469603

M48994	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2564011
M49008	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1261731
M49008	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0983284
M49228	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	-0.0980015
M49228	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0790442
M49228	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0903353
M49228	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.0836371
M49298	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09967549
M49298	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.08397113
M49298	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0993694
M49298	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0827661
M49298	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0874105
M49298	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.08618007
M49311	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.2781226
M49311	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2423128
M49311	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.21349311
M49316	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19893413
M49329	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08953904
M49329	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0907005
M49329	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.20696636
M49330	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.1889501
M49330	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.20115091
M49330	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.19902606
M49330	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.24684826
M49330	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2260873
M49330	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.33649073
M49330	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.18364912
M49330	class	k__Bacteria.p__TM7.c__TM7.3	-0.2131317
M49330	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2004778
M49330	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2622637
M49330	class	k__Bacteria.p__WS3.c__PRR.12	-0.3062766
M49335	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.23757571
M49335	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.28703953
M49335	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.28339091
M49335	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2288872
M49335	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2173554
M49335	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.201867
M49335	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.2090547
M49335	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1992849
M49335	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.25601027
M49335	class	k__Bacteria.p__TM6.c__SJA.4	0.2664667
M49335	class	k__Bacteria.p__TM7.c__TM7.3	0.25719539
M49335	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.2390734
M49335	class	k__Bacteria.p__WS3.c__PRR.12	0.29806089
M49342	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.08565571
M49342	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.09466085
M49342	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0950146
M49342	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.13518324
M49383	class	k__Archaea.p__Crenarchaeota.c__MCG	0.07768888
M49383	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1241356

M49383	class	k__Bacteria.p__TM7.c__TM7.3	0.09487887
M49457	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.10590522
M49457	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0925371
M49459	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0858854
M49459	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1437908
M49459	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08194332
M49459	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.080049
M49459	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0903428
M49459	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.09290472
M49459	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.131622
M49459	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0990388
M49459	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0896584
M49460	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.1931888
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M49460	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.19367756
M49460	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.25342513
M49460	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2363846
M49460	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2326758
M49461	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1152938
M49461	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1121836
M49461	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1366697
M49461	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1219889
M49463	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1512686
M49463	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0823744
M49463	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11005941
M49463	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0887246
M49463	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1925113
M49463	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0915308
M49463	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1395309
M49476	class	k__Archaea.p__Crenarchaeota.c__MCG	0.10412925
M49476	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.12005883
M49476	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.08072393
M49476	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.09672307
M49476	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.0986812
M49476	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.08075719
M49476	class	k__Bacteria.p__Acidobacteria.c__RB25	0.08072393
M49476	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.0939684
M49476	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.08072393
M49476	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.09066098
M49476	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.0776889
M49476	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.08072393
M49476	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.0834403
M49476	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.08072393
M49476	class	k__Bacteria.p__Caldithrix.c__KSB1	0.10267796
M49476	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.08296769
M49476	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.09073366
M49476	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.0871063
M49476	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.09512685
M49476	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.08072393
M49476	class	k__Bacteria.p__Chloroflexi.c__TK17	0.08072393

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M49476	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.0776889
M49476	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.09491893
M49476	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09354599
M49476	class	k__Bacteria.p__GN02.c__BD1.5	-0.0783391
M49476	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.08257494
M49476	class	k__Bacteria.p__OD1.c__ZB2	0.10396615
M49476	class	k__Bacteria.p__Planctomycetes.c__OM190	0.08359185
M49476	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.0776889
M49476	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08926524
M49476	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.10500833
M49476	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.08096961
M49476	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.09241826
M49476	class	k__Bacteria.p__WS3.c__PRR.12	0.09588548
M49513	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.128134
M49515	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09388883
M49515	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1047614
M49515	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1003816
M49529	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09072072
M49529	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.12245417
M49529	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0980207
M49529	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.07969696
M49529	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1116503
M49529	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1262619
M49529	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0911253
M49529	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1251664
M49532	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1314458
M49534	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1250366
M49534	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.09097248
M49534	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1093672
M49534	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1007313
M49539	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0748676
M49539	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0830998
M49539	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.09255531
M49539	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09090702
M49539	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.07821562
M49539	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1795293
M49539	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1048899
M49539	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.140875
M49539	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1881624
M49539	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.125788
M49539	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1195204
M49542	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1589175
M49542	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10030385
M49542	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1473071
M49542	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0920739
M49542	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1194934
M49542	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1429214
M49542	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.109508
M49588	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1896428

M49588	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.16880202
M49588	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1766341
M49588	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1890004
M49588	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2458449
M49626	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.23088781
M49626	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.20608454
M49626	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.2450964
M49626	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.20333137
M49626	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.28867349
M49626	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2774914
M49626	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2403878
M49626	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3035598
M49627	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.149493
M49627	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1186244
M49627	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.08444853
M49627	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09706627
M49627	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1426747
M49627	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.185918
M49627	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0880807
M49627	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1368037
M49627	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1126505
M49630	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1861819
M49630	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2300979
M49630	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.20129603
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M49630	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.3335326
M49630	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2647681
M49630	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2558786
M49631	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.19748043
M49631	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2140049
M49631	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.1778073
M49631	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1810952
M49631	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.2100011
M49632	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.4091346
M49632	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2186422
M49632	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2228421
M49632	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2189781
M49632	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.3851432
M49632	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2845091
M49634	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0738627
M49634	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.09204014
M49634	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09273091
M49634	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10245815
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M49634	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0815912
M49634	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1755302
M49634	class	k__Bacteria.p__Tenericutes.c__RF3	-0.21578
M49634	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0861114
M49635	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.1095155
M49635	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.08799255

M49635	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0967
M49636	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09212613
M49636	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.11481917
M49636	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.07846968
M49636	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.17535331
M49636	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1324369
M49636	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0947659
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M49636	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.07896014
M49636	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1033481
M49636	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1274331
M49636	class	k__Bacteria.p__Tenericutes.c__RF3	-0.160865
M49636	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0986505
M49645	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.0772578
M49645	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1197722
M49645	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.1196767
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M49645	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1033155
M49645	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1241572
M49645	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0919461
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M49646	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.09918681
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M49646	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.08843894
M49646	class	k__Bacteria.p__Tenericutes.c__RF3	0.1609577
M49646	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.14994537
M49647	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.10121194
M49647	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.08461498
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M49647	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.07822184
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M49650	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.24143246
M49650	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.281529
M49650	class	k__Bacteria.p__TM7.c__TM7.3	-0.2582271
M49651	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08150228
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M49651	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.0843171
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M49663	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.11288707
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M49665	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.2284713
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M49665	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.2342627
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M49665	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2167814
M49665	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.22123624
M49665	class	k__Bacteria.p__WS3.c__PRR.12	0.29622263
M49675	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1140116
M49675	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0880178
M49675	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1207929
M49675	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1529084
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M49679	class	k__Bacteria.p__Tenericutes.c__RF3	0.21647856
M49681	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08596147
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M49681	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.10054913
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M49834	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.09376595
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M49834	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.10948154
M49834	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1060261
M49834	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0851595
M49834	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0990333
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M49883	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.22733266
M49883	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2228532
M49883	class	k__Bacteria.p__TM7.c__TM7.3	0.25053792
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M52052	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.086341
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M52052	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1327305
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M52056	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.09507104
M52056	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1358228
M52056	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.07977177
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M52106	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0969883
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M52206	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.091883
M52206	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1885965
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M52206	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1504939
M52206	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1567963
M52206	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1824444
M52206	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1144408
M52206	class	k__Bacteria.p__WS3.c__PRR.12	-0.0876702
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M52233	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.12126255
M52234	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.25457735
M52234	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.28181467
M52234	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.18312552
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M52234	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.22555646
M52234	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.25708574
M52234	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.1846164
M52234	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.3090895
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M52234	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.35020557
M52234	class	k__Bacteria.p__OD1.c__ZB2	0.25855288
M52234	class	k__Bacteria.p__Planctomycetes.c__OM190	0.21197453
M52234	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.21419927
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M52234	class	k__Bacteria.p__TM7.c__TM7.3	-0.4214781
M52234	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2524669
M52234	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.22293414
M52234	class	k__Bacteria.p__WS3.c__PRR.12	-0.42047
M52238	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1209003
M52238	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11333679
M52238	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0962305
M52238	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1041821
M52238	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1461633
M52238	class	k__Bacteria.p__WS3.c__PRR.12	0.09109745
M52243	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1211809
M52243	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1406617
M52243	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.080096
M52243	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0844548
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M52245	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.22785832
M52245	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.1807283
M52245	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.199684
M52247	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.08444522
M52247	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.11859677
M52247	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.10177404
M52247	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.0951314
M52248	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1298272
M52248	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.09505615
M52248	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.09367501
M52248	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.09910669
M52248	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0939223
M52249	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1712276
M52249	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.1817425
M52249	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.37526315
M52249	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2785231
M52251	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.19139882
M52251	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.193971

M52251	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2759222
M52252	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.2462756
M52252	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.22947647
M52252	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.24304294
M52252	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.22875995
M52252	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2234108
M52257	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.0924583
M52257	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0876673
M52257	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.08464724
M52257	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1085068
M52257	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0827629
M52257	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.09290575
M52257	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1617166
M52257	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0946982
M52257	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1054264
M52257	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1568697
M52257	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1113929
M52257	class	k__Bacteria.p__Tenericutes.c__RF3	-0.095761
M52257	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1130812
M52257	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.093908
M52267	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.22006112
M52267	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.208217
M52267	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.18780564
M52267	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.1930747
M52267	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1944993
M52267	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.1927793
M52267	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.1930747
M52267	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.1930747
M52267	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.215422
M52267	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3752957
M52267	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.1908777
M52267	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.1930747
M52267	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.1930747
M52267	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.223169
M52267	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.20047296
M52267	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.18784887
M52267	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1993029
M52267	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.1930747
M52267	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.1930747
M52267	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.19087768
M52267	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.19865361
M52267	class	k__Bacteria.p__GN02.c__BD1.5	0.1881622
M52267	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.191553
M52267	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.1908777
M52267	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2112493
M52267	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.2174965
M52267	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2498241
M52267	class	k__Bacteria.p__TM6.c__SJA.4	0.21819501
M52267	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2733975
M52267	class	k__Bacteria.p__Tenericutes.c__RF3	-0.258499

M52267	class	k__Bacteria.p__Thermi.c__Deinococci	-0.1900974
M52267	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1932354
M52267	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2080817
M52267	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3525928
M52268	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08697023
M52268	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09931917
M52268	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11641338
M52268	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.09057279
M52268	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.104568
M52268	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.123715
M52271	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1947811
M52273	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.25081352
M52273	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.36109583
M52273	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.33963699
M52273	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.30385783
M52273	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.27139441
M52273	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.43230632
M52273	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.20372056
M52273	class	k__Bacteria.p__OD1.c__ZB2	0.29882263
M52273	class	k__Bacteria.p__Planctomycetes.c__OM190	0.30417391
M52273	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.40511843
M52273	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.30554659
M52273	class	k__Bacteria.p__TM6.c__SJA.4	-0.2430094
M52273	class	k__Bacteria.p__TM7.c__TM7.3	-0.266511
M52273	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.33905949
M52273	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.36956287
M52276	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.07753195
M52276	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.09805634
M52276	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.08301685
M52276	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08462604
M52276	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0834359
M52276	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.09965764
M52276	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.0853824
M52276	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.08993012
M52276	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.10676146
M52276	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.08438425
M52276	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.12187748
M52276	class	k__Bacteria.p__Tenericutes.c__Mollicutes	0.10727807
M52276	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.17158108
M52278	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.122389
M52278	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08958505
M52278	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.077742
M52278	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0811272
M52278	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.0775061
M52278	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1096939
M52278	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0969403
M52281	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1077024
M52281	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11652594
M52281	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1113495
M52281	class	k__Bacteria.p__Tenericutes.c__RF3	-0.095179

M52281	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1185503
M52282	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.07864582
M52282	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.13326194
M52282	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0805021
M52282	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.08942168
M52282	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08480977
M52282	class	k__Bacteria.p__OD1.c__ZB2	0.08680951
M52282	class	k__Bacteria.p__Planctomycetes.c__OM190	0.08849683
M52282	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.10975264
M52285	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1298796
M52285	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.0786551
M52285	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.10817756
M52285	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.0994684
M52285	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0847727
M52285	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0909818
M52285	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0873089
M52286	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.30929174
M52286	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3213558
M52286	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.27688326
M52286	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2319221
M52286	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.232038
M52286	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2319221
M52286	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2319221
M52286	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.22893866
M52286	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.2261864
M52286	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2319221
M52286	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.2142021
M52286	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2319221
M52286	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2124757
M52286	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.30913217
M52286	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.27692397
M52286	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1896486
M52286	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2319221
M52286	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2319221
M52286	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.22618692
M52286	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.28125256
M52286	class	k__Bacteria.p__GN02.c__BD1.5	0.23999838
M52286	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2826483
M52286	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2555185
M52286	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.1962871
M52286	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.2261864
M52286	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.3853657
M52286	class	k__Bacteria.p__TM6.c__SJA.4	0.35337261
M52286	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3335307
M52286	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.3479584
M52286	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.2069572
M52286	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2279581
M52289	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2477327
M52289	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3413767
M52289	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.3395286

M52289	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2656437
M52289	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.402695
M52294	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08382099
M52294	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1194849
M52294	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	-0.0899868
M52294	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0849289
M52294	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.0859505
M52294	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.0953292
M52294	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0825132
M52294	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.100636
M52294	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.1053533
M52294	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1195124
M52294	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0874738
M52294	class	k__Bacteria.p__TM6.c__SJA.4	0.10368126
M52307	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1013719
M52307	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.08568
M52307	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.081073
M52307	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1548984
M52315	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2771252
M52315	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.26854337
M52315	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.2817989
M52315	class	k__Bacteria.p__TM7.c__TM7.3	0.29281021
M52315	class	k__Bacteria.p__WS3.c__PRR.12	0.28431942
M52340	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0868254
M52340	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0887002
M52340	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0985363
M52340	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1200173
M52413	class	k__Archaea.p__Crenarchaeota.c__MCG	0.07657487
M52413	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.09432563
M52413	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.18111384
M52413	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.10797451
M52413	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.07386843
M52413	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	0.09252735
M52413	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.08572945
M52413	class	k__Bacteria.p__OD1.c__ZB2	0.09715519
M52413	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.0979936
M52413	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.07525646
M52413	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0785287
M52434	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.26731575
M52434	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2165111
M52434	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.24818731
M52434	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.2029532
M52434	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.23491769
M52434	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.19025916
M52434	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.37303488
M52434	class	k__Bacteria.p__OD1.c__ZB2	0.31277002
M52434	class	k__Bacteria.p__Planctomycetes.c__OM190	0.26932741
M52434	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.25029495
M52434	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.25835098
M52434	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2136848

M52434	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.22918718
M52450	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2102191
M52450	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2205607
M52450	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.21736381
M52450	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2788461
M52453	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1067299
M52453	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.1236745
M52453	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.0905436
M52461	class	k__Bacteria.p__Tenericutes.c__RF3	0.09908927
M52461	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.10369912
M52462	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.46313405
M52462	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.40496861
M52462	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.5001564
M52462	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.31649223
M52462	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.48655191
M52462	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.34784886
M52462	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.26405863
M52462	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.24805
M52462	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2365506
M52462	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.47297072
M52462	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.53941552
M52462	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.3524725
M52462	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.29578186
M52462	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.34069845
M52462	class	k__Bacteria.p__OD1.c__ZB2	0.47952451
M52462	class	k__Bacteria.p__Planctomycetes.c__OM190	0.43694777
M52462	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.26056989
M52462	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.38884002
M52462	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.2311159
M52462	class	k__Bacteria.p__TM6.c__SJA.4	-0.4460836
M52462	class	k__Bacteria.p__TM7.c__TM7.3	-0.6459438
M52462	class	k__Bacteria.p__Thermi.c__Deinococci	-0.3916845
M52462	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.28406916
M52462	class	k__Bacteria.p__WS3.c__PRR.12	-0.6397562
M52473	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.1074857
M52473	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.08589584
M52473	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.09114297
M52473	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.089381
M52473	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0878508
M52473	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0899687
M52473	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.089381
M52473	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.089381
M52473	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.09727777
M52473	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0923933
M52473	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.089381
M52473	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.089381
M52473	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.09170111
M52473	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.09117704
M52473	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0814494
M52473	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.089381

M52473	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.089381
M52473	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.09239326
M52473	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.09368889
M52473	class	k__Bacteria.p__GN02.c__BD1.5	0.09852612
M52473	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.0797665
M52473	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0923933
M52473	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.11418617
M52603	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.4858319
M52603	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.4300896
M52603	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.2739026
M52603	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.42252474
M52603	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.27584777
M52603	class	k__Bacteria.p__Acidobacteria.c__RB25	0.2739026
M52603	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.34975752
M52603	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.2739026
M52603	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.28743715
M52603	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.60580763
M52603	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.2739026
M52603	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.6225001
M52603	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.7998282
M52603	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.53699439
M52603	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.2739026
M52603	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.5095813
M52603	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.4300615
M52603	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.37106256
M52603	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.2739026
M52603	class	k__Bacteria.p__Chloroflexi.c__TK17	0.2739026
M52603	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.3439005
M52603	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.5173201
M52603	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.2874378
M52603	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.70930854
M52603	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.4139959
M52603	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.4305079
M52603	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.41908711
M52603	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.38115005
M52603	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.35025097
M52603	class	k__Bacteria.p__OD1.c__ZB2	0.73752796
M52603	class	k__Bacteria.p__Planctomycetes.c__OM190	0.68106656
M52603	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.28743715
M52603	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.47969364
M52603	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.40511445
M52603	class	k__Bacteria.p__TM6.c__SJA.4	-0.710614
M52603	class	k__Bacteria.p__TM7.c__TM7.3	-0.727665
M52603	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.50887546
M52603	class	k__Bacteria.p__WS3.c__PRR.12	-0.742161
M52604	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.07865142
M52604	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0772273
M52604	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.0794317
M52604	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.0776481
M52604	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0772273

M52604	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0772273
M52604	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.08551039
M52604	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0767242
M52604	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0772273
M52604	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0772273
M52604	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.0786658
M52604	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0784648
M52604	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0772273
M52604	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0772273
M52604	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.07672422
M52604	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	0.0819791
M52604	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.10879571
M52604	class	k__Bacteria.p__GN02.c__BD1.5	0.07913187
M52604	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0767242
M52604	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0982934
M52604	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0930734
M52604	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0970106
M52608	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.15095492
M52608	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0916451
M52608	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1792544
M52625	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.25096
M52625	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.2021714
M52625	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2242919
M52625	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	0.18839787
M52625	class	k__Bacteria.p__Tenericutes.c__RF3	0.19440878
M52633	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1916068
M52633	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.17699394
M52633	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.17890956
M52633	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.253759
M52634	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.10866415
M52634	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.09386509
M52634	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.0824072
M52637	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08199593
M52637	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.0928578
M52639	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.089105
M52639	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.0753857
M52639	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.0855822
M52639	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1114756
M52639	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.0854056
M52639	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.146043
M52639	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.173384
M52639	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2118726
M52639	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1438168
M52639	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1275855
M52641	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	-0.1887064
M52641	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.1980125
M52641	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.1769125
M52641	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.29303259
M52641	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.21723932
M52641	class	k__Bacteria.p__TM7.c__TM7.3	0.22980924

M52641	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.18596913
M52641	class	k__Bacteria.p__WS3.c__PRR.12	0.25897242
M52642	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.0917552
M52642	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.09945564
M52642	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.11089711
M52642	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.13376648
M52642	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.17679
M52655	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.09254268
M52655	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.09887242
M52661	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.20890543
M52661	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.22614454
M52766	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2926713
M52766	class	k__Bacteria.p__Tenericutes.c__RF3	0.21768159
M52772	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.11010773
M52772	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1271061
M52773	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.18767571
M52773	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.19266733
M52773	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3290775
M52773	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2014966
M52773	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2485812
M52773	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.233736
M52773	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2599018
M52782	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.1097024
M52782	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.08144106
M52782	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1467844
M52782	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.093494
M52782	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1219322
M52782	class	k__Bacteria.p__Tenericutes.c__RF3	-0.0975852
M52791	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	0.08019973
M52791	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.08204847
M52791	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.08145896
M52791	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.0978175
M52791	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.14593218
M52791	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	0.11386127
M52791	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.0856745
M52833	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.09719356
M52833	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0862753
M52833	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.09051605
M52833	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.0817903
M52850	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.0901839
M52850	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.1070121
M52850	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1186676
M52867	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.25291242
M52867	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.18642177
M52867	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3841177
M52867	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.21114416
M52867	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.6004754
M52867	class	k__Bacteria.p__Tenericutes.c__RF3	-0.6529909
M52867	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2517069
M52867	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.21091026

M52867	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3691616
M52871	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1804582
M52871	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.18989383
M52925	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1615947
M52925	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.21409206
M52938	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	-0.1115237
M52938	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.087671
M52938	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.0947136
M52938	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	0.10631519
M52938	class	k__Bacteria.p__Tenericutes.c__RF3	0.11643824
M52938	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.13077394
M52969	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.2581738
M52969	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.24002633
M52969	class	k__Bacteria.p__OD1.c__ZB2	0.23963628
M52969	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2090282
M52969	class	k__Bacteria.p__Tenericutes.c__RF3	-0.197219
M52970	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2171182
M52975	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.20656569
M52975	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.31063163
M52975	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.24213643
M52975	class	k__Bacteria.p__OD1.c__ZB2	0.22019805
M52975	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2352112
M52987	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.194826
M52987	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2363481
M52987	class	k__Bacteria.p__Cyanobacteria.c__4COd.2	0.26957756
M52987	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2397916
M52987	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2817614
M52987	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3468977
M52987	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.2812207
M52987	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3380335
M53010	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2792073
M53010	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2394234
M53010	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.36710028
M53010	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.26681146
M53010	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.41609663
M53010	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.29508988
M53010	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.46654381
M53010	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.42584249
M53010	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.31056361
M53010	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2910742
M53010	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2394293
M53010	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.33608029
M53010	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.44991297
M53010	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.2114943
M53010	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.2363316
M53010	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.30083598
M53010	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.22034373
M53010	class	k__Bacteria.p__OD1.c__ZB2	0.43896005
M53010	class	k__Bacteria.p__Planctomycetes.c__OM190	0.44724872
M53010	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.27137863

M53010	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.29077587
M53010	class	k__Bacteria.p__TM6.c__SJA.4	-0.4389371
M53010	class	k__Bacteria.p__TM7.c__TM7.3	-0.5243617
M53010	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2258488
M53010	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.27920582
M53010	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2713863
M53010	class	k__Bacteria.p__WS3.c__PRR.12	-0.5172331
M53013	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2258066
M53013	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.30984748
M53013	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.3077954
M53013	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.3386377
M53013	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.4044185
M53013	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.41703113
M53013	class	k__Bacteria.p__Bacteroidetes.c__Saprosirae	0.24519309
M53013	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2273015
M53013	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.33439373
M53013	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.39330606
M53013	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.24131283
M53013	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.25194013
M53013	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.36459956
M53013	class	k__Bacteria.p__OD1.c__ZB2	0.39271429
M53013	class	k__Bacteria.p__Planctomycetes.c__OM190	0.36897657
M53013	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.23263578
M53013	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.19259916
M53013	class	k__Bacteria.p__TM6.c__SJA.4	-0.3039868
M53013	class	k__Bacteria.p__TM7.c__TM7.3	-0.3901689
M53013	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2440253
M53013	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.22186331
M53013	class	k__Bacteria.p__WS3.c__PRR.12	-0.4471091
M53023	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.09351933
M53086	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2438849
M53086	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.24488278
M53086	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.30643792
M53086	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3136038
M53086	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.23690187
M53086	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.5363234
M53086	class	k__Bacteria.p__Tenericutes.c__RF3	-0.5146005
M53086	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	0.30600405
M53086	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.5100045
M53106	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1420082
M53106	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.10903879
M53106	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.08173294
M53106	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1043339
M53106	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.122001
M53106	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1646275
M53106	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1009352
M53106	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1898262
M53111	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1199397
M53111	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1260659
M53111	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1462214

M53111	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.164597
M53114	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1038172
M53114	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0770294
M53114	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1323182
M53114	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.08048372
M53114	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11548519
M53114	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1052794
M53114	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0898055
M53114	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1116185
M53114	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1810174
M53114	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1077091
M53114	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2056118
M53121	class	k__Bacteria.p__TM6.c__SJA.4	0.2203123
M53125	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.0995528
M53125	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.07905498
M53125	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.1257869
M53125	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.1415052
M53125	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.0988693
M53125	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.1076437
M53125	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1158192
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M53125	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.0988693
M53125	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.0988693
M53125	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.10142016
M53125	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1240266
M53125	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.0953506
M53125	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.0838167
M53125	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.0988693
M53125	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	0.11874354
M53125	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.0988693
M53125	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.1041711
M53125	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.0975031
M53125	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1211385
M53125	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.0988693
M53125	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.0988693
M53125	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.09535064
M53125	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1427042
M53125	class	k__Bacteria.p__GN02.c__BD1.5	0.09339081
M53125	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	-0.0993705
M53125	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.1151256
M53125	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1607592
M53125	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.1056265
M53125	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.0953506
M53125	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	-0.0926174
M53125	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.08838
M53125	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0920478
M53125	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.0963126
M53125	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1371575
M53125	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1186282
M53125	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1543953

M53125	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	-0.1139693
M53125	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1278866
M53127	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	-0.0925025
M53127	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.15170314
M53156	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.1773114
M53156	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.1955036
M53158	class	k__Archaea.p__Crenarchaeota.c__MCG	0.08448304
M53158	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.10168226
M53158	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.0971438
M53158	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.13207071
M53158	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.08962377
M53158	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.09019615
M53158	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.0977245
M53158	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.09162889
M53158	class	k__Bacteria.p__TM7.c__TM7.3	0.09886037
M53158	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1009359
M53158	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.0999627
M53158	class	k__Bacteria.p__WS3.c__PRR.12	0.09625917
M53165	class	k__Archaea.p__Crenarchaeota.c__MCG	-0.1657781
M53165	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2013159
M53165	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.1797731
M53165	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2204721
M53165	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1921025
M53165	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.1799697
M53165	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.1797731
M53165	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.1797731
M53165	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.19574502
M53165	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2679553
M53165	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2735287
M53165	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.1751949
M53165	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.1797731
M53165	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.1797731
M53165	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.2236974
M53165	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.1852665
M53165	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.1933862
M53165	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.1797731
M53165	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.1797731
M53165	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.17519437
M53165	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.2505707
M53165	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2199036
M53165	class	k__Bacteria.p__GN02.c__BD1.5	0.18411048
M53165	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.1743516
M53165	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.1751949
M53165	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2529146
M53165	class	k__Bacteria.p__WS3.c__PRR.12	-0.1969587
M53172	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.19856062
M53172	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2493112
M53172	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.262552
M53172	class	k__Bacteria.p__Acidobacteria.c__AT.s54	0.18044706
M53172	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	-0.2079457

M53172	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	-0.2256545
M53172	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	-0.1788432
M53172	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	-0.2075745
M53172	class	k__Bacteria.p__Acidobacteria.c__RB25	-0.2079457
M53172	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.18068194
M53172	class	k__Bacteria.p__Acidobacteria.c__Sva0725	-0.2079457
M53172	class	k__Bacteria.p__Acidobacteria.c__iii1.8	0.24258474
M53172	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	-0.2077208
M53172	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	-0.2079457
M53172	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	-0.2079457
M53172	class	k__Bacteria.p__Caldithrix.c__KSB1	-0.1679836
M53172	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	-0.2347326
M53172	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	0.17989496
M53172	class	k__Bacteria.p__Chlorobi.c__SJA.28	0.18048666
M53172	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.19581205
M53172	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	-0.2036277
M53172	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	-0.2079457
M53172	class	k__Bacteria.p__Chloroflexi.c__TK17	-0.2079457
M53172	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.2575438
M53172	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	0.20772111
M53172	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.1728545
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M53172	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.2059628
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M53172	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	-0.2047578
M53172	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	-0.2077208
M53172	class	k__Bacteria.p__Proteobacteria.c__Betaproteobacteria	-0.1732572
M53172	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.247233
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M53172	class	k__Bacteria.p__TM6.c__SJA.4	0.2161681
M53172	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2465014
M53172	class	k__Bacteria.p__Thermi.c__Deinococci	-0.190542
M53172	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.346926
M53176	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.26523861
M53176	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.22820848
M53176	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.30051679
M53176	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.34777139
M53176	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.21549549
M53176	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.22417952
M53176	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.1887786
M53176	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.22626258
M53176	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.24085966
M53176	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.22396085
M53176	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.33571621
M53176	class	k__Bacteria.p__OD1.c__ZB2	0.20242369
M53176	class	k__Bacteria.p__Planctomycetes.c__OM190	0.21936649
M53176	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.3303805
M53176	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.32788346
M53176	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.30208961

M53176	class	k__Bacteria.p__TM6.c__SJA.4	-0.2254927
M53176	class	k__Bacteria.p__TM7.c__TM7.3	-0.2422411
M53176	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2049818
M53176	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.18243587
M53176	class	k__Bacteria.p__WS3.c__PRR.12	-0.2718747
M53214	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	0.17572024
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M53214	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.3170043
M53214	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	-0.2426399
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M53214	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1924033
M53214	class	k__Bacteria.p__TM6.c__SJA.4	0.17468435
M53214	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1688007
M53214	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1973033
M53215	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	-0.106797
M53215	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11572404
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M53215	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1335013
M53215	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.0809313
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M53229	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.17240603
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M53229	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2000443
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M53231	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1054594
M53231	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.0883273
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M53231	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1301981
M53231	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1200193
M53231	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1146449
M53231	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.0990664
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M53232	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.242992
M53232	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	-0.3442256
M53232	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	-0.3933716
M53232	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.3576486

M53232	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.4058249
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M53232	class	k__Bacteria.p__OD1.c__ZB2	-0.4865733
M53232	class	k__Bacteria.p__Planctomycetes.c__OM190	-0.4316832
M53232	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.458478
M53232	class	k__Bacteria.p__TM7.c__TM7.3	0.27509966
M53232	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	-0.3838371
M53232	class	k__Bacteria.p__Verrucomicrobia.c__Verruco.5	-0.2736574
M53234	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.18309876
M53237	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1240961
M53237	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.11551031
M53237	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.0835544
M53237	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1105736
M53237	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.1176981
M53237	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1039356
M53237	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1342511
M53237	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1140183
M54676	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.09007192
M54676	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.117844
M54676	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	0.10488028
M54676	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0801023
M54676	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1105849
M54676	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.14829104
M54687	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.12264199
M54687	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.08571273
M54687	class	k__Bacteria.p__Firmicutes.c__Clostridia	0.1309307
M54687	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.11520322
M54687	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1420989
M54687	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1913213
M54704	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1227955
M54704	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0923791
M54704	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.1637572
M54704	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1958792
M54704	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	-0.1516886
M54704	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1214525
M54705	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.2123043
M54705	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1719978
M54723	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.10101011
M54723	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.14739368
M54723	class	k__Bacteria.p__Synergistetes.c__Synergistia	0.08061106
M54723	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.09661696
M54831	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12376735
M54831	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.16235458
M54831	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	0.09220756
M54832	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.1000168
M54832	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1011902
M54834	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.0862246
M54834	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	0.12290171
M54834	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.15887444
M54837	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1999972

M54837	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2037048
M54838	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.3200961
M54838	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.18803
M54838	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2262905
M54838	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2828898
M54838	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.3272613
M54838	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	-0.2003685
M54838	class	k__Bacteria.p__Spirochaetes.c__Spirochaetes	-0.1955264
M54839	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	-0.1116264
M54839	class	k__Bacteria.p__Firmicutes.c__Bacilli	-0.1249296
M54839	class	k__Bacteria.p__Firmicutes.c__Clostridia	-0.0927357
M54839	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	-0.1413042
M54839	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	-0.0966312
M54839	class	k__Bacteria.p__Proteobacteria.c__Gammaproteobacteria	-0.1195473
M54841	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	0.0908906
M54841	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.0862571
M54841	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	0.08454505
M54841	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.08031242
M54857	class	k__Archaea.p__Crenarchaeota.c__MCG	0.09165954
M54857	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.0810262
M54857	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.13824496
M54857	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.5	0.08955342
M54857	class	k__Bacteria.p__Acidobacteria.c__Acidobacteriia	0.08248631
M54857	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.12984044
M54857	class	k__Bacteria.p__Acidobacteria.c__PAUC37f	0.08890163
M54857	class	k__Bacteria.p__Acidobacteria.c__RB25	0.08955342
M54857	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.08955342
M54857	class	k__Bacteria.p__Acidobacteria.c__iii1.8	-0.0918045
M54857	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	0.07997013
M54857	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.08554403
M54857	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.08408709
M54857	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.08955342
M54857	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.08831432
M54857	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.0836558
M54857	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.08955342
M54857	class	k__Bacteria.p__Caldithrix.c__KSB1	0.11161871
M54857	class	k__Bacteria.p__Chlamydiae.c__Chlamydiia	0.09671058
M54857	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.11962824
M54857	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.08955342
M54857	class	k__Bacteria.p__Chloroflexi.c__TK17	0.08955342
M54857	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.085544
M54857	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.14312445
M54857	class	k__Bacteria.p__GN02.c__BD1.5	-0.0822301
M54857	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.11636065
M54857	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.09661912
M54857	class	k__Bacteria.p__OD1.c__ZB2	0.11190924
M54857	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.08554403
M54857	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.08593327
M54857	class	k__Bacteria.p__Proteobacteria.c__Deltaproteobacteria	0.08450735
M54857	class	k__Bacteria.p__TM7.c__TM7.3	0.10125683

M54857	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.07918066
M54857	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.09009095
M54857	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.12869186
M54857	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.12431133
M54857	class	k__Bacteria.p__WS3.c__PRR.12	0.1074082
M54859	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.110261
M54859	class	k__Bacteria.p__Chloroflexi.c__Anaerolineae	-0.0814309
M54859	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0860199
M54859	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0897423
M54859	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1366663
M54859	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1009277
M54860	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.0991041
M54860	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.1083617
M54860	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	-0.1085976
M54860	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.0901131
M54860	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.0926453
M54860	class	k__Bacteria.p__Tenericutes.c__RF3	-0.1635895
M54860	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.1379664
M54881	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.2391338
M54881	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.1771754
M54881	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2725942
M54881	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2690967
M54881	class	k__Bacteria.p__Tenericutes.c__RF3	-0.3655015
M54882	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.25523124
M54882	class	k__Bacteria.p__Lentisphaerae.c__Lentisphaeria	-0.3091617
M54882	class	k__Bacteria.p__Synergistetes.c__Synergistia	-0.2026699
M54882	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2960522
M54882	class	k__Bacteria.p__Tenericutes.c__RF3	-0.2272207
M54882	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2365282
M54883	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	0.1072392
M54883	class	k__Bacteria.p__Acidobacteria.c__Chloracidobacteria	0.10875562
M54883	class	k__Bacteria.p__Bacteroidetes.c__Sphingobacteriia	-0.089738
M54883	class	k__Bacteria.p__Caldithrix.c__KSB1	0.08312687
M54883	class	k__Bacteria.p__Chloroflexi.c__Ellin6529	0.09640455
M54883	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	0.12153469
M54883	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.0970959
M54883	class	k__Bacteria.p__TM7.c__TM7.3	0.09227943
M54883	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.11087996
M54883	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	0.09545047
M54883	class	k__Bacteria.p__WS3.c__PRR.12	0.09243608
M54887	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.314609
M54887	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.293199
M54887	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2941238
M54887	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.3190788
M54887	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.50988954
M54887	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.60230829
M54887	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.68120346
M54887	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.72917945
M54887	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.70338967
M54887	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.46860919

M54887	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.4061893
M54887	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.3191403
M54887	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.63720943
M54887	class	k__Bacteria.p__Cyanobacteria.c__4C0d.2	-0.312869
M54887	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.55543081
M54887	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.318537
M54887	class	k__Bacteria.p__Firmicutes.c__Bacilli	0.43994949
M54887	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.30863961
M54887	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.56863343
M54887	class	k__Bacteria.p__OD1.c__ZB2	0.52987409
M54887	class	k__Bacteria.p__Planctomycetes.c__OM190	0.52589029
M54887	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.34274147
M54887	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.45070238
M54887	class	k__Bacteria.p__TM6.c__SJA.4	-0.6329542
M54887	class	k__Bacteria.p__TM7.c__TM7.3	-0.9099204
M54887	class	k__Bacteria.p__Thermi.c__Deinococci	-0.4348433
M54887	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.43900748
M54887	class	k__Bacteria.p__WS3.c__PRR.12	-0.9388195
M54891	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2104894
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M54891	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	-0.2044839
M54891	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.20975979
M54891	class	k__Bacteria.p__OD1.c__ZB2	-0.1769335
M54891	class	k__Bacteria.p__TM6.c__SJA.4	0.19146252
M54891	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2048486
M54891	class	k__Bacteria.p__Verrucomicrobia.c__Opitutae	0.22330235
M54892	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2198403
M54892	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2633656
M54892	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.22627563
M54892	class	k__Bacteria.p__Firmicutes.c__Erysipelotrichi	-0.1881058
M54892	class	k__Bacteria.p__Proteobacteria.c__Alphaproteobacteria	-0.2257557
M54892	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3128574
M54893	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.18865248
M54893	class	k__Bacteria.p__Actinobacteria.c__Actinobacteria	-0.2036659
M54893	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2239036
M54893	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.21773141
M54893	class	k__Bacteria.p__WS3.c__PRR.12	-0.2470128
M54896	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2594523
M54896	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2975899
M54896	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.21978953
M54896	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.29330423
M54896	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.18823237
M54896	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.32559455
M54896	class	k__Bacteria.p__Cyanobacteria.c__Chloroplast	0.20308223
M54896	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.25241112
M54896	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.22051109
M54896	class	k__Bacteria.p__TM7.c__TM7.3	-0.2605856
M54896	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2983815
M54896	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2236383
M54896	class	k__Bacteria.p__WS3.c__PRR.12	-0.3329425

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M54897	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.231931
M54897	class	k__Bacteria.p__Acidobacteria.c__AT.s54	-0.2472559
M54897	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.44887688
M54897	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.47572494
M54897	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.56350482
M54897	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.54647724
M54897	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.52827755
M54897	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.39790451
M54897	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.3236527
M54897	class	k__Bacteria.p__Chlorobi.c__SJA.28	-0.2472469
M54897	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.57899727
M54897	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.48563166
M54897	class	k__Bacteria.p__Elusimicrobia.c__Elusimicrobia	-0.3326395
M54897	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.2458289
M54897	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.28936299
M54897	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.41856835
M54897	class	k__Bacteria.p__OD1.c__ZB2	0.44225616
M54897	class	k__Bacteria.p__Planctomycetes.c__OM190	0.45555352
M54897	class	k__Bacteria.p__Planctomycetes.c__Planctomycetia	0.38589478
M54897	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.44488526
M54897	class	k__Bacteria.p__TM6.c__SJA.4	-0.5841971
M54897	class	k__Bacteria.p__Thermi.c__Deinococci	-0.3766139
M54897	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.32834185
M54897	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2363149
M54897	class	k__Bacteria.p__WS3.c__PRR.12	-0.8436594
M54898	class	k__Archaea.p__Euryarchaeota.c__Methanobacteria	-0.2615362
M54898	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.23824459
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M54898	class	k__Bacteria.p__Fusobacteria.c__Fusobacteriia	0.23486162
M54898	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.28497227
M54898	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.3671041
M54899	class	k__Archaea.p__Crenarchaeota.c__Thaumarchaeota	-0.2657528
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M54899	class	k__Bacteria.p__Acidobacteria.c__Sva0725	0.21178901
M54899	class	k__Bacteria.p__Actinobacteria.c__MB.A2.108	0.22009295
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M54899	class	k__Bacteria.p__Armatimonadetes.c__Fimbriimonadia	0.21178901
M54899	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.2341277
M54899	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.35695002
M54899	class	k__Bacteria.p__Bacteroidetes.c__Flavobacteriia	0.34567837
M54899	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.31088621
M54899	class	k__Bacteria.p__Bacteroidetes.c__VC2_1_Bac22	0.21178901
M54899	class	k__Bacteria.p__Chlorobi.c__Ignavibacteria	-0.2388243

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M54899	class	k__Bacteria.p__Chloroflexi.c__Gitt.GS.136	0.21178901
M54899	class	k__Bacteria.p__Chloroflexi.c__TK17	0.21178901
M54899	class	k__Bacteria.p__Cyanobacteria.c__Nostocophycideae	-0.2200927
M54899	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.19944211
M54899	class	k__Bacteria.p__Fibrobacteres.c__Fibrobacteria	-0.2153676
M54899	class	k__Bacteria.p__GN02.c__BD1.5	-0.2172408
M54899	class	k__Bacteria.p__Gemmatimonadetes.c__Gemm.1	0.32446412
M54899	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.31300827
M54899	class	k__Bacteria.p__Nitrospirae.c__Nitrospira	0.25900247
M54899	class	k__Bacteria.p__OD1.c__ZB2	0.25133166
M54899	class	k__Bacteria.p__Planctomycetes.c__OM190	0.28579359
M54899	class	k__Bacteria.p__Planctomycetes.c__Phycisphaerae	0.22009295
M54899	class	k__Bacteria.p__Proteobacteria.c__Epsilonproteobacteria	0.23299164
M54899	class	k__Bacteria.p__Spirochaetes.c__Brachyspirae	0.32750936
M54899	class	k__Bacteria.p__TM6.c__SJA.4	-0.3232692
M54899	class	k__Bacteria.p__TM7.c__TM7.3	-0.226164
M54899	class	k__Bacteria.p__Verrucomicrobia.c__Pedosphaerae	0.2478805
M54899	class	k__Bacteria.p__Verrucomicrobia.c__Spartobacteria	0.24055115
M54899	class	k__Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae	-0.2093298
M54899	class	k__Bacteria.p__WS3.c__PRR.12	-0.2263034
M54901	class	k__Archaea.p__Euryarchaeota.c__Thermoplasmata	-0.2112495
M54901	class	k__Bacteria.p__Acidobacteria.c__Acidobacteria.6	0.21211766
M54901	class	k__Bacteria.p__Acidobacteria.c__Solibacteres	0.27528037
M54901	class	k__Bacteria.p__Actinobacteria.c__Coriobacteriia	-0.2503375
M54901	class	k__Bacteria.p__Actinobacteria.c__Thermoleophilia	0.23817238
M54901	class	k__Bacteria.p__Bacteroidetes.c__Bacteroidia	0.18392618
M54901	class	k__Bacteria.p__Bacteroidetes.c__Cytophagia	0.30106543
M54901	class	k__Bacteria.p__Bacteroidetes.c__Saprospirae	0.17592898
M54901	class	k__Bacteria.p__Chloroflexi.c__Chloroflexi	0.31292905
M54901	class	k__Bacteria.p__Deferribacteres.c__Deferribacteres	0.22359786
M54901	class	k__Bacteria.p__Gemmatimonadetes.c__Gemmatimonadetes	0.29975328
M54901	class	k__Bacteria.p__Planctomycetes.c__OM190	0.19344986
M54901	class	k__Bacteria.p__TM7.c__TM7.3	-0.3010729
M54901	class	k__Bacteria.p__Tenericutes.c__Mollicutes	-0.2311732
M54901	class	k__Bacteria.p__Thermi.c__Deinococci	-0.2417184
M54901	class	k__Bacteria.p__WS3.c__PRR.12	-0.3597772
M00053	phylum	k__Bacteria.p__Firmicutes	0.08688235
M00053	phylum	k__Bacteria.p__Fusobacteria	0.08330217
M00053	phylum	k__Bacteria.p__Lentisphaerae	-0.135151
M00053	phylum	k__Bacteria.p__Spirochaetes	-0.1009697
M00053	phylum	k__Bacteria.p__Synergistetes	-0.1432361
M00053	phylum	k__Bacteria.p__Tenericutes	-0.118228
M00054	phylum	k__Archaea.p__Euryarchaeota	-0.0821991
M00054	phylum	k__Bacteria.p__Lentisphaerae	-0.2078684
M00054	phylum	k__Bacteria.p__Spirochaetes	-0.0820478
M00054	phylum	k__Bacteria.p__Synergistetes	-0.1058449
M00054	phylum	k__Bacteria.p__Tenericutes	-0.1437649
M00054	phylum	k__Bacteria.p__Verrucomicrobia	-0.1075383

M00055	phylum	k__Bacteria.p__Cyanobacteria	0.09934587
M00055	phylum	k__Bacteria.p__Firmicutes	0.09060786
M00055	phylum	k__Bacteria.p__Fusobacteria	0.0905747
M00055	phylum	k__Bacteria.p__Verrucomicrobia	-0.1125373
M00056	phylum	k__Bacteria.p__Verrucomicrobia	-0.1206765
M00057	phylum	k__Bacteria.p__Lentisphaerae	-0.1355645
M00057	phylum	k__Bacteria.p__Synergistetes	-0.102211
M00057	phylum	k__Bacteria.p__Tenericutes	-0.0953449
M00058	phylum	k__Bacteria.p__Lentisphaerae	-0.1271907
M00058	phylum	k__Bacteria.p__Synergistetes	-0.0869546
M00059	phylum	k__Archaea.p__Euryarchaeota	-0.0797937
M00059	phylum	k__Bacteria.p__Fusobacteria	0.08845599
M00059	phylum	k__Bacteria.p__Lentisphaerae	-0.1672629
M00059	phylum	k__Bacteria.p__Synergistetes	-0.1057102
M00059	phylum	k__Bacteria.p__Tenericutes	-0.1766982
M00059	phylum	k__Bacteria.p__Verrucomicrobia	-0.1168583
M00060	phylum	k__Bacteria.p__Lentisphaerae	-0.1371335
M00060	phylum	k__Bacteria.p__Synergistetes	-0.1152904
M00063	phylum	k__Bacteria.p__Fusobacteria	0.08089341
M00063	phylum	k__Bacteria.p__Tenericutes	-0.1095991
M00063	phylum	k__Bacteria.p__Verrucomicrobia	-0.0845316
M00063	phylum	k__Bacteria.p__WS3	-0.0788108
M00064	phylum	k__Bacteria.p__Lentisphaerae	-0.1476612
M00064	phylum	k__Bacteria.p__Synergistetes	-0.1103849
M00064	phylum	k__Bacteria.p__Tenericutes	-0.0949329
M00396	phylum	k__Archaea.p__Euryarchaeota	-0.2046163
M00396	phylum	k__Bacteria.p__Armatimonadetes	-0.0928659
M00396	phylum	k__Bacteria.p__Caldithrix	-0.0973856
M00396	phylum	k__Bacteria.p__Chlamydiae	-0.1008241
M00396	phylum	k__Bacteria.p__FBP	-0.0913548
M00396	phylum	k__Bacteria.p__Fibrobacteres	0.08280845
M00396	phylum	k__Bacteria.p__GN02	0.09564805
M00396	phylum	k__Bacteria.p__Lentisphaerae	-0.144208
M00396	phylum	k__Bacteria.p__Nitrospirae	-0.0869495
M00396	phylum	k__Bacteria.p__Synergistetes	-0.2175576
M00396	phylum	k__Bacteria.p__Tenericutes	-0.1546274
M00396	phylum	k__Bacteria.p__Thermi	-0.1039284
M00396	phylum	k__Bacteria.p__Verrucomicrobia	-0.1171922
M00396	phylum	k__Bacteria.p__WS3	-0.0820036
M00437	phylum	k__Bacteria.p__Chlorobi	0.26260084
M00437	phylum	k__Bacteria.p__Fusobacteria	0.19146891
M00437	phylum	k__Bacteria.p__Synergistetes	-0.2500924
M00437	phylum	k__Bacteria.p__Tenericutes	-0.2332506
M00437	phylum	k__Bacteria.p__Verrucomicrobia	-0.3072499
M00443	phylum	k__Bacteria.p__Lentisphaerae	-0.1016532
M00485	phylum	k__Bacteria.p__Actinobacteria	-0.1046426
M00485	phylum	k__Bacteria.p__Synergistetes	-0.088466
M00485	phylum	k__Bacteria.p__Tenericutes	-0.1099308
M00485	phylum	k__Bacteria.p__Verrucomicrobia	-0.1129371
M00512	phylum	k__Bacteria.p__Firmicutes	0.21248329

M00512	phylum	k__Bacteria.p__Lentisphaerae	-0.1170471
M00512	phylum	k__Bacteria.p__Proteobacteria	-0.1916378
M00512	phylum	k__Bacteria.p__Verrucomicrobia	-0.12147
M00513	phylum	k__Bacteria.p__Bacteroidetes	-0.1114108
M00513	phylum	k__Bacteria.p__Chloroflexi	-0.0954677
M00513	phylum	k__Bacteria.p__Fusobacteria	0.09779735
M00513	phylum	k__Bacteria.p__SR1	0.09781921
M00514	phylum	k__Archaea.p__Euryarchaeota	-0.128491
M00514	phylum	k__Bacteria.p__Actinobacteria	-0.1042511
M00514	phylum	k__Bacteria.p__Fusobacteria	0.094222
M00514	phylum	k__Bacteria.p__Verrucomicrobia	-0.1713245
M00527	phylum	k__Bacteria.p__Synergistetes	-0.100949
M00527	phylum	k__Bacteria.p__Tenericutes	-0.1134167
M00528	phylum	k__Bacteria.p__Bacteroidetes	0.09273682
M00531	phylum	k__Bacteria.p__Cyanobacteria	0.0845164
M00531	phylum	k__Bacteria.p__Fusobacteria	0.09043755
M00531	phylum	k__Bacteria.p__Lentisphaerae	-0.104236
M00531	phylum	k__Bacteria.p__Synergistetes	-0.0839259
M00531	phylum	k__Bacteria.p__Verrucomicrobia	-0.0991852
M00533	phylum	k__Bacteria.p__Actinobacteria	-0.2381079
M00533	phylum	k__Bacteria.p__Chlamydiae	-0.2037229
M00533	phylum	k__Bacteria.p__Elusimicrobia	-0.1730517
M00533	phylum	k__Bacteria.p__TM7	-0.2109366
M00533	phylum	k__Bacteria.p__Thermi	-0.2832601
M00533	phylum	k__Bacteria.p__Verrucomicrobia	-0.2046084
M00533	phylum	k__Bacteria.p__WPS.2	-0.2235037
M00533	phylum	k__Bacteria.p__WS3	-0.1784415
M00537	phylum	k__Bacteria.p__Fusobacteria	-0.085603
M00537	phylum	k__Bacteria.p__Lentisphaerae	-0.2156233
M00537	phylum	k__Bacteria.p__Synergistetes	-0.1003773
M00541	phylum	k__Bacteria.p__Chloroflexi	-0.0824335
M00541	phylum	k__Bacteria.p__SR1	0.12065627
M00541	phylum	k__Bacteria.p__Verrucomicrobia	-0.1396913
M00542	phylum	k__Bacteria.p__Chloroflexi	-0.159532
M00542	phylum	k__Bacteria.p__SR1	0.16367274
M00542	phylum	k__Bacteria.p__Spirochaetes	-0.1088548
M00554	phylum	k__Bacteria.p__Bacteroidetes	0.12039271
M00554	phylum	k__Bacteria.p__Lentisphaerae	0.15849717
M00554	phylum	k__Bacteria.p__Proteobacteria	0.08239241
M00555	phylum	k__Bacteria.p__Acidobacteria	0.09373597
M00555	phylum	k__Bacteria.p__Actinobacteria	-0.1009858
M00555	phylum	k__Bacteria.p__Elusimicrobia	-0.088992
M00555	phylum	k__Bacteria.p__Lentisphaerae	0.10402163
M00568	phylum	k__Bacteria.p__Firmicutes	-0.0961234
M00568	phylum	k__Bacteria.p__Synergistetes	0.09553759
M00568	phylum	k__Bacteria.p__Verrucomicrobia	0.211747
M00573	phylum	k__Archaea.p__Euryarchaeota	-0.1098659
M00573	phylum	k__Bacteria.p__Proteobacteria	-0.1153385
M00573	phylum	k__Bacteria.p__Synergistetes	-0.1682956
M00573	phylum	k__Bacteria.p__Tenericutes	-0.0950025

M00573	phylum	k__Bacteria.p__Verrucomicrobia	-0.1718378
M00575	phylum	k__Bacteria.p__Cyanobacteria	0.12421424
M00575	phylum	k__Bacteria.p__Fusobacteria	0.09073391
M00575	phylum	k__Bacteria.p__Verrucomicrobia	-0.1171947
M00587	phylum	k__Bacteria.p__Fusobacteria	0.12356837
M00587	phylum	k__Bacteria.p__Proteobacteria	0.16064802
M00594	phylum	k__Archaea.p__Euryarchaeota	-0.09888
M00594	phylum	k__Bacteria.p__Actinobacteria	-0.1279827
M00594	phylum	k__Bacteria.p__Chlorobi	0.08785204
M00594	phylum	k__Bacteria.p__Lentisphaerae	-0.1033737
M00594	phylum	k__Bacteria.p__Synergistetes	-0.1537105
M00594	phylum	k__Bacteria.p__TM6	0.08621524
M00594	phylum	k__Bacteria.p__Tenericutes	-0.1244477
M00598	phylum	k__Bacteria.p__Acidobacteria	-0.0933143
M00598	phylum	k__Bacteria.p__Bacteroidetes	-0.0807419
M00598	phylum	k__Bacteria.p__Gemmatimonadetes	-0.101025
M00598	phylum	k__Bacteria.p__OD1	-0.0884884
M00598	phylum	k__Bacteria.p__Tenericutes	-0.0978664
M00601	phylum	k__Bacteria.p__Lentisphaerae	-0.0907896
M00601	phylum	k__Bacteria.p__WPS.2	0.09240582
M00601	phylum	k__Bacteria.p__WS3	-0.0934313
M00604	phylum	k__Archaea.p__Euryarchaeota	-0.1108725
M00604	phylum	k__Bacteria.p__Lentisphaerae	-0.2580709
M00604	phylum	k__Bacteria.p__Planctomycetes	-0.0987904
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M00605	phylum	k__Archaea.p__Euryarchaeota	-0.1350537
M00605	phylum	k__Bacteria.p__Actinobacteria	-0.0901405
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M00605	phylum	k__Bacteria.p__Planctomycetes	-0.0972832
M00605	phylum	k__Bacteria.p__Proteobacteria	-0.0872126
M00605	phylum	k__Bacteria.p__Synergistetes	-0.1481969
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M00606	phylum	k__Archaea.p__Euryarchaeota	-0.131718
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M00607	phylum	k__Bacteria.p__Lentisphaerae	-0.1138671
M00607	phylum	k__Bacteria.p__Synergistetes	-0.0848832
M00607	phylum	k__Bacteria.p__Verrucomicrobia	-0.1200891
M00608	phylum	k__Archaea.p__Euryarchaeota	0.15271921
M00608	phylum	k__Bacteria.p__Lentisphaerae	0.10475415
M00608	phylum	k__Bacteria.p__Proteobacteria	0.2071119
M00608	phylum	k__Bacteria.p__Synergistetes	0.08923354
M00608	phylum	k__Bacteria.p__Tenericutes	0.14081739

M00608	phylum	k__Bacteria.p__Verrucomicrobia	0.08427637
M01105	phylum	k__Archaea.p__Crenarchaeota	-0.1072808
M01105	phylum	k__Archaea.p__Euryarchaeota	-0.1170937
M01105	phylum	k__Bacteria.p__Actinobacteria	-0.0883103
M01105	phylum	k__Bacteria.p__Armatimonadetes	-0.0765532
M01105	phylum	k__Bacteria.p__Bacteroidetes	-0.1447472
M01105	phylum	k__Bacteria.p__Caldithrix	-0.0964726
M01105	phylum	k__Bacteria.p__Deferribacteres	-0.1050712
M01105	phylum	k__Bacteria.p__Elusimicrobia	-0.0996256
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M01105	phylum	k__Bacteria.p__OD1	-0.101454
M01105	phylum	k__Bacteria.p__Planctomycetes	-0.1016006
M01105	phylum	k__Bacteria.p__Proteobacteria	-0.0856929
M01105	phylum	k__Bacteria.p__Synergistetes	-0.0811644
M01105	phylum	k__Bacteria.p__Verrucomicrobia	-0.1494842
M01107	phylum	k__Bacteria.p__Spirochaetes	0.22901236
M01110	phylum	k__Bacteria.p__Fusobacteria	0.10222244
M01110	phylum	k__Bacteria.p__Tenericutes	-0.2389341
M01110	phylum	k__Bacteria.p__Verrucomicrobia	-0.170314
M01114	phylum	k__Bacteria.p__Lentisphaerae	-0.1971278
M01114	phylum	k__Bacteria.p__Tenericutes	-0.1540843
M01118	phylum	k__Bacteria.p__Bacteroidetes	-0.0991405
M01118	phylum	k__Bacteria.p__Lentisphaerae	0.09000458
M01118	phylum	k__Bacteria.p__Synergistetes	0.09988369
M01121	phylum	k__Bacteria.p__Bacteroidetes	-0.1023111
M01121	phylum	k__Bacteria.p__Lentisphaerae	0.12538137
M01121	phylum	k__Bacteria.p__Synergistetes	0.08741894
M01123	phylum	k__Archaea.p__Euryarchaeota	-0.1090966
M01123	phylum	k__Bacteria.p__Actinobacteria	-0.1783717
M01123	phylum	k__Bacteria.p__Chlamydiae	-0.0915131
M01123	phylum	k__Bacteria.p__Verrucomicrobia	-0.1114422
M01124	phylum	k__Archaea.p__Crenarchaeota	-0.0984862
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M01124	phylum	k__Bacteria.p__Chloroflexi	-0.0926647
M01124	phylum	k__Bacteria.p__Nitrospirae	-0.0846622
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M01124	phylum	k__Bacteria.p__Verrucomicrobia	-0.0826926
M01125	phylum	k__Bacteria.p__Lentisphaerae	-0.1291227
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M01126	phylum	k__Bacteria.p__Lentisphaerae	-0.1232892
M01126	phylum	k__Bacteria.p__Synergistetes	-0.0959637
M01128	phylum	k__Archaea.p__Euryarchaeota	0.0875419
M01128	phylum	k__Bacteria.p__Firmicutes	0.10094601
M01284	phylum	k__Archaea.p__Euryarchaeota	-0.0939567
M01284	phylum	k__Bacteria.p__Lentisphaerae	-0.157336
M01284	phylum	k__Bacteria.p__Spirochaetes	-0.0967414
M01284	phylum	k__Bacteria.p__Synergistetes	-0.1016967
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M01299	phylum	k__Bacteria.p__Lentisphaerae	-0.1351523
M01299	phylum	k__Bacteria.p__Synergistetes	-0.0970031
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M01301	phylum	k__Archaea.p__Euryarchaeota	-0.0917477
M01301	phylum	k__Bacteria.p__Lentisphaerae	-0.1787476
M01301	phylum	k__Bacteria.p__Proteobacteria	-0.0863327
M01301	phylum	k__Bacteria.p__Synergistetes	-0.1552838
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M01302	phylum	k__Bacteria.p__Lentisphaerae	-0.1513538
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M01358	phylum	k__Bacteria.p__Bacteroidetes	-0.1286826
M01358	phylum	k__Bacteria.p__Lentisphaerae	0.10353811
M01358	phylum	k__Bacteria.p__Synergistetes	0.092644
M01358	phylum	k__Bacteria.p__Verrucomicrobia	0.08456936
M01361	phylum	k__Bacteria.p__Actinobacteria	-0.2330831
M01361	phylum	k__Bacteria.p__Chlorobi	0.38413916
M01361	phylum	k__Bacteria.p__TM6	0.39549002
M01361	phylum	k__Bacteria.p__TM7	0.26796188
M01361	phylum	k__Bacteria.p__WS3	0.47240777
M01365	phylum	k__Bacteria.p__Acidobacteria	-0.0891724
M01408	phylum	k__Bacteria.p__Actinobacteria	-0.3267186
M01408	phylum	k__Bacteria.p__Tenericutes	-0.3276972
M01408	phylum	k__Bacteria.p__Verrucomicrobia	-0.241771
M01411	phylum	k__Bacteria.p__Acidobacteria	0.10384687
M01411	phylum	k__Bacteria.p__Actinobacteria	-0.0833479
M01411	phylum	k__Bacteria.p__Thermi	-0.0996153
M01412	phylum	k__Archaea.p__Euryarchaeota	-0.0829036
M01412	phylum	k__Bacteria.p__Chlorobi	0.09237941
M01412	phylum	k__Bacteria.p__Synergistetes	-0.0943956
M01412	phylum	k__Bacteria.p__TM6	0.09197566
M01412	phylum	k__Bacteria.p__Verrucomicrobia	-0.0825952
M01413	phylum	k__Archaea.p__Euryarchaeota	-0.2234473
M01413	phylum	k__Bacteria.p__Actinobacteria	-0.2281915
M01413	phylum	k__Bacteria.p__Lentisphaerae	-0.2261158
M01413	phylum	k__Bacteria.p__Synergistetes	-0.3237703
M01413	phylum	k__Bacteria.p__Verrucomicrobia	-0.314317
M01416	phylum	k__Bacteria.p__Fusobacteria	0.12202952
M01416	phylum	k__Bacteria.p__Proteobacteria	0.10132573
M01416	phylum	k__Bacteria.p__SR1	-0.1129513
M01417	phylum	k__Archaea.p__Euryarchaeota	-0.0929819
M01417	phylum	k__Bacteria.p__Acidobacteria	0.08500114

M01417	phylum	k__Bacteria.p__Lentisphaerae	-0.1315884
M01417	phylum	k__Bacteria.p__Synergistetes	-0.1215645
M01417	phylum	k__Bacteria.p__Verrucomicrobia	-0.1079665
M01418	phylum	k__Bacteria.p__Verrucomicrobia	-0.3203156
M01437	phylum	k__Bacteria.p__Actinobacteria	-0.0917227
M01437	phylum	k__Bacteria.p__Synergistetes	-0.1005934
M01444	phylum	k__Archaea.p__Euryarchaeota	-0.100145
M01444	phylum	k__Bacteria.p__Deferribacteres	-0.0941051
M01444	phylum	k__Bacteria.p__Lentisphaerae	-0.2360951
M01444	phylum	k__Bacteria.p__OD1	-0.1094065
M01444	phylum	k__Bacteria.p__Proteobacteria	-0.1050675
M01444	phylum	k__Bacteria.p__Synergistetes	-0.1919406
M01444	phylum	k__Bacteria.p__Tenericutes	-0.1885464
M01471	phylum	k__Bacteria.p__Tenericutes	0.40396417
M01483	phylum	k__Bacteria.p__Lentisphaerae	-0.1365793
M01483	phylum	k__Bacteria.p__Tenericutes	-0.1007382
M01493	phylum	k__Archaea.p__Euryarchaeota	-0.1235798
M01493	phylum	k__Bacteria.p__Lentisphaerae	-0.2072817
M01493	phylum	k__Bacteria.p__Planctomycetes	-0.095
M01493	phylum	k__Bacteria.p__Synergistetes	-0.1381305
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M01493	phylum	k__Bacteria.p__Verrucomicrobia	-0.1784743
M01494	phylum	k__Bacteria.p__Proteobacteria	-0.1020976
M01495	phylum	k__Archaea.p__Euryarchaeota	0.08074089
M01495	phylum	k__Bacteria.p__Fusobacteria	-0.1075686
M01495	phylum	k__Bacteria.p__Lentisphaerae	0.12623957
M01495	phylum	k__Bacteria.p__Tenericutes	0.11761277
M01495	phylum	k__Bacteria.p__Verrucomicrobia	0.15448111
M01496	phylum	k__Bacteria.p__Acidobacteria	-0.4018615
M01496	phylum	k__Bacteria.p__Deferribacteres	-0.6412979
M01496	phylum	k__Bacteria.p__Firmicutes	-0.3037878
M01496	phylum	k__Bacteria.p__OD1	-0.4188936
M01496	phylum	k__Bacteria.p__Spirochaetes	-0.5524497
M01496	phylum	k__Bacteria.p__TM7	0.4999116
M01496	phylum	k__Bacteria.p__Thermi	0.38560623
M01496	phylum	k__Bacteria.p__WS3	0.34680845
M01498	phylum	k__Archaea.p__Euryarchaeota	-0.1082664
M01498	phylum	k__Bacteria.p__Fusobacteria	0.098539
M01498	phylum	k__Bacteria.p__Lentisphaerae	-0.1330646
M01498	phylum	k__Bacteria.p__Synergistetes	-0.1477904
M01498	phylum	k__Bacteria.p__Tenericutes	-0.205462
M01498	phylum	k__Bacteria.p__Verrucomicrobia	-0.1815503
M01500	phylum	k__Bacteria.p__Proteobacteria	-0.1922984
M01504	phylum	k__Bacteria.p__Actinobacteria	-0.1261628
M01504	phylum	k__Bacteria.p__Synergistetes	-0.1169366
M01504	phylum	k__Bacteria.p__Tenericutes	-0.1418559
M01504	phylum	k__Bacteria.p__Verrucomicrobia	-0.2034262
M01505	phylum	k__Bacteria.p__Chloroflexi	0.07815023
M01505	phylum	k__Bacteria.p__Lentisphaerae	-0.0858266
M01508	phylum	k__Archaea.p__Euryarchaeota	-0.102384

M01508	phylum	k__Bacteria.p__Actinobacteria	-0.1329053
M01508	phylum	k__Bacteria.p__Cyanobacteria	0.08006914
M01508	phylum	k__Bacteria.p__Lentisphaerae	-0.1068368
M01508	phylum	k__Bacteria.p__Synergistetes	-0.1541043
M01508	phylum	k__Bacteria.p__Tenericutes	-0.1270334
M01508	phylum	k__Bacteria.p__Verrucomicrobia	-0.2165188
M01510	phylum	k__Bacteria.p__Fusobacteria	0.14700912
M01510	phylum	k__Bacteria.p__Tenericutes	-0.1283121
M01510	phylum	k__Bacteria.p__Verrucomicrobia	-0.146418
M01512	phylum	k__Archaea.p__Euryarchaeota	-0.1771336
M01512	phylum	k__Bacteria.p__Lentisphaerae	-0.1319705
M01512	phylum	k__Bacteria.p__Synergistetes	-0.2263562
M01512	phylum	k__Bacteria.p__Thermi	-0.0996671
M01515	phylum	k__Bacteria.p__Deferribacteres	-0.3244621
M01515	phylum	k__Bacteria.p__OD1	-0.2408399
M01515	phylum	k__Bacteria.p__Tenericutes	0.33144696
M01527	phylum	k__Archaea.p__Euryarchaeota	-0.137288
M01527	phylum	k__Bacteria.p__Actinobacteria	-0.1019017
M01527	phylum	k__Bacteria.p__Lentisphaerae	-0.1127127
M01527	phylum	k__Bacteria.p__Synergistetes	-0.1774367
M01527	phylum	k__Bacteria.p__Verrucomicrobia	-0.1421039
M01552	phylum	k__Bacteria.p__Tenericutes	-0.1217951
M01553	phylum	k__Bacteria.p__Acidobacteria	0.14337553
M01553	phylum	k__Bacteria.p__Actinobacteria	-0.1063262
M01553	phylum	k__Bacteria.p__Chlorobi	0.10001511
M01553	phylum	k__Bacteria.p__Lentisphaerae	0.19833945
M01553	phylum	k__Bacteria.p__Planctomycetes	0.10976109
M01553	phylum	k__Bacteria.p__Thermi	-0.08936
M01556	phylum	k__Bacteria.p__Acidobacteria	-0.2328311
M01556	phylum	k__Bacteria.p__Synergistetes	-0.2111535
M01556	phylum	k__Bacteria.p__WS3	-0.2524843
M01558	phylum	k__Archaea.p__Euryarchaeota	-0.0872895
M01558	phylum	k__Bacteria.p__Actinobacteria	-0.0768433
M01558	phylum	k__Bacteria.p__Armatimonadetes	-0.0736007
M01558	phylum	k__Bacteria.p__Caldithrix	-0.0950868
M01558	phylum	k__Bacteria.p__FBP	-0.0763871
M01558	phylum	k__Bacteria.p__Fibrobacteres	0.08724802
M01558	phylum	k__Bacteria.p__GN02	0.07550302
M01558	phylum	k__Bacteria.p__Lentisphaerae	-0.11989
M01558	phylum	k__Bacteria.p__Synergistetes	-0.0959662
M01558	phylum	k__Bacteria.p__Tenericutes	-0.1713535
M01558	phylum	k__Bacteria.p__Verrucomicrobia	-0.2277331
M01561	phylum	k__Bacteria.p__Verrucomicrobia	0.08420825
M01563	phylum	k__Bacteria.p__Actinobacteria	-0.2218201
M01563	phylum	k__Bacteria.p__Chlorobi	0.25605088
M01563	phylum	k__Bacteria.p__Chloroflexi	-0.2837554
M01563	phylum	k__Bacteria.p__SR1	0.2691191
M01563	phylum	k__Bacteria.p__Thermi	-0.247007
M01564	phylum	k__Bacteria.p__TM6	0.08801522
M01564	phylum	k__Bacteria.p__TM7	0.10480207

M01564	phylum	k__Bacteria.p__WS3	0.11262693
M01566	phylum	k__Bacteria.p__Chloroflexi	-0.2544916
M01566	phylum	k__Bacteria.p__Firmicutes	0.19275633
M01566	phylum	k__Bacteria.p__SR1	0.21331595
M01566	phylum	k__Bacteria.p__Spirochaetes	-0.1947817
M01566	phylum	k__Bacteria.p__Verrucomicrobia	-0.1732912
M01572	phylum	k__Bacteria.p__Actinobacteria	-0.123164
M01572	phylum	k__Bacteria.p__Synergistetes	-0.1220222
M01572	phylum	k__Bacteria.p__Verrucomicrobia	-0.1307781
M01573	phylum	k__Bacteria.p__Actinobacteria	-0.1953904
M01573	phylum	k__Bacteria.p__TM6	0.08249514
M01573	phylum	k__Bacteria.p__Verrucomicrobia	-0.1274035
M01574	phylum	k__Archaea.p__Euryarchaeota	-0.268253
M01574	phylum	k__Bacteria.p__Lentisphaerae	-0.2022452
M01574	phylum	k__Bacteria.p__Synergistetes	-0.2296952
M01574	phylum	k__Bacteria.p__Tenericutes	-0.3198456
M01574	phylum	k__Bacteria.p__Verrucomicrobia	-0.1958266
M01576	phylum	k__Archaea.p__Euryarchaeota	-0.2297109
M01576	phylum	k__Bacteria.p__Fusobacteria	0.18224873
M01576	phylum	k__Bacteria.p__Synergistetes	-0.1785744
M01584	phylum	k__Archaea.p__Euryarchaeota	0.17800595
M01584	phylum	k__Bacteria.p__TM7	0.2223572
M01584	phylum	k__Bacteria.p__Thermi	0.2539168
M01584	phylum	k__Bacteria.p__WPS.2	0.2803728
M01584	phylum	k__Bacteria.p__WS3	0.30348576
M01585	phylum	k__Bacteria.p__Lentisphaerae	-0.1332163
M01585	phylum	k__Bacteria.p__Synergistetes	-0.1381844
M01585	phylum	k__Bacteria.p__Tenericutes	-0.1068518
M01585	phylum	k__Bacteria.p__Verrucomicrobia	-0.0833918
M01587	phylum	k__Bacteria.p__Actinobacteria	-0.0873863
M01587	phylum	k__Bacteria.p__Lentisphaerae	-0.1113754
M01587	phylum	k__Bacteria.p__Synergistetes	-0.0861697
M01589	phylum	k__Bacteria.p__Lentisphaerae	-0.1402311
M01589	phylum	k__Bacteria.p__Synergistetes	-0.129056
M01589	phylum	k__Bacteria.p__Verrucomicrobia	-0.0970049
M01591	phylum	k__Bacteria.p__Lentisphaerae	-0.1100197
M01594	phylum	k__Bacteria.p__Acidobacteria	-0.1343695
M01594	phylum	k__Bacteria.p__Planctomycetes	-0.1026305
M01594	phylum	k__Bacteria.p__WPS.2	0.09318054
M01603	phylum	k__Bacteria.p__Lentisphaerae	-0.1132156
M01603	phylum	k__Bacteria.p__Synergistetes	-0.0966997
M01604	phylum	k__Bacteria.p__Bacteroidetes	0.09867313
M01605	phylum	k__Archaea.p__Euryarchaeota	-0.2316237
M01605	phylum	k__Bacteria.p__Synergistetes	-0.2738773
M01638	phylum	k__Bacteria.p__Actinobacteria	-0.1186314
M01638	phylum	k__Bacteria.p__Firmicutes	0.09916687
M01638	phylum	k__Bacteria.p__Verrucomicrobia	-0.143644
M01642	phylum	k__Bacteria.p__Cyanobacteria	0.09727
M01643	phylum	k__Bacteria.p__Bacteroidetes	0.11003879
M01643	phylum	k__Bacteria.p__Proteobacteria	0.07788791

M01643	phylum	k__Bacteria.p__Synergistetes	-0.0882069
M01644	phylum	k__Bacteria.p__Actinobacteria	-0.0875014
M01644	phylum	k__Bacteria.p__Tenericutes	0.12564783
M01648	phylum	k__Archaea.p__Euryarchaeota	-0.0840128
M01648	phylum	k__Bacteria.p__Fusobacteria	0.07568846
M01648	phylum	k__Bacteria.p__Lentisphaerae	-0.1325609
M01648	phylum	k__Bacteria.p__Spirochaetes	-0.1016255
M01648	phylum	k__Bacteria.p__Synergistetes	-0.1122969
M01648	phylum	k__Bacteria.p__Tenericutes	-0.1084844
M01648	phylum	k__Bacteria.p__Verrucomicrobia	-0.100074
M01649	phylum	k__Bacteria.p__Lentisphaerae	-0.1214478
M01649	phylum	k__Bacteria.p__Synergistetes	-0.1131245
M01651	phylum	k__Bacteria.p__Firmicutes	-0.1294218
M01651	phylum	k__Bacteria.p__Verrucomicrobia	0.09956109
M01669	phylum	k__Bacteria.p__Acidobacteria	-0.0868698
M01768	phylum	k__Bacteria.p__Tenericutes	-0.2632098
M01827	phylum	k__Bacteria.p__Actinobacteria	-0.0935077
M01827	phylum	k__Bacteria.p__Bacteroidetes	0.09724605
M01827	phylum	k__Bacteria.p__Lentisphaerae	-0.1372238
M01827	phylum	k__Bacteria.p__Proteobacteria	-0.0834188
M01827	phylum	k__Bacteria.p__Synergistetes	-0.1232823
M01827	phylum	k__Bacteria.p__Tenericutes	-0.0988499
M01827	phylum	k__Bacteria.p__Verrucomicrobia	-0.1358297
M01868	phylum	k__Bacteria.p__Synergistetes	-0.1033863
M01868	phylum	k__Bacteria.p__Tenericutes	-0.1457655
M01868	phylum	k__Bacteria.p__Verrucomicrobia	-0.0830409
M01898	phylum	k__Bacteria.p__Lentisphaerae	-0.0870296
M01899	phylum	k__Bacteria.p__Lentisphaerae	-0.3405779
M01899	phylum	k__Bacteria.p__Synergistetes	-0.3181481
M01899	phylum	k__Bacteria.p__Tenericutes	-0.4134198
M01899	phylum	k__Bacteria.p__Verrucomicrobia	-0.3933834
M02125	phylum	k__Bacteria.p__Firmicutes	0.11012867
M02125	phylum	k__Bacteria.p__Lentisphaerae	-0.1035871
M02125	phylum	k__Bacteria.p__Tenericutes	-0.1429964
M02125	phylum	k__Bacteria.p__Verrucomicrobia	-0.1431458
M02132	phylum	k__Bacteria.p__Bacteroidetes	0.10361136
M02132	phylum	k__Bacteria.p__Lentisphaerae	-0.1373494
M02132	phylum	k__Bacteria.p__Synergistetes	-0.0834061
M02132	phylum	k__Bacteria.p__Tenericutes	-0.0920546
M02134	phylum	k__Bacteria.p__Elusimicrobia	-0.2495285
M02137	phylum	k__Bacteria.p__Deferribacteres	0.10251469
M02137	phylum	k__Bacteria.p__OD1	0.08327106
M02150	phylum	k__Archaea.p__Euryarchaeota	-0.0791462
M02150	phylum	k__Bacteria.p__Actinobacteria	-0.1231544
M02150	phylum	k__Bacteria.p__Fusobacteria	-0.0904819
M02150	phylum	k__Bacteria.p__Lentisphaerae	-0.1575168
M02150	phylum	k__Bacteria.p__Proteobacteria	-0.1344068
M02150	phylum	k__Bacteria.p__SR1	-0.0893833
M02150	phylum	k__Bacteria.p__Synergistetes	-0.1483391
M02150	phylum	k__Bacteria.p__Verrucomicrobia	-0.1204325

M02183	phylum	k__Archaea.p__Euryarchaeota	-0.0865018
M02183	phylum	k__Bacteria.p__Actinobacteria	-0.085214
M02183	phylum	k__Bacteria.p__Chlorobi	0.09869209
M02183	phylum	k__Bacteria.p__Lentisphaerae	-0.0869737
M02183	phylum	k__Bacteria.p__Synergistetes	-0.1072483
M02183	phylum	k__Bacteria.p__TM6	0.09068925
M02183	phylum	k__Bacteria.p__Verrucomicrobia	-0.1106314
M02734	phylum	k__Bacteria.p__Bacteroidetes	0.10616482
M02829	phylum	k__Bacteria.p__Actinobacteria	-0.1282336
M02829	phylum	k__Bacteria.p__Spirochaetes	-0.0926598
M02829	phylum	k__Bacteria.p__Synergistetes	-0.0951489
M02829	phylum	k__Bacteria.p__Tenericutes	-0.0996
M02829	phylum	k__Bacteria.p__Verrucomicrobia	-0.1533355
M02959	phylum	k__Bacteria.p__Acidobacteria	0.19802731
M02959	phylum	k__Bacteria.p__WPS.2	-0.2892862
M03127	phylum	k__Archaea.p__Euryarchaeota	-0.1345467
M03127	phylum	k__Bacteria.p__Armatimonadetes	-0.0874342
M03127	phylum	k__Bacteria.p__Caldithrix	-0.0883558
M03127	phylum	k__Bacteria.p__Chlamydiae	-0.1165821
M03127	phylum	k__Bacteria.p__FBP	-0.0824156
M03127	phylum	k__Bacteria.p__GN02	0.08083277
M03127	phylum	k__Bacteria.p__Lentisphaerae	-0.155855
M03127	phylum	k__Bacteria.p__Nitrospirae	-0.0847286
M03127	phylum	k__Bacteria.p__Planctomycetes	-0.0793455
M03127	phylum	k__Bacteria.p__Synergistetes	-0.1141307
M03127	phylum	k__Bacteria.p__TM7	-0.1100101
M03127	phylum	k__Bacteria.p__Verrucomicrobia	-0.1103539
M03127	phylum	k__Bacteria.p__WS3	-0.1058705
M03147	phylum	k__Archaea.p__Euryarchaeota	-0.1612683
M03147	phylum	k__Bacteria.p__Actinobacteria	-0.0848133
M03147	phylum	k__Bacteria.p__Chlamydiae	-0.1111327
M03147	phylum	k__Bacteria.p__Lentisphaerae	-0.1687466
M03147	phylum	k__Bacteria.p__Planctomycetes	-0.118146
M03147	phylum	k__Bacteria.p__Proteobacteria	-0.1326727
M03147	phylum	k__Bacteria.p__Synergistetes	-0.1538471
M03147	phylum	k__Bacteria.p__Verrucomicrobia	-0.1033734
M03155	phylum	k__Bacteria.p__Actinobacteria	-0.087178
M03155	phylum	k__Bacteria.p__Bacteroidetes	-0.0851135
M03155	phylum	k__Bacteria.p__Synergistetes	-0.1177333
M04970	phylum	k__Archaea.p__Euryarchaeota	-0.1939446
M04970	phylum	k__Bacteria.p__Armatimonadetes	-0.1743915
M04970	phylum	k__Bacteria.p__Chlamydiae	-0.1877053
M04970	phylum	k__Bacteria.p__Chlorobi	0.22497871
M04970	phylum	k__Bacteria.p__Chloroflexi	-0.2430457
M04970	phylum	k__Bacteria.p__FBP	-0.176674
M04970	phylum	k__Bacteria.p__GN02	0.17501278
M04970	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2147169
M04970	phylum	k__Bacteria.p__SR1	0.18835525
M04970	phylum	k__Bacteria.p__Spirochaetes	-0.3530363
M04970	phylum	k__Bacteria.p__TM6	0.22025984

M04970	phylum	k__Bacteria.p__Verrucomicrobia	-0.214082
M04970	phylum	k__Bacteria.p__WPS.2	-0.1983855
M05086	phylum	k__Bacteria.p__Proteobacteria	-0.0828682
M05086	phylum	k__Bacteria.p__TM6	0.09218638
M05086	phylum	k__Bacteria.p__Thermi	-0.0889218
M05341	phylum	k__Bacteria.p__Lentisphaerae	-0.1372971
M05341	phylum	k__Bacteria.p__Synergistetes	-0.0807474
M06104	phylum	k__Bacteria.p__Proteobacteria	0.09215481
M06146	phylum	k__Bacteria.p__Elusimicrobia	0.08163717
M06146	phylum	k__Bacteria.p__Planctomycetes	0.08539215
M06146	phylum	k__Bacteria.p__Tenericutes	-0.1482567
M12032	phylum	k__Bacteria.p__Deferribacteres	-0.2681647
M12032	phylum	k__Bacteria.p__Firmicutes	-0.3411685
M12110	phylum	k__Bacteria.p__Deferribacteres	-0.3242296
M12110	phylum	k__Bacteria.p__Firmicutes	-0.5538166
M12110	phylum	k__Bacteria.p__WS3	0.2594954
M12115	phylum	k__Bacteria.p__Tenericutes	0.2078514
M12129	phylum	k__Bacteria.p__Deferribacteres	-0.4245674
M12129	phylum	k__Bacteria.p__OD1	-0.2687355
M12129	phylum	k__Bacteria.p__TM7	0.21436598
M12142	phylum	k__Bacteria.p__Proteobacteria	0.08653983
M12261	phylum	k__Bacteria.p__Elusimicrobia	-0.205459
M12261	phylum	k__Bacteria.p__OD1	0.18412387
M15076	phylum	k__Bacteria.p__Armatimonadetes	-0.0919343
M15076	phylum	k__Bacteria.p__Caldithrix	-0.0983334
M15076	phylum	k__Bacteria.p__Chlamydiae	-0.0940759
M15076	phylum	k__Bacteria.p__FBP	-0.0914823
M15076	phylum	k__Bacteria.p__GN02	0.09370398
M15076	phylum	k__Bacteria.p__Nitrospirae	-0.0830606
M15122	phylum	k__Archaea.p__Euryarchaeota	-0.0939063
M15122	phylum	k__Bacteria.p__Lentisphaerae	-0.0958745
M15122	phylum	k__Bacteria.p__Synergistetes	-0.0819252
M15122	phylum	k__Bacteria.p__Verrucomicrobia	-0.183287
M15125	phylum	k__Archaea.p__Euryarchaeota	-0.2088783
M15125	phylum	k__Bacteria.p__Actinobacteria	-0.18602
M15125	phylum	k__Bacteria.p__Elusimicrobia	-0.1739205
M15135	phylum	k__Bacteria.p__Cyanobacteria	-0.127364
M15136	phylum	k__Bacteria.p__Actinobacteria	-0.5887892
M15136	phylum	k__Bacteria.p__Armatimonadetes	-0.2085247
M15136	phylum	k__Bacteria.p__Chlamydiae	-0.2741907
M15136	phylum	k__Bacteria.p__FBP	-0.1966772
M15136	phylum	k__Bacteria.p__GN02	0.1945918
M15136	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2553937
M15136	phylum	k__Bacteria.p__Nitrospirae	-0.1989408
M15136	phylum	k__Bacteria.p__Planctomycetes	-0.2635038
M15136	phylum	k__Bacteria.p__TM6	0.22498823
M15136	phylum	k__Bacteria.p__Verrucomicrobia	-0.2829296
M15136	phylum	k__Bacteria.p__WPS.2	-0.2151885
M15142	phylum	k__Bacteria.p__Firmicutes	0.13371947
M15142	phylum	k__Bacteria.p__Lentisphaerae	-0.1219216

M15142	phylum	k__Bacteria.p__OD1	0.09481507
M15308	phylum	k__Archaea.p__Euryarchaeota	-0.2691144
M15308	phylum	k__Bacteria.p__Proteobacteria	0.20742397
M15336	phylum	k__Bacteria.p__Actinobacteria	-0.1725523
M15336	phylum	k__Bacteria.p__Verrucomicrobia	-0.2161821
M15336	phylum	k__Bacteria.p__WS3	0.1849666
M15443	phylum	k__Bacteria.p__Actinobacteria	-0.1172498
M15443	phylum	k__Bacteria.p__Verrucomicrobia	-0.1702752
M15497	phylum	k__Bacteria.p__Verrucomicrobia	-0.2042295
M15500	phylum	k__Bacteria.p__Actinobacteria	-0.0905656
M15500	phylum	k__Bacteria.p__Chloroflexi	-0.0851619
M15500	phylum	k__Bacteria.p__SR1	0.08233129
M15506	phylum	k__Bacteria.p__Actinobacteria	-0.1355066
M15506	phylum	k__Bacteria.p__Verrucomicrobia	-0.0950979
M15581	phylum	k__Bacteria.p__Verrucomicrobia	-0.1378827
M15586	phylum	k__Bacteria.p__Actinobacteria	-0.1347663
M15586	phylum	k__Bacteria.p__Tenericutes	-0.0929168
M15586	phylum	k__Bacteria.p__Verrucomicrobia	-0.1478998
M15587	phylum	k__Bacteria.p__Acidobacteria	-0.080664
M15587	phylum	k__Bacteria.p__WPS.2	0.10620285
M15650	phylum	k__Bacteria.p__Tenericutes	-0.2257
M15650	phylum	k__Bacteria.p__Verrucomicrobia	-0.1893437
M15667	phylum	k__Bacteria.p__Chlorobi	0.1031874
M15673	phylum	k__Bacteria.p__Actinobacteria	-0.2389264
M15673	phylum	k__Bacteria.p__Verrucomicrobia	-0.3125058
M15676	phylum	k__Bacteria.p__Bacteroidetes	0.08124498
M15676	phylum	k__Bacteria.p__Verrucomicrobia	0.10258252
M15677	phylum	k__Archaea.p__Euryarchaeota	-0.0886601
M15677	phylum	k__Bacteria.p__Chlorobi	0.11103027
M15677	phylum	k__Bacteria.p__Lentisphaerae	-0.1475127
M15677	phylum	k__Bacteria.p__Tenericutes	-0.1724258
M15677	phylum	k__Bacteria.p__Verrucomicrobia	-0.172475
M15679	phylum	k__Archaea.p__Euryarchaeota	-0.1945994
M15679	phylum	k__Bacteria.p__Acidobacteria	0.27149344
M15679	phylum	k__Bacteria.p__Lentisphaerae	-0.2398551
M15679	phylum	k__Bacteria.p__Synergistetes	-0.2149628
M15679	phylum	k__Bacteria.p__Thermi	-0.2501697
M15679	phylum	k__Bacteria.p__Verrucomicrobia	-0.181212
M15681	phylum	k__Bacteria.p__Chlorobi	0.08969762
M15681	phylum	k__Bacteria.p__Firmicutes	0.13836011
M15681	phylum	k__Bacteria.p__Verrucomicrobia	-0.0846297
M15681	phylum	k__Bacteria.p__WS3	0.0923478
M15685	phylum	k__Archaea.p__Euryarchaeota	-0.2152249
M15685	phylum	k__Bacteria.p__Actinobacteria	-0.2247043
M15685	phylum	k__Bacteria.p__Synergistetes	-0.27133
M15685	phylum	k__Bacteria.p__Tenericutes	-0.2703022
M15685	phylum	k__Bacteria.p__Verrucomicrobia	-0.3045574
M15704	phylum	k__Bacteria.p__Actinobacteria	0.23238209
M15704	phylum	k__Bacteria.p__Armatimonadetes	0.22029547
M15704	phylum	k__Bacteria.p__Caldithrix	0.21021643

M15704	phylum	k__Bacteria.p__Chlamydiae	0.22032506
M15704	phylum	k__Bacteria.p__FBP	0.20700123
M15704	phylum	k__Bacteria.p__Fusobacteria	0.23924383
M15704	phylum	k__Bacteria.p__GN02	-0.2080748
M15704	phylum	k__Bacteria.p__Nitrospirae	0.27588311
M15705	phylum	k__Archaea.p__Euryarchaeota	-0.321327
M15705	phylum	k__Bacteria.p__Actinobacteria	-0.2249576
M15705	phylum	k__Bacteria.p__Proteobacteria	-0.2287522
M15705	phylum	k__Bacteria.p__Synergistetes	-0.282438
M15705	phylum	k__Bacteria.p__Tenericutes	-0.4197962
M15705	phylum	k__Bacteria.p__Verrucomicrobia	-0.4590663
M15716	phylum	k__Archaea.p__Euryarchaeota	0.09253741
M15720	phylum	k__Bacteria.p__Actinobacteria	-0.1047313
M15720	phylum	k__Bacteria.p__Fusobacteria	-0.100625
M15729	phylum	k__Archaea.p__Crenarchaeota	0.08403051
M15729	phylum	k__Bacteria.p__Cyanobacteria	0.10908998
M15729	phylum	k__Bacteria.p__Lentisphaerae	0.09944213
M15729	phylum	k__Bacteria.p__Spirochaetes	0.09134383
M15730	phylum	k__Archaea.p__Euryarchaeota	0.11448611
M15730	phylum	k__Bacteria.p__Bacteroidetes	0.08110307
M15730	phylum	k__Bacteria.p__Cyanobacteria	0.0818904
M15730	phylum	k__Bacteria.p__Deferribacteres	0.09640613
M15730	phylum	k__Bacteria.p__Fusobacteria	-0.1180039
M15730	phylum	k__Bacteria.p__Lentisphaerae	0.15132681
M15730	phylum	k__Bacteria.p__Synergistetes	0.08395879
M15730	phylum	k__Bacteria.p__Tenericutes	0.15041139
M15730	phylum	k__Bacteria.p__Verrucomicrobia	0.1856735
M15745	phylum	k__Bacteria.p__Synergistetes	-0.1613281
M15745	phylum	k__Bacteria.p__Verrucomicrobia	-0.1089176
M15747	phylum	k__Bacteria.p__Actinobacteria	-0.0937878
M15747	phylum	k__Bacteria.p__Lentisphaerae	-0.097496
M15747	phylum	k__Bacteria.p__Tenericutes	-0.1682884
M15747	phylum	k__Bacteria.p__Verrucomicrobia	-0.1354485
M15749	phylum	k__Archaea.p__Euryarchaeota	-0.1069405
M15749	phylum	k__Bacteria.p__Actinobacteria	-0.1723875
M15749	phylum	k__Bacteria.p__Synergistetes	-0.105009
M15749	phylum	k__Bacteria.p__Thermi	-0.0823449
M15765	phylum	k__Bacteria.p__Fusobacteria	-0.1051689
M15765	phylum	k__Bacteria.p__Synergistetes	-0.1364904
M15772	phylum	k__Bacteria.p__Actinobacteria	-0.1031757
M15772	phylum	k__Bacteria.p__Tenericutes	0.10431593
M15778	phylum	k__Bacteria.p__Thermi	-0.0842679
M15778	phylum	k__Bacteria.p__Verrucomicrobia	-0.1351838
M15797	phylum	k__Bacteria.p__Proteobacteria	-0.2104636
M15872	phylum	k__Bacteria.p__Chlorobi	0.09819232
M15872	phylum	k__Bacteria.p__Firmicutes	0.10786675
M15872	phylum	k__Bacteria.p__Fusobacteria	0.09280837
M15872	phylum	k__Bacteria.p__Spirochaetes	-0.0954373
M15872	phylum	k__Bacteria.p__TM6	0.08417339
M15872	phylum	k__Bacteria.p__TM7	0.08584112

M15872	phylum	k__Bacteria.p__WS3	0.08132528
M15949	phylum	k__Bacteria.p__Actinobacteria	-0.1288097
M15949	phylum	k__Bacteria.p__Chlorobi	0.09320129
M15949	phylum	k__Bacteria.p__Proteobacteria	-0.1038403
M15949	phylum	k__Bacteria.p__Verrucomicrobia	-0.1149584
M15958	phylum	k__Archaea.p__Euryarchaeota	-0.0879805
M15958	phylum	k__Bacteria.p__Chlorobi	0.11546947
M15958	phylum	k__Bacteria.p__Fibrobacteres	0.08846292
M15958	phylum	k__Bacteria.p__Lentisphaerae	-0.1111453
M15958	phylum	k__Bacteria.p__Synergistetes	-0.1109382
M15958	phylum	k__Bacteria.p__TM6	0.09929676
M15990	phylum	k__Bacteria.p__Actinobacteria	-0.2681329
M15990	phylum	k__Bacteria.p__Chlorobi	-0.2745913
M15990	phylum	k__Bacteria.p__Deferribacteres	0.4030921
M15990	phylum	k__Bacteria.p__OD1	0.34549896
M15990	phylum	k__Bacteria.p__TM7	-0.2963802
M15990	phylum	k__Bacteria.p__WS3	-0.3020261
M17665	phylum	k__Archaea.p__Euryarchaeota	0.17664407
M17665	phylum	k__Bacteria.p__Armatimonadetes	0.22428736
M17665	phylum	k__Bacteria.p__Bacteroidetes	0.22364695
M17665	phylum	k__Bacteria.p__Caldithrix	0.21127372
M17665	phylum	k__Bacteria.p__Chlamydiae	0.25162234
M17665	phylum	k__Bacteria.p__FBP	0.22074279
M17665	phylum	k__Bacteria.p__Fibrobacteres	-0.2010339
M17665	phylum	k__Bacteria.p__GN02	-0.2244674
M17665	phylum	k__Bacteria.p__Nitrospirae	0.22482443
M17665	phylum	k__Bacteria.p__Synergistetes	0.20586944
M17665	phylum	k__Bacteria.p__Thermi	0.17008619
M17747	phylum	k__Archaea.p__Euryarchaeota	-0.101084
M17747	phylum	k__Bacteria.p__Fusobacteria	0.11957723
M17747	phylum	k__Bacteria.p__Lentisphaerae	-0.1146415
M17747	phylum	k__Bacteria.p__Synergistetes	-0.1057126
M17747	phylum	k__Bacteria.p__Tenericutes	-0.1510946
M17747	phylum	k__Bacteria.p__Verrucomicrobia	-0.1622352
M17769	phylum	k__Archaea.p__Crenarchaeota	-0.076069
M17769	phylum	k__Archaea.p__Euryarchaeota	-0.111934
M17769	phylum	k__Bacteria.p__Armatimonadetes	-0.0761728
M17769	phylum	k__Bacteria.p__Caldithrix	-0.0764494
M17769	phylum	k__Bacteria.p__Chlamydiae	-0.0900498
M17769	phylum	k__Bacteria.p__FBP	-0.0761628
M17769	phylum	k__Bacteria.p__GN02	0.08105209
M17769	phylum	k__Bacteria.p__Lentisphaerae	-0.1871619
M17769	phylum	k__Bacteria.p__Synergistetes	-0.1067759
M17769	phylum	k__Bacteria.p__Tenericutes	-0.1837626
M17769	phylum	k__Bacteria.p__Thermi	-0.0854507
M17769	phylum	k__Bacteria.p__Verrucomicrobia	-0.0917177
M17772	phylum	k__Archaea.p__Euryarchaeota	-0.1755408
M17772	phylum	k__Bacteria.p__Fusobacteria	0.18993438
M17772	phylum	k__Bacteria.p__Lentisphaerae	-0.2532392
M17772	phylum	k__Bacteria.p__Verrucomicrobia	-0.3879462

M17805	phylum	k__Bacteria.p__Tenericutes	-0.2307348
M17805	phylum	k__Bacteria.p__Verrucomicrobia	-0.0980879
M17895	phylum	k__Bacteria.p__Fusobacteria	0.09142438
M17895	phylum	k__Bacteria.p__Synergistetes	-0.0822414
M17895	phylum	k__Bacteria.p__Tenericutes	-0.1317601
M17945	phylum	k__Bacteria.p__Fusobacteria	0.22260787
M17945	phylum	k__Bacteria.p__Verrucomicrobia	-0.2551502
M18245	phylum	k__Archaea.p__Euryarchaeota	-0.194223
M18245	phylum	k__Bacteria.p__Lentisphaerae	-0.271714
M18245	phylum	k__Bacteria.p__Synergistetes	-0.2522351
M18245	phylum	k__Bacteria.p__Verrucomicrobia	-0.2042074
M18254	phylum	k__Archaea.p__Euryarchaeota	-0.0843548
M18254	phylum	k__Bacteria.p__Lentisphaerae	-0.1542623
M18254	phylum	k__Bacteria.p__Synergistetes	-0.13011
M18254	phylum	k__Bacteria.p__Tenericutes	-0.1150425
M18254	phylum	k__Bacteria.p__Verrucomicrobia	-0.1193057
M18280	phylum	k__Archaea.p__Euryarchaeota	-0.4441361
M18280	phylum	k__Bacteria.p__Cyanobacteria	0.27520601
M18280	phylum	k__Bacteria.p__Lentisphaerae	-0.3413486
M18280	phylum	k__Bacteria.p__Verrucomicrobia	-0.4939464
M18292	phylum	k__Bacteria.p__Acidobacteria	-0.0966297
M18319	phylum	k__Bacteria.p__Bacteroidetes	-0.1034202
M18319	phylum	k__Bacteria.p__Fusobacteria	0.13740845
M18319	phylum	k__Bacteria.p__Spirochaetes	-0.0905637
M18319	phylum	k__Bacteria.p__Verrucomicrobia	-0.1090305
M18349	phylum	k__Bacteria.p__Elusimicrobia	-0.1170254
M18349	phylum	k__Bacteria.p__Proteobacteria	-0.0900907
M18349	phylum	k__Bacteria.p__Verrucomicrobia	-0.1086967
M18354	phylum	k__Archaea.p__Euryarchaeota	-0.0809324
M18354	phylum	k__Bacteria.p__Actinobacteria	-0.0836354
M18354	phylum	k__Bacteria.p__Armatimonadetes	-0.0778524
M18354	phylum	k__Bacteria.p__Caldithrix	-0.0752014
M18354	phylum	k__Bacteria.p__Chlamydiae	-0.0920496
M18354	phylum	k__Bacteria.p__FBP	-0.0758847
M18354	phylum	k__Bacteria.p__GN02	0.07485087
M18354	phylum	k__Bacteria.p__Nitrospirae	-0.0778906
M18354	phylum	k__Bacteria.p__Proteobacteria	-0.0887164
M18354	phylum	k__Bacteria.p__Synergistetes	-0.0799731
M18354	phylum	k__Bacteria.p__Tenericutes	0.16333444
M18357	phylum	k__Archaea.p__Euryarchaeota	-0.091213
M18357	phylum	k__Bacteria.p__Lentisphaerae	-0.1583531
M18357	phylum	k__Bacteria.p__Synergistetes	-0.1113459
M18357	phylum	k__Bacteria.p__Tenericutes	-0.1221812
M18357	phylum	k__Bacteria.p__Verrucomicrobia	-0.1389895
M18362	phylum	k__Archaea.p__Euryarchaeota	0.09371499
M18362	phylum	k__Bacteria.p__Fusobacteria	-0.099504
M18362	phylum	k__Bacteria.p__Lentisphaerae	0.16422377
M18362	phylum	k__Bacteria.p__Synergistetes	0.09031805
M18362	phylum	k__Bacteria.p__Tenericutes	0.25705766
M18362	phylum	k__Bacteria.p__Verrucomicrobia	0.1836826

M18369	phylum	k__Bacteria.p__Actinobacteria	-0.1245611
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M18369	phylum	k__Bacteria.p__Synergistetes	-0.0826595
M18374	phylum	k__Bacteria.p__Fusobacteria	0.08842971
M18374	phylum	k__Bacteria.p__Lentisphaerae	-0.1143405
M18374	phylum	k__Bacteria.p__TM7	-0.0951041
M18374	phylum	k__Bacteria.p__Tenericutes	-0.0975678
M18374	phylum	k__Bacteria.p__WS3	-0.1024014
M18392	phylum	k__Bacteria.p__Chlorobi	0.1929813
M18392	phylum	k__Bacteria.p__Lentisphaerae	-0.2855336
M18392	phylum	k__Bacteria.p__Tenericutes	-0.3536001
M18392	phylum	k__Bacteria.p__Verrucomicrobia	-0.2030512
M18394	phylum	k__Archaea.p__Euryarchaeota	-0.0839616
M18394	phylum	k__Bacteria.p__Synergistetes	-0.0957023
M18467	phylum	k__Bacteria.p__Actinobacteria	-0.1432691
M18467	phylum	k__Bacteria.p__Tenericutes	-0.2565792
M18467	phylum	k__Bacteria.p__Verrucomicrobia	-0.2105468
M18467	phylum	k__Bacteria.p__WPS.2	-0.082857
M18476	phylum	k__Bacteria.p__Caldithrix	-0.0869456
M18476	phylum	k__Bacteria.p__Cyanobacteria	-0.0878103
M18476	phylum	k__Bacteria.p__Synergistetes	-0.0917738
M18476	phylum	k__Bacteria.p__TM7	-0.1154016
M18476	phylum	k__Bacteria.p__WS3	-0.1264367
M18477	phylum	k__Bacteria.p__Caldithrix	-0.0825432
M18477	phylum	k__Bacteria.p__Lentisphaerae	-0.1516707
M18494	phylum	k__Archaea.p__Euryarchaeota	-0.2016001
M18494	phylum	k__Bacteria.p__Synergistetes	-0.2979957
M18497	phylum	k__Bacteria.p__Synergistetes	-0.2312516
M19130	phylum	k__Bacteria.p__Acidobacteria	0.17666557
M19130	phylum	k__Bacteria.p__Deferribacteres	0.28587758
M19130	phylum	k__Bacteria.p__OD1	0.24209175
M19130	phylum	k__Bacteria.p__Planctomycetes	0.21072225
M19130	phylum	k__Bacteria.p__Proteobacteria	0.17268011
M19130	phylum	k__Bacteria.p__Spirochaetes	0.23552102
M19130	phylum	k__Bacteria.p__TM7	-0.1778113
M19130	phylum	k__Bacteria.p__Thermi	-0.1874064
M19130	phylum	k__Bacteria.p__WPS.2	-0.1610215
M19263	phylum	k__Bacteria.p__Deferribacteres	0.284333
M19263	phylum	k__Bacteria.p__Fusobacteria	-0.2249169
M19263	phylum	k__Bacteria.p__Lentisphaerae	0.34926913
M19263	phylum	k__Bacteria.p__OD1	0.25455581
M19263	phylum	k__Bacteria.p__Synergistetes	0.20088957
M19263	phylum	k__Bacteria.p__Thermi	-0.2344243
M19324	phylum	k__Bacteria.p__Actinobacteria	-0.1974422
M19324	phylum	k__Bacteria.p__Chloroflexi	-0.2016435
M19324	phylum	k__Bacteria.p__Fusobacteria	0.17394422
M19324	phylum	k__Bacteria.p__Verrucomicrobia	-0.2409686
M20691	phylum	k__Bacteria.p__Acidobacteria	0.08627841
M20691	phylum	k__Bacteria.p__Lentisphaerae	-0.0978832
M20691	phylum	k__Bacteria.p__SR1	-0.0917858

M20691	phylum	k__Bacteria.p__Spirochaetes	0.09658161
M20691	phylum	k__Bacteria.p__Synergistetes	-0.1553189
M20691	phylum	k__Bacteria.p__Tenericutes	-0.1388252
M20703	phylum	k__Bacteria.p__Bacteroidetes	0.10428154
M20703	phylum	k__Bacteria.p__Firmicutes	-0.1055375
M20703	phylum	k__Bacteria.p__Fusobacteria	-0.0785271
M20758	phylum	k__Archaea.p__Euryarchaeota	-0.092748
M20758	phylum	k__Bacteria.p__Actinobacteria	-0.1535077
M20758	phylum	k__Bacteria.p__Synergistetes	-0.0859423
M20758	phylum	k__Bacteria.p__Verrucomicrobia	-0.1827578
M21046	phylum	k__Bacteria.p__Actinobacteria	-0.2096913
M21046	phylum	k__Bacteria.p__TM6	0.1964885
M21046	phylum	k__Bacteria.p__TM7	0.30115246
M21046	phylum	k__Bacteria.p__Verrucomicrobia	-0.2053111
M21046	phylum	k__Bacteria.p__WS3	0.27599727
M21127	phylum	k__Bacteria.p__Bacteroidetes	-0.1006294
M21127	phylum	k__Bacteria.p__Fusobacteria	0.10361699
M21127	phylum	k__Bacteria.p__Proteobacteria	0.10556359
M21127	phylum	k__Bacteria.p__Tenericutes	-0.1365351
M21127	phylum	k__Bacteria.p__Verrucomicrobia	-0.1274672
M21133	phylum	k__Bacteria.p__Acidobacteria	0.19452333
M21133	phylum	k__Bacteria.p__Chlorobi	-0.2673324
M21133	phylum	k__Bacteria.p__Deferribacteres	0.47091494
M21133	phylum	k__Bacteria.p__OD1	0.28245926
M21133	phylum	k__Bacteria.p__Spirochaetes	0.47480756
M21133	phylum	k__Bacteria.p__TM6	-0.2290554
M21133	phylum	k__Bacteria.p__TM7	-0.3822649
M21133	phylum	k__Bacteria.p__WS3	-0.2179563
M21134	phylum	k__Bacteria.p__Lentisphaerae	0.09132229
M21134	phylum	k__Bacteria.p__Verrucomicrobia	0.09273946
M21151	phylum	k__Archaea.p__Euryarchaeota	-0.2010551
M21151	phylum	k__Bacteria.p__Actinobacteria	-0.2529919
M21151	phylum	k__Bacteria.p__Synergistetes	-0.2164342
M21151	phylum	k__Bacteria.p__Thermi	-0.1868659
M21151	phylum	k__Bacteria.p__Verrucomicrobia	-0.2797979
M21158	phylum	k__Bacteria.p__Fusobacteria	0.12219091
M21158	phylum	k__Bacteria.p__Proteobacteria	0.09329926
M21169	phylum	k__Bacteria.p__Bacteroidetes	0.08105437
M21169	phylum	k__Bacteria.p__Chloroflexi	0.08133216
M21169	phylum	k__Bacteria.p__Fusobacteria	-0.1002488
M21169	phylum	k__Bacteria.p__Spirochaetes	0.08874406
M21177	phylum	k__Bacteria.p__Cyanobacteria	0.10802668
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M21183	phylum	k__Bacteria.p__Deferribacteres	0.25468104
M21183	phylum	k__Bacteria.p__Firmicutes	0.22677951
M21183	phylum	k__Bacteria.p__OD1	0.21730182
M21183	phylum	k__Bacteria.p__Planctomycetes	0.21518544
M21183	phylum	k__Bacteria.p__Proteobacteria	0.20278643
M21183	phylum	k__Bacteria.p__TM7	-0.1854342
M21183	phylum	k__Bacteria.p__Tenericutes	-0.2740074

M21184	phylum	k__Bacteria.p__Bacteroidetes	-0.2436164
M21184	phylum	k__Bacteria.p__Thermi	0.20684352
M21184	phylum	k__Bacteria.p__Verrucomicrobia	-0.2140926
M21184	phylum	k__Bacteria.p__WPS.2	0.22677014
M21189	phylum	k__Bacteria.p__SR1	-0.2320994
M21232	phylum	k__Bacteria.p__Verrucomicrobia	-0.2318159
M21300	phylum	k__Bacteria.p__Lentisphaerae	-0.2653749
M21300	phylum	k__Bacteria.p__SR1	-0.2330788
M22116	phylum	k__Bacteria.p__Bacteroidetes	0.09256862
M22118	phylum	k__Bacteria.p__Actinobacteria	-0.0798395
M22118	phylum	k__Bacteria.p__Bacteroidetes	0.08522201
M22118	phylum	k__Bacteria.p__Firmicutes	-0.115296
M22118	phylum	k__Bacteria.p__Thermi	-0.0881905
M22120	phylum	k__Bacteria.p__Verrucomicrobia	-0.1649878
M22130	phylum	k__Bacteria.p__Cyanobacteria	0.08042985
M22130	phylum	k__Bacteria.p__Elusimicrobia	-0.0924939
M22130	phylum	k__Bacteria.p__Planctomycetes	-0.097863
M22130	phylum	k__Bacteria.p__Proteobacteria	-0.1120286
M22130	phylum	k__Bacteria.p__Synergistetes	-0.1056381
M22130	phylum	k__Bacteria.p__Verrucomicrobia	-0.0896648
M22138	phylum	k__Bacteria.p__Cyanobacteria	0.10061936
M22138	phylum	k__Bacteria.p__Firmicutes	0.09877025
M22138	phylum	k__Bacteria.p__Fusobacteria	0.08171209
M22138	phylum	k__Bacteria.p__Lentisphaerae	-0.1152793
M22138	phylum	k__Bacteria.p__Tenericutes	-0.2435049
M22138	phylum	k__Bacteria.p__Verrucomicrobia	-0.2035025
M22176	phylum	k__Archaea.p__Euryarchaeota	-0.1192556
M22185	phylum	k__Bacteria.p__Actinobacteria	-0.0898983
M22185	phylum	k__Bacteria.p__Cyanobacteria	0.09150558
M22206	phylum	k__Bacteria.p__Firmicutes	0.26624121
M22206	phylum	k__Bacteria.p__Planctomycetes	0.23816196
M22206	phylum	k__Bacteria.p__Proteobacteria	0.19278233
M22206	phylum	k__Bacteria.p__Spirochaetes	0.22415528
M22206	phylum	k__Bacteria.p__TM6	-0.1939691
M22206	phylum	k__Bacteria.p__Tenericutes	0.23030639
M22273	phylum	k__Archaea.p__Crenarchaeota	0.23756854
M22273	phylum	k__Archaea.p__Euryarchaeota	-0.1997282
M22273	phylum	k__Bacteria.p__Acidobacteria	0.27531862
M22273	phylum	k__Bacteria.p__Chloroflexi	0.19604603
M22273	phylum	k__Bacteria.p__Deferribacteres	0.35822694
M22273	phylum	k__Bacteria.p__Gemmatimonadetes	0.17075014
M22273	phylum	k__Bacteria.p__OD1	0.28602095
M22273	phylum	k__Bacteria.p__Planctomycetes	0.23292979
M22273	phylum	k__Bacteria.p__Spirochaetes	0.20076782
M22842	phylum	k__Bacteria.p__Bacteroidetes	-0.1142562
M22842	phylum	k__Bacteria.p__Fusobacteria	0.07795251
M22842	phylum	k__Bacteria.p__Verrucomicrobia	-0.0932279
M27447	phylum	k__Bacteria.p__Bacteroidetes	-0.1203106
M27447	phylum	k__Bacteria.p__Verrucomicrobia	-0.1089896
M27513	phylum	k__Archaea.p__Euryarchaeota	-0.0950574

M27513	phylum	k__Bacteria.p__SR1	0.08686274
M27513	phylum	k__Bacteria.p__Synergistetes	-0.0818902
M27513	phylum	k__Bacteria.p__Verrucomicrobia	-0.1151044
M27536	phylum	k__Bacteria.p__Acidobacteria	0.35024451
M27536	phylum	k__Bacteria.p__Deferribacteres	0.25840877
M27536	phylum	k__Bacteria.p__OD1	0.27640835
M27536	phylum	k__Bacteria.p__Planctomycetes	0.33264276
M27553	phylum	k__Bacteria.p__Chloroflexi	0.29015692
M27553	phylum	k__Bacteria.p__Deferribacteres	0.29774445
M27553	phylum	k__Bacteria.p__Firmicutes	0.3432519
M27553	phylum	k__Bacteria.p__OD1	0.275927
M27553	phylum	k__Bacteria.p__Spirochaetes	0.29707812
M27553	phylum	k__Bacteria.p__TM6	-0.2107439
M27665	phylum	k__Bacteria.p__Firmicutes	0.26709258
M27665	phylum	k__Bacteria.p__Lentisphaerae	-0.253237
M27665	phylum	k__Bacteria.p__Synergistetes	-0.2122162
M27673	phylum	k__Bacteria.p__Bacteroidetes	0.10233435
M27673	phylum	k__Bacteria.p__Firmicutes	-0.0871913
M27673	phylum	k__Bacteria.p__Fusobacteria	-0.094778
M27673	phylum	k__Bacteria.p__Synergistetes	-0.0852728
M27680	phylum	k__Bacteria.p__Elusimicrobia	0.08880194
M27680	phylum	k__Bacteria.p__Firmicutes	0.11363658
M27680	phylum	k__Bacteria.p__Verrucomicrobia	-0.1362698
M27710	phylum	k__Bacteria.p__Actinobacteria	-0.0936552
M27710	phylum	k__Bacteria.p__Chloroflexi	-0.0816388
M27718	phylum	k__Bacteria.p__Chloroflexi	-0.1305184
M27718	phylum	k__Bacteria.p__Fusobacteria	0.08400122
M27718	phylum	k__Bacteria.p__SR1	0.15457024
M27719	phylum	k__Bacteria.p__Cyanobacteria	0.08505841
M27719	phylum	k__Bacteria.p__Fusobacteria	0.09412283
M27719	phylum	k__Bacteria.p__Proteobacteria	0.11950995
M27722	phylum	k__Bacteria.p__Fusobacteria	0.09651461
M27731	phylum	k__Archaea.p__Crenarchaeota	0.0923429
M27731	phylum	k__Archaea.p__Euryarchaeota	0.09465284
M27731	phylum	k__Bacteria.p__Chlorobi	-0.1217603
M27731	phylum	k__Bacteria.p__FBP	0.07599057
M27731	phylum	k__Bacteria.p__Fibrobacteres	-0.1225241
M27731	phylum	k__Bacteria.p__GN02	-0.0756357
M27731	phylum	k__Bacteria.p__OD1	0.097791
M27731	phylum	k__Bacteria.p__Proteobacteria	0.10483248
M27738	phylum	k__Bacteria.p__Fusobacteria	0.0933479
M27738	phylum	k__Bacteria.p__Lentisphaerae	-0.0900278
M27738	phylum	k__Bacteria.p__Synergistetes	-0.0767723
M27738	phylum	k__Bacteria.p__Tenericutes	-0.1076677
M27738	phylum	k__Bacteria.p__Verrucomicrobia	-0.1399511
M30460	phylum	k__Archaea.p__Euryarchaeota	0.21325157
M31530	phylum	k__Bacteria.p__Actinobacteria	-0.1088133
M31530	phylum	k__Bacteria.p__Verrucomicrobia	-0.1210096
M31532	phylum	k__Bacteria.p__Actinobacteria	-0.1755917
M31532	phylum	k__Bacteria.p__Cyanobacteria	0.08945078

M31532	phylum	k__Bacteria.p__Verrucomicrobia	-0.089723
M31539	phylum	k__Bacteria.p__Chlorobi	0.09089459
M31539	phylum	k__Bacteria.p__Synergistetes	-0.1141383
M31539	phylum	k__Bacteria.p__TM6	0.08537882
M31555	phylum	k__Archaea.p__Euryarchaeota	-0.1151865
M31555	phylum	k__Bacteria.p__Chlamydiae	-0.0984676
M31555	phylum	k__Bacteria.p__FBP	-0.0817568
M31555	phylum	k__Bacteria.p__Fusobacteria	-0.1193337
M31555	phylum	k__Bacteria.p__GN02	0.08281202
M31555	phylum	k__Bacteria.p__Lentisphaerae	-0.0996143
M31555	phylum	k__Bacteria.p__Synergistetes	-0.2341785
M31555	phylum	k__Bacteria.p__Thermi	-0.1037722
M31555	phylum	k__Bacteria.p__Verrucomicrobia	-0.1047757
M31675	phylum	k__Archaea.p__Euryarchaeota	0.1685611
M31675	phylum	k__Bacteria.p__Bacteroidetes	0.16728589
M31675	phylum	k__Bacteria.p__Caldithrix	0.17561508
M31675	phylum	k__Bacteria.p__Fibrobacteres	-0.1828326
M31675	phylum	k__Bacteria.p__Nitrospirae	0.17452316
M31675	phylum	k__Bacteria.p__OD1	0.1816345
M31675	phylum	k__Bacteria.p__Verrucomicrobia	0.25913607
M31850	phylum	k__Bacteria.p__Lentisphaerae	-0.1858201
M31850	phylum	k__Bacteria.p__Spirochaetes	0.21827287
M31891	phylum	k__Archaea.p__Euryarchaeota	0.10295322
M31891	phylum	k__Bacteria.p__Fusobacteria	-0.1066701
M31891	phylum	k__Bacteria.p__Verrucomicrobia	0.09197761
M31904	phylum	k__Bacteria.p__Tenericutes	-0.2482674
M31904	phylum	k__Bacteria.p__Verrucomicrobia	-0.3348581
M31906	phylum	k__Bacteria.p__Tenericutes	-0.2631941
M31906	phylum	k__Bacteria.p__Verrucomicrobia	-0.3076571
M31912	phylum	k__Bacteria.p__Lentisphaerae	-0.1915947
M31932	phylum	k__Bacteria.p__Cyanobacteria	0.10170526
M31932	phylum	k__Bacteria.p__Spirochaetes	0.1029314
M31938	phylum	k__Bacteria.p__Synergistetes	-0.1085588
M31938	phylum	k__Bacteria.p__TM6	0.08434478
M31938	phylum	k__Bacteria.p__Tenericutes	0.09934672
M31943	phylum	k__Archaea.p__Euryarchaeota	-0.2271569
M31943	phylum	k__Bacteria.p__Fusobacteria	0.22254617
M31943	phylum	k__Bacteria.p__Lentisphaerae	-0.3502953
M31943	phylum	k__Bacteria.p__Proteobacteria	-0.1943762
M31943	phylum	k__Bacteria.p__Synergistetes	-0.2605437
M31943	phylum	k__Bacteria.p__Tenericutes	-0.537299
M31943	phylum	k__Bacteria.p__Thermi	-0.185212
M31943	phylum	k__Bacteria.p__Verrucomicrobia	-0.3511164
M32197	phylum	k__Bacteria.p__Actinobacteria	-0.0985725
M32197	phylum	k__Bacteria.p__Planctomycetes	-0.1100525
M32197	phylum	k__Bacteria.p__Proteobacteria	-0.1072402
M32197	phylum	k__Bacteria.p__Verrucomicrobia	-0.0867917
M32306	phylum	k__Bacteria.p__Actinobacteria	-0.1308834
M32306	phylum	k__Bacteria.p__Fusobacteria	0.08280408
M32306	phylum	k__Bacteria.p__Synergistetes	-0.0876148

M32306	phylum	k__Bacteria.p__Verrucomicrobia	-0.1601256
M32342	phylum	k__Archaea.p__Euryarchaeota	-0.2674174
M32342	phylum	k__Bacteria.p__Actinobacteria	-0.2051737
M32342	phylum	k__Bacteria.p__Chlorobi	-0.2188325
M32342	phylum	k__Bacteria.p__Deferribacteres	0.25316114
M32342	phylum	k__Bacteria.p__Elusimicrobia	-0.223552
M32342	phylum	k__Bacteria.p__Spirochaetes	0.31365191
M32342	phylum	k__Bacteria.p__TM7	-0.3546757
M32342	phylum	k__Bacteria.p__Tenericutes	-0.3056628
M32342	phylum	k__Bacteria.p__WS3	-0.3158073
M32346	phylum	k__Bacteria.p__Caldithrix	-0.1204481
M32346	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0845284
M32346	phylum	k__Bacteria.p__Synergistetes	-0.1049331
M32346	phylum	k__Bacteria.p__TM7	-0.1085577
M32346	phylum	k__Bacteria.p__Thermi	-0.0831289
M32346	phylum	k__Bacteria.p__WS3	-0.1265416
M32349	phylum	k__Archaea.p__Euryarchaeota	0.07968173
M32349	phylum	k__Bacteria.p__Acidobacteria	0.11014091
M32349	phylum	k__Bacteria.p__Bacteroidetes	0.09118407
M32349	phylum	k__Bacteria.p__Synergistetes	0.0971581
M32349	phylum	k__Bacteria.p__Tenericutes	-0.1810479
M32350	phylum	k__Bacteria.p__Firmicutes	-0.0939629
M32350	phylum	k__Bacteria.p__Fusobacteria	-0.1081405
M32352	phylum	k__Archaea.p__Euryarchaeota	-0.0897416
M32352	phylum	k__Bacteria.p__Acidobacteria	0.09707931
M32352	phylum	k__Bacteria.p__Actinobacteria	-0.1132036
M32352	phylum	k__Bacteria.p__Thermi	-0.0852222
M32352	phylum	k__Bacteria.p__Verrucomicrobia	-0.0949288
M32377	phylum	k__Bacteria.p__Acidobacteria	-0.1118035
M32377	phylum	k__Bacteria.p__Actinobacteria	-0.0864163
M32377	phylum	k__Bacteria.p__Chloroflexi	-0.1253942
M32377	phylum	k__Bacteria.p__Cyanobacteria	0.08018836
M32377	phylum	k__Bacteria.p__SR1	0.11738562
M32377	phylum	k__Bacteria.p__Verrucomicrobia	-0.0881389
M32388	phylum	k__Archaea.p__Euryarchaeota	0.0953724
M32388	phylum	k__Bacteria.p__Actinobacteria	-0.1109003
M32388	phylum	k__Bacteria.p__Lentisphaerae	0.17246028
M32388	phylum	k__Bacteria.p__Synergistetes	0.10466459
M32388	phylum	k__Bacteria.p__Tenericutes	0.23825126
M32388	phylum	k__Bacteria.p__Verrucomicrobia	0.09330381
M32390	phylum	k__Bacteria.p__Lentisphaerae	-0.156666
M32390	phylum	k__Bacteria.p__Proteobacteria	-0.0820932
M32390	phylum	k__Bacteria.p__Synergistetes	-0.101951
M32391	phylum	k__Bacteria.p__Fusobacteria	-0.0808652
M32398	phylum	k__Bacteria.p__Fusobacteria	-0.1383976
M32398	phylum	k__Bacteria.p__Lentisphaerae	0.09966026
M32398	phylum	k__Bacteria.p__TM6	0.07320899
M32398	phylum	k__Bacteria.p__Tenericutes	0.18016387
M32398	phylum	k__Bacteria.p__Verrucomicrobia	0.1161839
M32401	phylum	k__Archaea.p__Euryarchaeota	-0.1054371

M32401	phylum	k__Bacteria.p__Cyanobacteria	0.09271463
M32401	phylum	k__Bacteria.p__Firmicutes	0.09994175
M32401	phylum	k__Bacteria.p__Lentisphaerae	-0.1237636
M32401	phylum	k__Bacteria.p__Synergistetes	-0.0849574
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M32405	phylum	k__Archaea.p__Euryarchaeota	-0.127851
M32405	phylum	k__Bacteria.p__Acidobacteria	0.08118498
M32405	phylum	k__Bacteria.p__Lentisphaerae	-0.1428269
M32405	phylum	k__Bacteria.p__Synergistetes	-0.1645966
M32405	phylum	k__Bacteria.p__Verrucomicrobia	-0.1916636
M32413	phylum	k__Archaea.p__Crenarchaeota	-0.206075
M32413	phylum	k__Bacteria.p__Armatimonadetes	-0.2630806
M32413	phylum	k__Bacteria.p__Chlamydiae	-0.2508746
M32413	phylum	k__Bacteria.p__Chlorobi	0.33063822
M32413	phylum	k__Bacteria.p__FBP	-0.2734277
M32413	phylum	k__Bacteria.p__Fibrobacteres	0.28042792
M32413	phylum	k__Bacteria.p__Nitrospirae	-0.2593516
M32413	phylum	k__Bacteria.p__OD1	-0.2714251
M32413	phylum	k__Bacteria.p__TM6	0.33217088
M32415	phylum	k__Bacteria.p__Synergistetes	0.10892465
M32415	phylum	k__Bacteria.p__Verrucomicrobia	0.11036913
M32418	phylum	k__Bacteria.p__Tenericutes	-0.1135113
M32418	phylum	k__Bacteria.p__Verrucomicrobia	-0.1609974
M32425	phylum	k__Archaea.p__Euryarchaeota	-0.2355869
M32425	phylum	k__Bacteria.p__Lentisphaerae	-0.3149362
M32425	phylum	k__Bacteria.p__Tenericutes	-0.5134535
M32425	phylum	k__Bacteria.p__Verrucomicrobia	-0.4303494
M32426	phylum	k__Bacteria.p__Actinobacteria	0.26775168
M32426	phylum	k__Bacteria.p__Lentisphaerae	-0.244038
M32426	phylum	k__Bacteria.p__Tenericutes	-0.2629376
M32426	phylum	k__Bacteria.p__Thermi	0.21831638
M32445	phylum	k__Archaea.p__Euryarchaeota	-0.2435881
M32445	phylum	k__Bacteria.p__Chlorobi	0.24735951
M32445	phylum	k__Bacteria.p__Fibrobacteres	0.20842701
M32445	phylum	k__Bacteria.p__Lentisphaerae	-0.283669
M32445	phylum	k__Bacteria.p__Synergistetes	-0.2096197
M32445	phylum	k__Bacteria.p__TM6	0.194686
M32445	phylum	k__Bacteria.p__Tenericutes	-0.3017981
M32445	phylum	k__Bacteria.p__Verrucomicrobia	-0.2415479
M32446	phylum	k__Archaea.p__Euryarchaeota	-0.1864024
M32446	phylum	k__Bacteria.p__Lentisphaerae	-0.3980313
M32446	phylum	k__Bacteria.p__Proteobacteria	-0.2463514
M32446	phylum	k__Bacteria.p__Spirochaetes	-0.2092256
M32446	phylum	k__Bacteria.p__Synergistetes	-0.3441448
M32446	phylum	k__Bacteria.p__TM6	0.18632412
M32453	phylum	k__Archaea.p__Crenarchaeota	0.23486952
M32453	phylum	k__Bacteria.p__Armatimonadetes	0.21300689
M32453	phylum	k__Bacteria.p__Chlamydiae	0.22444627
M32453	phylum	k__Bacteria.p__Deferribacteres	0.22595462
M32453	phylum	k__Bacteria.p__FBP	0.21178504

M32453	phylum	k__Bacteria.p__Firmicutes	0.31888976
M32453	phylum	k__Bacteria.p__GN02	-0.2053628
M32455	phylum	k__Bacteria.p__Actinobacteria	-0.129329
M32455	phylum	k__Bacteria.p__Bacteroidetes	-0.1060662
M32455	phylum	k__Bacteria.p__Lentisphaerae	-0.1043628
M32455	phylum	k__Bacteria.p__Planctomycetes	-0.0863026
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M32457	phylum	k__Bacteria.p__Acidobacteria	0.25237535
M32457	phylum	k__Bacteria.p__Fusobacteria	0.30373878
M32457	phylum	k__Bacteria.p__WS3	0.23808082
M32462	phylum	k__Archaea.p__Crenarchaeota	-0.2144459
M32462	phylum	k__Bacteria.p__Acidobacteria	-0.2094024
M32462	phylum	k__Bacteria.p__Bacteroidetes	-0.2672408
M32462	phylum	k__Bacteria.p__Deferribacteres	-0.2851425
M32462	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2611516
M32462	phylum	k__Bacteria.p__OD1	-0.2467377
M32462	phylum	k__Bacteria.p__Planctomycetes	-0.2868101
M32489	phylum	k__Bacteria.p__Actinobacteria	-0.1136281
M32489	phylum	k__Bacteria.p__Synergistetes	-0.0849474
M32489	phylum	k__Bacteria.p__WPS.2	-0.079163
M32492	phylum	k__Bacteria.p__Cyanobacteria	0.10450229
M32492	phylum	k__Bacteria.p__Deferribacteres	-0.1162613
M32492	phylum	k__Bacteria.p__OD1	-0.0991034
M32492	phylum	k__Bacteria.p__Spirochaetes	-0.1277099
M32504	phylum	k__Bacteria.p__Actinobacteria	-0.0866727
M32504	phylum	k__Bacteria.p__Fusobacteria	0.11713375
M32504	phylum	k__Bacteria.p__Tenericutes	-0.2919172
M32504	phylum	k__Bacteria.p__Verrucomicrobia	-0.2138474
M32506	phylum	k__Bacteria.p__Verrucomicrobia	-0.2194011
M32562	phylum	k__Bacteria.p__Actinobacteria	-0.241146
M32562	phylum	k__Bacteria.p__Proteobacteria	0.19575556
M32562	phylum	k__Bacteria.p__Tenericutes	-0.4267835
M32562	phylum	k__Bacteria.p__Verrucomicrobia	-0.3742771
M32619	phylum	k__Bacteria.p__Lentisphaerae	-0.3170551
M32619	phylum	k__Bacteria.p__Tenericutes	-0.6840497
M32619	phylum	k__Bacteria.p__Verrucomicrobia	-0.5671185
M32807	phylum	k__Bacteria.p__Fusobacteria	0.20411022
M32980	phylum	k__Bacteria.p__Tenericutes	-0.2874753
M32984	phylum	k__Archaea.p__Euryarchaeota	-0.1345618
M32984	phylum	k__Bacteria.p__Actinobacteria	-0.1110791
M32984	phylum	k__Bacteria.p__Bacteroidetes	-0.0935721
M32984	phylum	k__Bacteria.p__Lentisphaerae	-0.1493578
M32984	phylum	k__Bacteria.p__Proteobacteria	-0.0787467
M32984	phylum	k__Bacteria.p__Synergistetes	-0.1438995
M32984	phylum	k__Bacteria.p__Tenericutes	-0.1429354
M32984	phylum	k__Bacteria.p__Verrucomicrobia	-0.15678
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M33013	phylum	k__Bacteria.p__Cyanobacteria	0.0938346

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M33013	phylum	k__Bacteria.p__Verrucomicrobia	-0.1296499
M33021	phylum	k__Bacteria.p__Firmicutes	-0.1966694
M33021	phylum	k__Bacteria.p__Synergistetes	0.20574572
M33021	phylum	k__Bacteria.p__Tenericutes	0.35134403
M33021	phylum	k__Bacteria.p__Verrucomicrobia	0.35005533
M33418	phylum	k__Bacteria.p__Acidobacteria	0.25506176
M33418	phylum	k__Bacteria.p__Chloroflexi	0.2361037
M33418	phylum	k__Bacteria.p__Deferribacteres	0.27850677
M33418	phylum	k__Bacteria.p__OD1	0.19891665
M33418	phylum	k__Bacteria.p__Planctomycetes	0.1934425
M33418	phylum	k__Bacteria.p__Spirochaetes	0.30271978
M33418	phylum	k__Bacteria.p__TM7	-0.2314879
M33422	phylum	k__Bacteria.p__Actinobacteria	-0.1245565
M33422	phylum	k__Bacteria.p__Proteobacteria	-0.095026
M33422	phylum	k__Bacteria.p__Synergistetes	-0.0892465
M33442	phylum	k__Archaea.p__Euryarchaeota	-0.0899152
M33442	phylum	k__Bacteria.p__Actinobacteria	-0.1859233
M33442	phylum	k__Bacteria.p__Chlamydiae	-0.0921215
M33442	phylum	k__Bacteria.p__Elusimicrobia	-0.0912966
M33442	phylum	k__Bacteria.p__Gemmatimonadetes	-0.1203322
M33442	phylum	k__Bacteria.p__Nitrospirae	-0.0862882
M33442	phylum	k__Bacteria.p__Planctomycetes	-0.1051523
M33442	phylum	k__Bacteria.p__Proteobacteria	-0.0803197
M33442	phylum	k__Bacteria.p__Synergistetes	-0.0891374
M33442	phylum	k__Bacteria.p__Verrucomicrobia	-0.0807565
M33443	phylum	k__Bacteria.p__Acidobacteria	0.10483546
M33443	phylum	k__Bacteria.p__Actinobacteria	-0.0837488
M33443	phylum	k__Bacteria.p__Fusobacteria	0.08353946
M33443	phylum	k__Bacteria.p__Thermi	-0.0917578
M33444	phylum	k__Bacteria.p__Actinobacteria	0.08837147
M33444	phylum	k__Bacteria.p__Lentisphaerae	-0.0927254
M33447	phylum	k__Bacteria.p__Cyanobacteria	0.10734155
M33447	phylum	k__Bacteria.p__Fusobacteria	0.08626425
M33447	phylum	k__Bacteria.p__Tenericutes	-0.1867982
M33447	phylum	k__Bacteria.p__Verrucomicrobia	-0.1430144
M33471	phylum	k__Archaea.p__Euryarchaeota	-0.1010339
M33471	phylum	k__Bacteria.p__Bacteroidetes	0.13602144
M33471	phylum	k__Bacteria.p__Synergistetes	-0.1586621
M33487	phylum	k__Bacteria.p__Cyanobacteria	0.10786077
M33487	phylum	k__Bacteria.p__Firmicutes	0.15495063
M33587	phylum	k__Bacteria.p__Bacteroidetes	-0.0822615
M33587	phylum	k__Bacteria.p__Tenericutes	-0.1018402
M33934	phylum	k__Archaea.p__Euryarchaeota	-0.0945131
M33934	phylum	k__Bacteria.p__Actinobacteria	-0.0888165
M33934	phylum	k__Bacteria.p__Lentisphaerae	-0.1132183
M33934	phylum	k__Bacteria.p__Tenericutes	-0.1209224
M33934	phylum	k__Bacteria.p__Verrucomicrobia	-0.1357883
M33935	phylum	k__Bacteria.p__Verrucomicrobia	-0.1088874
M33942	phylum	k__Bacteria.p__Lentisphaerae	-0.0916276

M33942	phylum	k__Bacteria.p__Proteobacteria	-0.0858034
M33942	phylum	k__Bacteria.p__Tenericutes	-0.1205096
M33943	phylum	k__Bacteria.p__Firmicutes	0.09982901
M33943	phylum	k__Bacteria.p__Lentisphaerae	-0.1070484
M33946	phylum	k__Archaea.p__Euryarchaeota	-0.0888646
M33946	phylum	k__Bacteria.p__Actinobacteria	-0.0991765
M33946	phylum	k__Bacteria.p__Lentisphaerae	-0.1509095
M33946	phylum	k__Bacteria.p__Synergistetes	-0.1552251
M33946	phylum	k__Bacteria.p__Tenericutes	-0.1670387
M33946	phylum	k__Bacteria.p__Verrucomicrobia	-0.1675659
M33949	phylum	k__Bacteria.p__Fibrobacteres	-0.0966956
M33949	phylum	k__Bacteria.p__Spirochaetes	0.09695935
M33950	phylum	k__Archaea.p__Euryarchaeota	-0.0823577
M33950	phylum	k__Bacteria.p__Lentisphaerae	-0.1281443
M33950	phylum	k__Bacteria.p__Synergistetes	-0.0990063
M33950	phylum	k__Bacteria.p__WS3	-0.0853413
M33953	phylum	k__Archaea.p__Euryarchaeota	-0.0807472
M33953	phylum	k__Bacteria.p__Actinobacteria	-0.1258671
M33953	phylum	k__Bacteria.p__Bacteroidetes	0.10950754
M33953	phylum	k__Bacteria.p__Lentisphaerae	-0.164117
M33953	phylum	k__Bacteria.p__Synergistetes	-0.1231951
M33953	phylum	k__Bacteria.p__Tenericutes	-0.1467072
M33953	phylum	k__Bacteria.p__Verrucomicrobia	-0.1547172
M33955	phylum	k__Bacteria.p__Verrucomicrobia	-0.0991618
M33959	phylum	k__Bacteria.p__Bacteroidetes	0.1077485
M33959	phylum	k__Bacteria.p__Verrucomicrobia	0.10876814
M33961	phylum	k__Bacteria.p__Actinobacteria	-0.0839703
M33961	phylum	k__Bacteria.p__Proteobacteria	0.10821505
M33965	phylum	k__Bacteria.p__Acidobacteria	-0.1981289
M33965	phylum	k__Bacteria.p__Chloroflexi	-0.1901123
M33965	phylum	k__Bacteria.p__Tenericutes	-0.2476541
M33967	phylum	k__Bacteria.p__Lentisphaerae	-0.1086374
M33968	phylum	k__Bacteria.p__Fusobacteria	0.10009295
M33968	phylum	k__Bacteria.p__Verrucomicrobia	-0.118727
M33969	phylum	k__Bacteria.p__Tenericutes	-0.4471265
M33971	phylum	k__Bacteria.p__Actinobacteria	-0.0922915
M33971	phylum	k__Bacteria.p__Planctomycetes	-0.0922952
M33971	phylum	k__Bacteria.p__Proteobacteria	0.15966987
M33971	phylum	k__Bacteria.p__Tenericutes	-0.1137167
M33972	phylum	k__Archaea.p__Crenarchaeota	-0.2191454
M33972	phylum	k__Bacteria.p__Chlorobi	0.36089554
M33972	phylum	k__Bacteria.p__OD1	-0.2321674
M33972	phylum	k__Bacteria.p__Proteobacteria	-0.1971403
M33972	phylum	k__Bacteria.p__Synergistetes	-0.2115531
M33972	phylum	k__Bacteria.p__TM6	0.31326699
M33972	phylum	k__Bacteria.p__TM7	0.32420438
M33972	phylum	k__Bacteria.p__Thermi	0.20401279
M33972	phylum	k__Bacteria.p__Verrucomicrobia	-0.3578167
M33972	phylum	k__Bacteria.p__WPS.2	0.26547605
M33972	phylum	k__Bacteria.p__WS3	0.41298462

M33973	phylum	k__Bacteria.p__Tenericutes	-0.2701108
M33973	phylum	k__Bacteria.p__Verrucomicrobia	-0.3143345
M33973	phylum	k__Bacteria.p__WS3	-0.2117916
M33997	phylum	k__Bacteria.p__Acidobacteria	0.09025558
M33997	phylum	k__Bacteria.p__Caldithrix	-0.0951213
M33997	phylum	k__Bacteria.p__Chlamydiae	-0.0846386
M33997	phylum	k__Bacteria.p__Elusimicrobia	-0.0872114
M33997	phylum	k__Bacteria.p__GN02	0.08317866
M33997	phylum	k__Bacteria.p__TM7	-0.1134783
M33997	phylum	k__Bacteria.p__Thermi	-0.1143419
M33997	phylum	k__Bacteria.p__WPS.2	-0.1038839
M33997	phylum	k__Bacteria.p__WS3	-0.1076954
M34093	phylum	k__Bacteria.p__Fusobacteria	0.105331
M34381	phylum	k__Bacteria.p__Lentisphaerae	-0.14406
M34381	phylum	k__Bacteria.p__Tenericutes	-0.1584108
M34384	phylum	k__Archaea.p__Euryarchaeota	-0.0962477
M34384	phylum	k__Bacteria.p__Actinobacteria	-0.138601
M34384	phylum	k__Bacteria.p__Cyanobacteria	0.11810676
M34384	phylum	k__Bacteria.p__Lentisphaerae	-0.0949975
M34384	phylum	k__Bacteria.p__Synergistetes	-0.1055855
M34384	phylum	k__Bacteria.p__Tenericutes	-0.1415185
M34384	phylum	k__Bacteria.p__Verrucomicrobia	-0.2153264
M34387	phylum	k__Bacteria.p__Acidobacteria	0.08817147
M34387	phylum	k__Bacteria.p__Cyanobacteria	0.08043428
M34389	phylum	k__Bacteria.p__Cyanobacteria	0.18852528
M34389	phylum	k__Bacteria.p__Lentisphaerae	-0.3450075
M34389	phylum	k__Bacteria.p__Synergistetes	-0.1965349
M34389	phylum	k__Bacteria.p__Tenericutes	-0.3524306
M34389	phylum	k__Bacteria.p__Verrucomicrobia	-0.2954414
M34390	phylum	k__Bacteria.p__Bacteroidetes	-0.2156809
M34390	phylum	k__Bacteria.p__Lentisphaerae	-0.1990265
M34390	phylum	k__Bacteria.p__Tenericutes	-0.2327846
M34390	phylum	k__Bacteria.p__Verrucomicrobia	-0.2564131
M34391	phylum	k__Bacteria.p__Cyanobacteria	-0.2171682
M34391	phylum	k__Bacteria.p__Thermi	-0.2333118
M34395	phylum	k__Bacteria.p__Acidobacteria	-0.2618009
M34395	phylum	k__Bacteria.p__Elusimicrobia	0.23624456
M34395	phylum	k__Bacteria.p__Lentisphaerae	-0.232154
M34395	phylum	k__Bacteria.p__TM7	0.25962138
M34395	phylum	k__Bacteria.p__Thermi	0.26804465
M34396	phylum	k__Bacteria.p__Lentisphaerae	-0.1128363
M34398	phylum	k__Bacteria.p__Fusobacteria	0.09126673
M34398	phylum	k__Bacteria.p__Lentisphaerae	-0.1729714
M34398	phylum	k__Bacteria.p__Verrucomicrobia	-0.1427668
M34399	phylum	k__Bacteria.p__Lentisphaerae	-0.1251792
M34399	phylum	k__Bacteria.p__Tenericutes	-0.0986922
M34400	phylum	k__Archaea.p__Euryarchaeota	-0.1251146
M34400	phylum	k__Bacteria.p__Lentisphaerae	-0.1670047
M34400	phylum	k__Bacteria.p__Synergistetes	-0.1399995
M34400	phylum	k__Bacteria.p__Tenericutes	-0.1025482

M34401	phylum	k__Archaea.p__Euryarchaeota	-0.3541372
M34401	phylum	k__Bacteria.p__Actinobacteria	-0.3226625
M34401	phylum	k__Bacteria.p__Deferribacteres	-0.2208936
M34401	phylum	k__Bacteria.p__Lentisphaerae	-0.3162915
M34401	phylum	k__Bacteria.p__Synergistetes	-0.375844
M34404	phylum	k__Bacteria.p__Fusobacteria	-0.0956216
M34404	phylum	k__Bacteria.p__Lentisphaerae	0.1179596
M34404	phylum	k__Bacteria.p__TM6	0.08654305
M34404	phylum	k__Bacteria.p__Tenericutes	0.14315353
M34409	phylum	k__Bacteria.p__Acidobacteria	0.19424264
M34409	phylum	k__Bacteria.p__Caldithrix	-0.2153134
M34409	phylum	k__Bacteria.p__Deferribacteres	0.3337583
M34409	phylum	k__Bacteria.p__OD1	0.2015431
M34409	phylum	k__Bacteria.p__TM7	-0.3173415
M34409	phylum	k__Bacteria.p__Tenericutes	-0.3869708
M34409	phylum	k__Bacteria.p__Thermi	-0.1899816
M34409	phylum	k__Bacteria.p__Verrucomicrobia	-0.3349551
M34409	phylum	k__Bacteria.p__WPS.2	-0.2236997
M34409	phylum	k__Bacteria.p__WS3	-0.337078
M34419	phylum	k__Bacteria.p__Actinobacteria	-0.2698929
M34419	phylum	k__Bacteria.p__Chlorobi	-0.2514703
M34419	phylum	k__Bacteria.p__Synergistetes	-0.3093572
M34419	phylum	k__Bacteria.p__TM7	-0.4793559
M34419	phylum	k__Bacteria.p__Thermi	-0.2234869
M34419	phylum	k__Bacteria.p__Verrucomicrobia	-0.2255408
M34419	phylum	k__Bacteria.p__WS3	-0.4748148
M34424	phylum	k__Bacteria.p__Synergistetes	-0.0815239
M34437	phylum	k__Bacteria.p__Actinobacteria	-0.2647434
M34437	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2141913
M34437	phylum	k__Bacteria.p__Lentisphaerae	0.32506933
M34457	phylum	k__Bacteria.p__Actinobacteria	-0.0935247
M35101	phylum	k__Archaea.p__Euryarchaeota	-0.1488218
M35101	phylum	k__Bacteria.p__Lentisphaerae	-0.1236622
M35101	phylum	k__Bacteria.p__Synergistetes	-0.169437
M35101	phylum	k__Bacteria.p__Verrucomicrobia	-0.0859457
M35107	phylum	k__Bacteria.p__Verrucomicrobia	0.0838985
M35114	phylum	k__Archaea.p__Euryarchaeota	-0.0810201
M35114	phylum	k__Bacteria.p__Lentisphaerae	-0.1220833
M35114	phylum	k__Bacteria.p__Synergistetes	-0.0980794
M35114	phylum	k__Bacteria.p__Tenericutes	-0.1255649
M35114	phylum	k__Bacteria.p__Verrucomicrobia	-0.1782867
M35126	phylum	k__Bacteria.p__Lentisphaerae	-0.281165
M35136	phylum	k__Archaea.p__Euryarchaeota	-0.1045
M35136	phylum	k__Bacteria.p__Actinobacteria	-0.1170634
M35136	phylum	k__Bacteria.p__Chlamydiae	-0.0904693
M35136	phylum	k__Bacteria.p__Lentisphaerae	-0.1221979
M35136	phylum	k__Bacteria.p__Proteobacteria	-0.1092917
M35136	phylum	k__Bacteria.p__Synergistetes	-0.1176578
M35136	phylum	k__Bacteria.p__Verrucomicrobia	-0.136318
M35157	phylum	k__Bacteria.p__Actinobacteria	-0.3933547

M35157	phylum	k__Bacteria.p__Synergistetes	-0.1845469
M35157	phylum	k__Bacteria.p__Verrucomicrobia	-0.2579228
M35160	phylum	k__Archaea.p__Crenarchaeota	0.20983682
M35160	phylum	k__Bacteria.p__Chlorobi	-0.2045023
M35160	phylum	k__Bacteria.p__Deferribacteres	0.33327022
M35160	phylum	k__Bacteria.p__Fibrobacteres	-0.2070233
M35160	phylum	k__Bacteria.p__Fusobacteria	0.27000378
M35160	phylum	k__Bacteria.p__Gemmatimonadetes	0.24042695
M35160	phylum	k__Bacteria.p__Nitrospirae	0.18150088
M35160	phylum	k__Bacteria.p__OD1	0.32914977
M35160	phylum	k__Bacteria.p__Planctomycetes	0.19624802
M35160	phylum	k__Bacteria.p__TM6	-0.2190211
M35160	phylum	k__Bacteria.p__Tenericutes	-0.3273799
M35160	phylum	k__Bacteria.p__WS3	-0.1844697
M35305	phylum	k__Bacteria.p__Verrucomicrobia	-0.3700521
M35437	phylum	k__Bacteria.p__Cyanobacteria	0.2143764
M35469	phylum	k__Bacteria.p__Actinobacteria	-0.0902205
M35482	phylum	k__Bacteria.p__Acidobacteria	0.21456532
M35482	phylum	k__Bacteria.p__Cyanobacteria	0.22780144
M35482	phylum	k__Bacteria.p__Synergistetes	-0.3209228
M35482	phylum	k__Bacteria.p__Tenericutes	-0.3991756
M35482	phylum	k__Bacteria.p__Verrucomicrobia	-0.2917682
M35625	phylum	k__Bacteria.p__Actinobacteria	-0.2067594
M35625	phylum	k__Bacteria.p__Bacteroidetes	-0.1785304
M35625	phylum	k__Bacteria.p__Cyanobacteria	0.2540472
M35625	phylum	k__Bacteria.p__Verrucomicrobia	-0.3273731
M35628	phylum	k__Bacteria.p__Acidobacteria	0.30280593
M35628	phylum	k__Bacteria.p__Deferribacteres	0.47464789
M35628	phylum	k__Bacteria.p__OD1	0.36612618
M35628	phylum	k__Bacteria.p__Planctomycetes	0.21545882
M35628	phylum	k__Bacteria.p__TM7	-0.275118
M35628	phylum	k__Bacteria.p__Thermi	-0.2400562
M35628	phylum	k__Bacteria.p__Verrucomicrobia	-0.270783
M35628	phylum	k__Bacteria.p__WPS.2	-0.255908
M35628	phylum	k__Bacteria.p__WS3	-0.2312677
M35630	phylum	k__Bacteria.p__Verrucomicrobia	-0.1712464
M35631	phylum	k__Bacteria.p__Actinobacteria	-0.0776408
M35631	phylum	k__Bacteria.p__Firmicutes	-0.1525754
M35631	phylum	k__Bacteria.p__Proteobacteria	0.11985568
M35631	phylum	k__Bacteria.p__Tenericutes	-0.1010184
M35632	phylum	k__Bacteria.p__Chlorobi	-0.2352262
M35632	phylum	k__Bacteria.p__Verrucomicrobia	-0.2503354
M35634	phylum	k__Archaea.p__Euryarchaeota	-0.2319943
M35634	phylum	k__Bacteria.p__Actinobacteria	-0.2719201
M35634	phylum	k__Bacteria.p__Synergistetes	-0.1782147
M35634	phylum	k__Bacteria.p__Verrucomicrobia	-0.2648758
M35635	phylum	k__Bacteria.p__Fusobacteria	0.09373148
M35635	phylum	k__Bacteria.p__Tenericutes	-0.1245587
M35635	phylum	k__Bacteria.p__Verrucomicrobia	-0.1715438
M35635	phylum	k__Bacteria.p__WPS.2	0.08722075

M35637	phylum	k__Bacteria.p__Synergistetes	-0.2678296
M35637	phylum	k__Bacteria.p__Verrucomicrobia	-0.3004976
M35639	phylum	k__Bacteria.p__Synergistetes	-0.2512284
M35651	phylum	k__Bacteria.p__Armatimonadetes	-0.0864686
M35651	phylum	k__Bacteria.p__Chlamydiae	-0.09005
M35651	phylum	k__Bacteria.p__FBP	-0.0929081
M35651	phylum	k__Bacteria.p__GN02	0.09397476
M35651	phylum	k__Bacteria.p__Lentisphaerae	-0.1673149
M35651	phylum	k__Bacteria.p__Proteobacteria	-0.110803
M35651	phylum	k__Bacteria.p__Synergistetes	-0.1776187
M35651	phylum	k__Bacteria.p__TM6	0.09356129
M35651	phylum	k__Bacteria.p__Thermi	-0.1242717
M35651	phylum	k__Bacteria.p__WPS.2	-0.0864565
M35665	phylum	k__Archaea.p__Crenarchaeota	0.23908925
M35665	phylum	k__Archaea.p__Euryarchaeota	0.18417084
M35665	phylum	k__Bacteria.p__Chlorobi	-0.2116693
M35665	phylum	k__Bacteria.p__Deferribacteres	0.27463398
M35665	phylum	k__Bacteria.p__Fusobacteria	0.1917518
M35665	phylum	k__Bacteria.p__Gemmatimonadetes	0.17964837
M35665	phylum	k__Bacteria.p__OD1	0.30913482
M35665	phylum	k__Bacteria.p__Planctomycetes	0.20838734
M35665	phylum	k__Bacteria.p__Proteobacteria	0.19561444
M35669	phylum	k__Bacteria.p__Cyanobacteria	0.24051161
M35675	phylum	k__Archaea.p__Crenarchaeota	0.08271747
M35675	phylum	k__Bacteria.p__Chlorobi	-0.0928884
M35675	phylum	k__Bacteria.p__Deferribacteres	0.08969957
M35675	phylum	k__Bacteria.p__Firmicutes	0.09783812
M35675	phylum	k__Bacteria.p__Spirochaetes	0.10717401
M35678	phylum	k__Bacteria.p__Verrucomicrobia	-0.0940634
M35718	phylum	k__Bacteria.p__Tenericutes	-0.2709813
M35718	phylum	k__Bacteria.p__Verrucomicrobia	-0.2253548
M35879	phylum	k__Bacteria.p__Fusobacteria	0.10744541
M36103	phylum	k__Archaea.p__Euryarchaeota	-0.0923731
M36103	phylum	k__Bacteria.p__Actinobacteria	-0.1032975
M36103	phylum	k__Bacteria.p__Chlorobi	0.10361421
M36103	phylum	k__Bacteria.p__Fibrobacteres	0.10472807
M36103	phylum	k__Bacteria.p__Lentisphaerae	-0.1573918
M36103	phylum	k__Bacteria.p__Synergistetes	-0.1246933
M36103	phylum	k__Bacteria.p__Tenericutes	-0.1396692
M36103	phylum	k__Bacteria.p__Verrucomicrobia	-0.1508049
M36600	phylum	k__Bacteria.p__Deferribacteres	0.32412457
M36600	phylum	k__Bacteria.p__OD1	0.24369562
M36600	phylum	k__Bacteria.p__TM7	-0.2771107
M36600	phylum	k__Bacteria.p__Verrucomicrobia	-0.2185095
M36600	phylum	k__Bacteria.p__WS3	-0.2653172
M36649	phylum	k__Bacteria.p__Bacteroidetes	0.17975535
M36649	phylum	k__Bacteria.p__Elusimicrobia	0.23525028
M36649	phylum	k__Bacteria.p__Gemmatimonadetes	0.16428197
M36649	phylum	k__Bacteria.p__Lentisphaerae	0.18172767
M36649	phylum	k__Bacteria.p__Planctomycetes	0.20847028

M36659	phylum	k__Archaea.p__Euryarchaeota	-0.0896965
M36659	phylum	k__Bacteria.p__Firmicutes	0.08776756
M36659	phylum	k__Bacteria.p__Lentisphaerae	-0.1782709
M36659	phylum	k__Bacteria.p__Proteobacteria	-0.0873807
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M36659	phylum	k__Bacteria.p__Verrucomicrobia	-0.1178729
M36713	phylum	k__Bacteria.p__Fusobacteria	0.1381768
M36713	phylum	k__Bacteria.p__Synergistetes	-0.1036439
M36713	phylum	k__Bacteria.p__Tenericutes	-0.118942
M36713	phylum	k__Bacteria.p__Verrucomicrobia	-0.2143757
M36738	phylum	k__Archaea.p__Crenarchaeota	0.08527031
M36738	phylum	k__Bacteria.p__Bacteroidetes	0.09966098
M36738	phylum	k__Bacteria.p__Fusobacteria	-0.0827231
M36747	phylum	k__Bacteria.p__Acidobacteria	-0.0900094
M36747	phylum	k__Bacteria.p__Chloroflexi	-0.0941224
M36747	phylum	k__Bacteria.p__SR1	0.11966245
M36749	phylum	k__Bacteria.p__Fusobacteria	-0.11201
M36749	phylum	k__Bacteria.p__Lentisphaerae	0.09393037
M36749	phylum	k__Bacteria.p__Tenericutes	0.2242783
M36749	phylum	k__Bacteria.p__Verrucomicrobia	0.18106565
M36751	phylum	k__Bacteria.p__Acidobacteria	0.08416834
M36751	phylum	k__Bacteria.p__Bacteroidetes	0.13091099
M36751	phylum	k__Bacteria.p__Lentisphaerae	-0.1218451
M36751	phylum	k__Bacteria.p__Proteobacteria	-0.0824117
M36751	phylum	k__Bacteria.p__Synergistetes	-0.1272632
M36751	phylum	k__Bacteria.p__Tenericutes	-0.095576
M36752	phylum	k__Bacteria.p__Lentisphaerae	-0.1418026
M36752	phylum	k__Bacteria.p__Synergistetes	-0.1175342
M36752	phylum	k__Bacteria.p__Tenericutes	-0.1192829
M36752	phylum	k__Bacteria.p__Verrucomicrobia	-0.1030405
M36754	phylum	k__Bacteria.p__Bacteroidetes	-0.1029094
M36754	phylum	k__Bacteria.p__Caldithrix	-0.0978862
M36754	phylum	k__Bacteria.p__Cyanobacteria	-0.0816063
M36770	phylum	k__Bacteria.p__Actinobacteria	0.08688246
M36808	phylum	k__Bacteria.p__Fusobacteria	0.08190966
M36808	phylum	k__Bacteria.p__Tenericutes	-0.0989295
M36808	phylum	k__Bacteria.p__Verrucomicrobia	-0.1664513
M36850	phylum	k__Bacteria.p__Actinobacteria	-0.1954204
M37063	phylum	k__Bacteria.p__Actinobacteria	-0.1301161
M37063	phylum	k__Bacteria.p__Proteobacteria	-0.0774138
M37069	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0763659
M37069	phylum	k__Bacteria.p__Lentisphaerae	-0.1341
M37069	phylum	k__Bacteria.p__OD1	-0.0875062
M37069	phylum	k__Bacteria.p__Synergistetes	-0.0911563
M37069	phylum	k__Bacteria.p__Tenericutes	-0.1537351
M37069	phylum	k__Bacteria.p__Verrucomicrobia	-0.1527623
M37070	phylum	k__Bacteria.p__Firmicutes	0.10925529
M37070	phylum	k__Bacteria.p__WPS.2	0.08700562
M37076	phylum	k__Bacteria.p__Actinobacteria	-0.0849698
M37076	phylum	k__Bacteria.p__Armatimonadetes	-0.0756267

M37076	phylum	k__Bacteria.p__Chlamydiae	-0.090915
M37076	phylum	k__Bacteria.p__Chloroflexi	-0.0806649
M37076	phylum	k__Bacteria.p__GN02	0.07669974
M37076	phylum	k__Bacteria.p__Thermi	-0.0846848
M37093	phylum	k__Bacteria.p__Verrucomicrobia	-0.1068278
M37139	phylum	k__Bacteria.p__Actinobacteria	-0.3929122
M37139	phylum	k__Bacteria.p__Chlamydiae	-0.2264714
M37139	phylum	k__Bacteria.p__Cyanobacteria	-0.2339509
M37139	phylum	k__Bacteria.p__Thermi	-0.2823317
M37139	phylum	k__Bacteria.p__WPS.2	-0.3172251
M37188	phylum	k__Archaea.p__Euryarchaeota	-0.2424211
M37188	phylum	k__Bacteria.p__Lentisphaerae	-0.2641631
M37188	phylum	k__Bacteria.p__Synergistetes	-0.1836628
M37191	phylum	k__Archaea.p__Euryarchaeota	-0.2615061
M37191	phylum	k__Bacteria.p__Chlamydiae	-0.1914767
M37191	phylum	k__Bacteria.p__Firmicutes	-0.2049617
M37191	phylum	k__Bacteria.p__Tenericutes	0.25892851
M37191	phylum	k__Bacteria.p__Thermi	-0.2279753
M37191	phylum	k__Bacteria.p__Verrucomicrobia	0.20481333
M37191	phylum	k__Bacteria.p__WPS.2	-0.2184587
M37191	phylum	k__Bacteria.p__WS3	-0.1958828
M37196	phylum	k__Bacteria.p__Fusobacteria	0.27797837
M37196	phylum	k__Bacteria.p__Tenericutes	-0.5351869
M37196	phylum	k__Bacteria.p__Verrucomicrobia	-0.4385849
M37199	phylum	k__Bacteria.p__Tenericutes	0.2247285
M37202	phylum	k__Bacteria.p__Actinobacteria	0.23254936
M37202	phylum	k__Bacteria.p__Elusimicrobia	0.24820981
M37202	phylum	k__Bacteria.p__Lentisphaerae	-0.3970037
M37202	phylum	k__Bacteria.p__Tenericutes	-0.6474476
M37202	phylum	k__Bacteria.p__Verrucomicrobia	-0.4403675
M37203	phylum	k__Archaea.p__Euryarchaeota	-0.1916098
M37203	phylum	k__Bacteria.p__Actinobacteria	0.24803302
M37203	phylum	k__Bacteria.p__Elusimicrobia	0.18134177
M37203	phylum	k__Bacteria.p__Fusobacteria	0.1935554
M37203	phylum	k__Bacteria.p__Lentisphaerae	-0.3604276
M37203	phylum	k__Bacteria.p__Tenericutes	-0.5976803
M37203	phylum	k__Bacteria.p__Verrucomicrobia	-0.4231849
M37207	phylum	k__Archaea.p__Euryarchaeota	-0.1892612
M37207	phylum	k__Bacteria.p__Elusimicrobia	-0.1834047
M37207	phylum	k__Bacteria.p__Fusobacteria	-0.1675624
M37207	phylum	k__Bacteria.p__Lentisphaerae	-0.3391421
M37207	phylum	k__Bacteria.p__TM7	-0.198227
M37207	phylum	k__Bacteria.p__WS3	-0.2373727
M37211	phylum	k__Archaea.p__Euryarchaeota	-0.3737012
M37211	phylum	k__Bacteria.p__Tenericutes	-0.8440765
M37211	phylum	k__Bacteria.p__Verrucomicrobia	-0.5242478
M37431	phylum	k__Archaea.p__Euryarchaeota	-0.1313922
M37431	phylum	k__Bacteria.p__Bacteroidetes	0.08177374
M37431	phylum	k__Bacteria.p__Lentisphaerae	-0.1277814
M37431	phylum	k__Bacteria.p__Synergistetes	-0.1106367

M37431	phylum	k__Bacteria.p__Tenericutes	-0.1826942
M37431	phylum	k__Bacteria.p__Verrucomicrobia	-0.0897096
M37432	phylum	k__Bacteria.p__Fusobacteria	0.19369081
M37432	phylum	k__Bacteria.p__Verrucomicrobia	-0.2661895
M37443	phylum	k__Bacteria.p__Actinobacteria	-0.081427
M37443	phylum	k__Bacteria.p__Thermi	-0.0864289
M37455	phylum	k__Archaea.p__Euryarchaeota	0.10994945
M37455	phylum	k__Bacteria.p__Firmicutes	-0.1167982
M37455	phylum	k__Bacteria.p__Lentisphaerae	0.10020744
M37455	phylum	k__Bacteria.p__Proteobacteria	0.11781484
M37456	phylum	k__Bacteria.p__Deferribacteres	-0.2108181
M37456	phylum	k__Bacteria.p__Proteobacteria	-0.1753837
M37456	phylum	k__Bacteria.p__TM7	0.20842837
M37456	phylum	k__Bacteria.p__WS3	0.21545111
M37458	phylum	k__Bacteria.p__Fusobacteria	0.11427005
M37458	phylum	k__Bacteria.p__Lentisphaerae	-0.0893974
M37458	phylum	k__Bacteria.p__Synergistetes	-0.1063817
M37458	phylum	k__Bacteria.p__Tenericutes	-0.1857193
M37458	phylum	k__Bacteria.p__Verrucomicrobia	-0.1298551
M37465	phylum	k__Archaea.p__Euryarchaeota	-0.2079504
M37465	phylum	k__Bacteria.p__Acidobacteria	0.20090093
M37465	phylum	k__Bacteria.p__Fusobacteria	0.18018731
M37465	phylum	k__Bacteria.p__Thermi	-0.2148417
M37465	phylum	k__Bacteria.p__Verrucomicrobia	-0.2131712
M37465	phylum	k__Bacteria.p__WPS.2	-0.2255677
M37496	phylum	k__Bacteria.p__Cyanobacteria	0.08036464
M37496	phylum	k__Bacteria.p__Fusobacteria	0.16084913
M37496	phylum	k__Bacteria.p__Proteobacteria	0.12607279
M37496	phylum	k__Bacteria.p__Tenericutes	-0.1283374
M37496	phylum	k__Bacteria.p__Verrucomicrobia	-0.1922466
M37501	phylum	k__Bacteria.p__Verrucomicrobia	0.08577792
M37502	phylum	k__Bacteria.p__Bacteroidetes	-0.0810226
M37502	phylum	k__Bacteria.p__Caldithrix	-0.0846895
M37502	phylum	k__Bacteria.p__GN02	0.08001319
M37502	phylum	k__Bacteria.p__Verrucomicrobia	0.08981516
M37506	phylum	k__Bacteria.p__Fusobacteria	0.10234781
M37506	phylum	k__Bacteria.p__Lentisphaerae	0.10575501
M37506	phylum	k__Bacteria.p__Proteobacteria	0.09859283
M37508	phylum	k__Bacteria.p__Chlorobi	0.30163668
M37508	phylum	k__Bacteria.p__Lentisphaerae	0.21911622
M37508	phylum	k__Bacteria.p__TM6	0.26369652
M37508	phylum	k__Bacteria.p__TM7	0.272047
M37508	phylum	k__Bacteria.p__WS3	0.3376991
M37752	phylum	k__Bacteria.p__Bacteroidetes	-0.0990486
M37752	phylum	k__Bacteria.p__Synergistetes	-0.0950452
M37752	phylum	k__Bacteria.p__Verrucomicrobia	-0.1589804
M38102	phylum	k__Bacteria.p__Firmicutes	0.12424672
M38102	phylum	k__Bacteria.p__Fusobacteria	0.13891147
M38102	phylum	k__Bacteria.p__Tenericutes	-0.139089
M38102	phylum	k__Bacteria.p__Verrucomicrobia	-0.166476

M38105	phylum	k__Bacteria.p__Bacteroidetes	-0.2266372
M38105	phylum	k__Bacteria.p__Cyanobacteria	0.19255949
M38105	phylum	k__Bacteria.p__Lentisphaerae	-0.1975219
M38109	phylum	k__Bacteria.p__Actinobacteria	-0.0943057
M38109	phylum	k__Bacteria.p__Planctomycetes	0.07768271
M38116	phylum	k__Bacteria.p__Thermi	-0.0989328
M38116	phylum	k__Bacteria.p__WPS.2	-0.0919223
M38116	phylum	k__Bacteria.p__WS3	-0.1072074
M38125	phylum	k__Bacteria.p__Thermi	-0.1009159
M38125	phylum	k__Bacteria.p__WPS.2	-0.1012287
M38127	phylum	k__Bacteria.p__Tenericutes	0.26650196
M38127	phylum	k__Bacteria.p__Thermi	0.17363596
M38165	phylum	k__Bacteria.p__Firmicutes	0.09899133
M38165	phylum	k__Bacteria.p__Fusobacteria	0.14461675
M38165	phylum	k__Bacteria.p__Proteobacteria	0.09685793
M38165	phylum	k__Bacteria.p__Verrucomicrobia	-0.1397026
M38167	phylum	k__Archaea.p__Euryarchaeota	-0.2544145
M38167	phylum	k__Bacteria.p__Lentisphaerae	-0.3399792
M38167	phylum	k__Bacteria.p__Synergistetes	-0.2631337
M38167	phylum	k__Bacteria.p__Tenericutes	-0.5739875
M38167	phylum	k__Bacteria.p__Verrucomicrobia	-0.2683132
M38183	phylum	k__Bacteria.p__Firmicutes	-0.1517924
M38271	phylum	k__Bacteria.p__Acidobacteria	-0.0880612
M38271	phylum	k__Bacteria.p__Actinobacteria	-0.1100451
M38271	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0966585
M38271	phylum	k__Bacteria.p__Planctomycetes	-0.0899954
M38271	phylum	k__Bacteria.p__Verrucomicrobia	-0.1387286
M38273	phylum	k__Bacteria.p__Fusobacteria	0.14885717
M38273	phylum	k__Bacteria.p__Tenericutes	-0.1435904
M38273	phylum	k__Bacteria.p__Verrucomicrobia	-0.1786617
M38276	phylum	k__Archaea.p__Crenarchaeota	-0.0935256
M38276	phylum	k__Bacteria.p__Caldithrix	-0.0987751
M38276	phylum	k__Bacteria.p__Chlorobi	0.12425367
M38276	phylum	k__Bacteria.p__Chloroflexi	-0.1236644
M38276	phylum	k__Bacteria.p__FBP	-0.086347
M38276	phylum	k__Bacteria.p__Fibrobacteres	0.13596195
M38276	phylum	k__Bacteria.p__SR1	0.09835939
M38276	phylum	k__Bacteria.p__Spirochaetes	-0.0928657
M38288	phylum	k__Bacteria.p__Actinobacteria	-0.2011356
M38293	phylum	k__Bacteria.p__Lentisphaerae	0.09686132
M38293	phylum	k__Bacteria.p__Verrucomicrobia	0.11803443
M38296	phylum	k__Bacteria.p__Actinobacteria	-0.0853499
M38296	phylum	k__Bacteria.p__Bacteroidetes	-0.0833688
M38296	phylum	k__Bacteria.p__Fusobacteria	0.0878113
M38296	phylum	k__Bacteria.p__Lentisphaerae	0.13812784
M38313	phylum	k__Archaea.p__Crenarchaeota	-0.203207
M38313	phylum	k__Bacteria.p__Actinobacteria	-0.212655
M38313	phylum	k__Bacteria.p__Armatimonadetes	-0.1974718
M38313	phylum	k__Bacteria.p__Chlorobi	0.30020759
M38313	phylum	k__Bacteria.p__Deferribacteres	-0.2120996

M38313	phylum	k__Bacteria.p__FBP	-0.1986651
M38313	phylum	k__Bacteria.p__Fibrobacteres	0.24244919
M38313	phylum	k__Bacteria.p__GN02	0.19760193
M38313	phylum	k__Bacteria.p__Gemmatimonadetes	-0.1678032
M38313	phylum	k__Bacteria.p__Nitrospirae	-0.2450393
M38313	phylum	k__Bacteria.p__OD1	-0.2160332
M38313	phylum	k__Bacteria.p__Planctomycetes	-0.1689326
M38313	phylum	k__Bacteria.p__Spirochaetes	-0.1980465
M38313	phylum	k__Bacteria.p__Synergistetes	-0.1830177
M38313	phylum	k__Bacteria.p__TM6	0.36688236
M38313	phylum	k__Bacteria.p__TM7	0.23171474
M38313	phylum	k__Bacteria.p__WS3	0.3018089
M38395	phylum	k__Archaea.p__Euryarchaeota	-0.1659935
M38395	phylum	k__Bacteria.p__Cyanobacteria	0.07855076
M38395	phylum	k__Bacteria.p__Elusimicrobia	-0.1004671
M38395	phylum	k__Bacteria.p__Lentisphaerae	-0.1430019
M38395	phylum	k__Bacteria.p__Synergistetes	-0.1308825
M38395	phylum	k__Bacteria.p__Tenericutes	-0.1785828
M38395	phylum	k__Bacteria.p__Verrucomicrobia	-0.2151555
M38395	phylum	k__Bacteria.p__WS3	-0.0848302
M38399	phylum	k__Archaea.p__Euryarchaeota	-0.2218565
M38399	phylum	k__Bacteria.p__Bacteroidetes	-0.1030509
M38399	phylum	k__Bacteria.p__Lentisphaerae	-0.1217123
M38399	phylum	k__Bacteria.p__OD1	-0.0877483
M38399	phylum	k__Bacteria.p__Proteobacteria	-0.0789838
M38399	phylum	k__Bacteria.p__Synergistetes	-0.1947998
M38399	phylum	k__Bacteria.p__Tenericutes	-0.1972981
M38399	phylum	k__Bacteria.p__Verrucomicrobia	-0.1802152
M38625	phylum	k__Bacteria.p__Fusobacteria	0.11835248
M38625	phylum	k__Bacteria.p__Tenericutes	-0.1762502
M38625	phylum	k__Bacteria.p__Verrucomicrobia	-0.1572475
M38654	phylum	k__Bacteria.p__Spirochaetes	0.31129925
M38672	phylum	k__Bacteria.p__Firmicutes	0.10870601
M38672	phylum	k__Bacteria.p__Verrucomicrobia	-0.1070175
M38672	phylum	k__Bacteria.p__WS3	0.09551412
M38696	phylum	k__Bacteria.p__Firmicutes	-0.0928958
M38749	phylum	k__Bacteria.p__Actinobacteria	-0.155751
M38749	phylum	k__Bacteria.p__Synergistetes	0.08691492
M38768	phylum	k__Bacteria.p__Bacteroidetes	-0.0901484
M38768	phylum	k__Bacteria.p__Chloroflexi	-0.0811086
M38768	phylum	k__Bacteria.p__Lentisphaerae	0.12942888
M38768	phylum	k__Bacteria.p__Synergistetes	0.09209686
M38768	phylum	k__Bacteria.p__Tenericutes	0.10212618
M38768	phylum	k__Bacteria.p__Verrucomicrobia	0.13416673
M39270	phylum	k__Bacteria.p__Armatimonadetes	-0.2114849
M39270	phylum	k__Bacteria.p__Caldithrix	-0.2177621
M39270	phylum	k__Bacteria.p__Chlamydiae	-0.2930021
M39270	phylum	k__Bacteria.p__Firmicutes	-0.299946
M39270	phylum	k__Bacteria.p__GN02	0.22768434
M39270	phylum	k__Bacteria.p__TM7	-0.4139583

M39270	phylum	k__Bacteria.p__Thermi	-0.3101797
M39270	phylum	k__Bacteria.p__WPS.2	-0.2446566
M39270	phylum	k__Bacteria.p__WS3	-0.3402747
M39271	phylum	k__Bacteria.p__Chloroflexi	-0.1136982
M39271	phylum	k__Bacteria.p__Firmicutes	-0.106401
M39271	phylum	k__Bacteria.p__Proteobacteria	0.08446627
M39271	phylum	k__Bacteria.p__SR1	0.10579775
M39271	phylum	k__Bacteria.p__Tenericutes	-0.119527
M39379	phylum	k__Bacteria.p__Cyanobacteria	-0.2055049
M39583	phylum	k__Bacteria.p__Cyanobacteria	0.07898016
M39583	phylum	k__Bacteria.p__Fusobacteria	0.10170383
M39583	phylum	k__Bacteria.p__Synergistetes	-0.1047553
M39583	phylum	k__Bacteria.p__Tenericutes	-0.1530801
M39583	phylum	k__Bacteria.p__Verrucomicrobia	-0.1606717
M39587	phylum	k__Bacteria.p__Bacteroidetes	-0.0801158
M39587	phylum	k__Bacteria.p__Firmicutes	0.09614915
M39587	phylum	k__Bacteria.p__Verrucomicrobia	-0.1216265
M39587	phylum	k__Bacteria.p__WPS.2	0.08772603
M39592	phylum	k__Bacteria.p__Fusobacteria	0.22671875
M39592	phylum	k__Bacteria.p__Lentisphaerae	-0.3053702
M39592	phylum	k__Bacteria.p__Synergistetes	-0.2653348
M39592	phylum	k__Bacteria.p__Verrucomicrobia	-0.2421282
M39598	phylum	k__Bacteria.p__Firmicutes	0.19917518
M39598	phylum	k__Bacteria.p__Lentisphaerae	-0.2307561
M39598	phylum	k__Bacteria.p__Tenericutes	-0.2425212
M39626	phylum	k__Bacteria.p__Proteobacteria	-0.1212046
M39630	phylum	k__Bacteria.p__Bacteroidetes	-0.2755626
M39630	phylum	k__Bacteria.p__Elusimicrobia	-0.1657582
M39630	phylum	k__Bacteria.p__Lentisphaerae	-0.2560714
M39630	phylum	k__Bacteria.p__SR1	0.2277758
M39630	phylum	k__Bacteria.p__TM7	-0.2152333
M39630	phylum	k__Bacteria.p__WS3	-0.1879918
M39777	phylum	k__Bacteria.p__Deferribacteres	-0.2867364
M39788	phylum	k__Archaea.p__Euryarchaeota	-0.121508
M39788	phylum	k__Bacteria.p__Tenericutes	-0.1184068
M39788	phylum	k__Bacteria.p__WPS.2	-0.0802209
M39994	phylum	k__Bacteria.p__Firmicutes	0.092346
M39994	phylum	k__Bacteria.p__Fusobacteria	0.08280876
M39994	phylum	k__Bacteria.p__Lentisphaerae	-0.1276466
M39994	phylum	k__Bacteria.p__Verrucomicrobia	-0.0963967
M40006	phylum	k__Bacteria.p__Fusobacteria	0.24943674
M40007	phylum	k__Bacteria.p__WPS.2	0.08875539
M40008	phylum	k__Bacteria.p__Actinobacteria	-0.1318305
M40008	phylum	k__Bacteria.p__Lentisphaerae	-0.1221841
M40010	phylum	k__Bacteria.p__Verrucomicrobia	-0.0983674
M40020	phylum	k__Bacteria.p__Synergistetes	0.21392367
M40040	phylum	k__Bacteria.p__Actinobacteria	0.20408764
M40040	phylum	k__Bacteria.p__Cyanobacteria	0.17468596
M40040	phylum	k__Bacteria.p__Deferribacteres	0.24010097
M40040	phylum	k__Bacteria.p__Firmicutes	0.2503936

M40040	phylum	k__Bacteria.p__OD1	0.24535437
M40040	phylum	k__Bacteria.p__Tenericutes	-0.2100927
M40045	phylum	k__Bacteria.p__Actinobacteria	-0.103926
M40045	phylum	k__Bacteria.p__Fusobacteria	0.08871713
M40045	phylum	k__Bacteria.p__Verrucomicrobia	-0.1152642
M40084	phylum	k__Archaea.p__Crenarchaeota	0.07628223
M40084	phylum	k__Bacteria.p__OD1	0.08290043
M40084	phylum	k__Bacteria.p__Tenericutes	-0.0941877
M40084	phylum	k__Bacteria.p__Verrucomicrobia	-0.0855868
M40097	phylum	k__Bacteria.p__Fusobacteria	0.11812299
M40097	phylum	k__Bacteria.p__Verrucomicrobia	-0.0991881
M40173	phylum	k__Bacteria.p__Chloroflexi	-0.0921558
M40173	phylum	k__Bacteria.p__Thermi	-0.0788146
M40406	phylum	k__Bacteria.p__Fusobacteria	0.10949817
M40406	phylum	k__Bacteria.p__Lentisphaerae	-0.0839622
M40406	phylum	k__Bacteria.p__Synergistetes	-0.125294
M40406	phylum	k__Bacteria.p__Tenericutes	-0.1086993
M40406	phylum	k__Bacteria.p__Verrucomicrobia	-0.1208217
M40410	phylum	k__Bacteria.p__Caldithrix	-0.0939297
M40410	phylum	k__Bacteria.p__Lentisphaerae	-0.1669737
M40410	phylum	k__Bacteria.p__Spirochaetes	-0.0911301
M40410	phylum	k__Bacteria.p__Synergistetes	-0.1090812
M40410	phylum	k__Bacteria.p__Tenericutes	-0.1130396
M40410	phylum	k__Bacteria.p__Verrucomicrobia	-0.1645459
M40452	phylum	k__Bacteria.p__Fusobacteria	-0.1378987
M40464	phylum	k__Archaea.p__Euryarchaeota	0.21192511
M40464	phylum	k__Bacteria.p__Fusobacteria	-0.2308026
M40464	phylum	k__Bacteria.p__Lentisphaerae	0.26488562
M40464	phylum	k__Bacteria.p__SR1	0.17816178
M40464	phylum	k__Bacteria.p__Synergistetes	0.21805745
M40464	phylum	k__Bacteria.p__Tenericutes	0.46337342
M40473	phylum	k__Archaea.p__Crenarchaeota	-0.258706
M40473	phylum	k__Bacteria.p__Acidobacteria	-0.3063015
M40473	phylum	k__Bacteria.p__Actinobacteria	-0.3078064
M40473	phylum	k__Bacteria.p__Chlorobi	0.31362248
M40473	phylum	k__Bacteria.p__Chloroflexi	-0.2325185
M40473	phylum	k__Bacteria.p__Deferribacteres	-0.5392432
M40473	phylum	k__Bacteria.p__Fibrobacteres	0.23994889
M40473	phylum	k__Bacteria.p__Firmicutes	-0.2608861
M40473	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2511527
M40473	phylum	k__Bacteria.p__OD1	-0.4088562
M40473	phylum	k__Bacteria.p__Planctomycetes	-0.2642952
M40473	phylum	k__Bacteria.p__Spirochaetes	-0.3198545
M40473	phylum	k__Bacteria.p__TM7	0.30914134
M40473	phylum	k__Bacteria.p__Verrucomicrobia	0.27561834
M40475	phylum	k__Bacteria.p__Actinobacteria	-0.1381048
M40475	phylum	k__Bacteria.p__Firmicutes	0.09861162
M40479	phylum	k__Archaea.p__Euryarchaeota	-0.1324313
M40479	phylum	k__Bacteria.p__Lentisphaerae	-0.1400681
M40479	phylum	k__Bacteria.p__Tenericutes	-0.1598344

M40479	phylum	k__Bacteria.p__Verrucomicrobia	-0.08757
M40481	phylum	k__Bacteria.p__Tenericutes	-0.1018032
M40481	phylum	k__Bacteria.p__Verrucomicrobia	-0.0985941
M40499	phylum	k__Bacteria.p__Bacteroidetes	0.17466837
M40499	phylum	k__Bacteria.p__Fusobacteria	0.19409701
M40506	phylum	k__Archaea.p__Euryarchaeota	-0.2456376
M40506	phylum	k__Bacteria.p__Lentisphaerae	-0.3291365
M40506	phylum	k__Bacteria.p__Synergistetes	-0.2170053
M40506	phylum	k__Bacteria.p__TM7	-0.2732013
M40506	phylum	k__Bacteria.p__Tenericutes	-0.2686247
M40506	phylum	k__Bacteria.p__WPS.2	-0.204672
M40506	phylum	k__Bacteria.p__WS3	-0.2705766
M40700	phylum	k__Bacteria.p__Firmicutes	0.1043226
M40700	phylum	k__Bacteria.p__Lentisphaerae	-0.0994623
M40703	phylum	k__Bacteria.p__Chloroflexi	-0.2220585
M40703	phylum	k__Bacteria.p__Fusobacteria	0.25955493
M40703	phylum	k__Bacteria.p__SR1	0.25150914
M40730	phylum	k__Bacteria.p__Lentisphaerae	-0.0860626
M40730	phylum	k__Bacteria.p__Tenericutes	-0.1100913
M40730	phylum	k__Bacteria.p__Verrucomicrobia	-0.0814231
M40732	phylum	k__Archaea.p__Crenarchaeota	-0.2019561
M40732	phylum	k__Bacteria.p__Acidobacteria	-0.3328645
M40732	phylum	k__Bacteria.p__Deferribacteres	-0.188307
M40732	phylum	k__Bacteria.p__Fibrobacteres	0.20828086
M40732	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2268703
M40732	phylum	k__Bacteria.p__Nitrospirae	-0.172339
M40732	phylum	k__Bacteria.p__OD1	-0.2213688
M40732	phylum	k__Bacteria.p__Planctomycetes	-0.1775632
M40732	phylum	k__Bacteria.p__Spirochaetes	-0.3043217
M40732	phylum	k__Bacteria.p__Thermi	0.23820793
M40732	phylum	k__Bacteria.p__WPS.2	0.25096828
M40732	phylum	k__Bacteria.p__WS3	0.20204023
M41370	phylum	k__Bacteria.p__Planctomycetes	0.0911447
M41370	phylum	k__Bacteria.p__Verrucomicrobia	-0.0828234
M41374	phylum	k__Bacteria.p__Actinobacteria	-0.1059683
M41515	phylum	k__Bacteria.p__Fusobacteria	0.09138957
M41515	phylum	k__Bacteria.p__Lentisphaerae	-0.15211
M41515	phylum	k__Bacteria.p__Synergistetes	-0.1346836
M41515	phylum	k__Bacteria.p__Tenericutes	-0.0976296
M41515	phylum	k__Bacteria.p__Verrucomicrobia	-0.1401483
M41888	phylum	k__Archaea.p__Euryarchaeota	0.08458536
M41888	phylum	k__Bacteria.p__Elusimicrobia	0.08807593
M42027	phylum	k__Archaea.p__Crenarchaeota	0.26959234
M42027	phylum	k__Bacteria.p__Bacteroidetes	0.22132873
M42027	phylum	k__Bacteria.p__Deferribacteres	0.26797562
M42027	phylum	k__Bacteria.p__Fibrobacteres	-0.2424132
M42027	phylum	k__Bacteria.p__Nitrospirae	0.1967607
M42027	phylum	k__Bacteria.p__OD1	0.22152663
M42081	phylum	k__Archaea.p__Euryarchaeota	-0.3365236
M42081	phylum	k__Bacteria.p__Actinobacteria	-0.4943783

M42081	phylum	k__Bacteria.p__Caldithrix	-0.2181917
M42081	phylum	k__Bacteria.p__Chlamydiae	-0.2500693
M42081	phylum	k__Bacteria.p__Lentisphaerae	-0.3391617
M42081	phylum	k__Bacteria.p__Proteobacteria	-0.194301
M42081	phylum	k__Bacteria.p__Synergistetes	-0.211231
M42081	phylum	k__Bacteria.p__TM7	-0.2759703
M42081	phylum	k__Bacteria.p__Thermi	-0.2962876
M42081	phylum	k__Bacteria.p__WPS.2	-0.2854922
M42081	phylum	k__Bacteria.p__WS3	-0.2925566
M42092	phylum	k__Bacteria.p__Verrucomicrobia	0.17148226
M42094	phylum	k__Bacteria.p__Spirochaetes	0.27124546
M42370	phylum	k__Bacteria.p__Tenericutes	-0.1378225
M42374	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0791994
M42395	phylum	k__Bacteria.p__Actinobacteria	-0.1131953
M42395	phylum	k__Bacteria.p__Fusobacteria	-0.1081595
M42395	phylum	k__Bacteria.p__Proteobacteria	-0.083149
M42398	phylum	k__Archaea.p__Euryarchaeota	0.0870174
M42398	phylum	k__Bacteria.p__Actinobacteria	-0.126276
M42398	phylum	k__Bacteria.p__Lentisphaerae	0.12398677
M42398	phylum	k__Bacteria.p__Proteobacteria	0.10472331
M42420	phylum	k__Archaea.p__Euryarchaeota	-0.0929412
M42420	phylum	k__Bacteria.p__Lentisphaerae	-0.1207581
M42420	phylum	k__Bacteria.p__Synergistetes	-0.1561487
M42420	phylum	k__Bacteria.p__TM7	-0.1142999
M42420	phylum	k__Bacteria.p__Verrucomicrobia	-0.132226
M42420	phylum	k__Bacteria.p__WS3	-0.1066109
M42449	phylum	k__Bacteria.p__Bacteroidetes	0.21701468
M42449	phylum	k__Bacteria.p__Firmicutes	-0.3459478
M42449	phylum	k__Bacteria.p__Lentisphaerae	0.36351186
M42449	phylum	k__Bacteria.p__SR1	0.28213038
M42449	phylum	k__Bacteria.p__TM7	-0.2592703
M42449	phylum	k__Bacteria.p__Thermi	-0.2963051
M42449	phylum	k__Bacteria.p__WPS.2	-0.2158009
M42449	phylum	k__Bacteria.p__WS3	-0.2614289
M42489	phylum	k__Archaea.p__Euryarchaeota	-0.1373947
M42489	phylum	k__Bacteria.p__Lentisphaerae	-0.1118573
M42489	phylum	k__Bacteria.p__Synergistetes	-0.1051094
M42489	phylum	k__Bacteria.p__Tenericutes	-0.1653404
M42489	phylum	k__Bacteria.p__Verrucomicrobia	-0.0972744
M42975	phylum	k__Bacteria.p__Tenericutes	0.23770075
M42978	phylum	k__Archaea.p__Euryarchaeota	0.12484982
M42978	phylum	k__Bacteria.p__Elusimicrobia	0.10001034
M42978	phylum	k__Bacteria.p__Lentisphaerae	0.0994122
M42978	phylum	k__Bacteria.p__Verrucomicrobia	0.17780702
M42989	phylum	k__Bacteria.p__Bacteroidetes	0.18590301
M42989	phylum	k__Bacteria.p__Chlamydiae	0.23066889
M42989	phylum	k__Bacteria.p__Deferribacteres	-0.2154775
M42989	phylum	k__Bacteria.p__Fusobacteria	0.22136792
M42989	phylum	k__Bacteria.p__TM7	0.24039553
M42989	phylum	k__Bacteria.p__Thermi	0.22509399

M42989	phylum	k__Bacteria.p__WS3	0.18197475
M42993	phylum	k__Bacteria.p__Lentisphaerae	-0.2400719
M42993	phylum	k__Bacteria.p__Synergistetes	-0.1719312
M42999	phylum	k__Archaea.p__Euryarchaeota	-0.3640289
M43023	phylum	k__Archaea.p__Euryarchaeota	-0.1772595
M43023	phylum	k__Bacteria.p__Lentisphaerae	-0.0916211
M43023	phylum	k__Bacteria.p__Synergistetes	-0.1336674
M43026	phylum	k__Bacteria.p__Bacteroidetes	-0.0970835
M43027	phylum	k__Bacteria.p__Actinobacteria	-0.1173689
M43027	phylum	k__Bacteria.p__Chlorobi	0.10229896
M43027	phylum	k__Bacteria.p__Deferribacteres	-0.0853303
M43027	phylum	k__Bacteria.p__Fibrobacteres	0.08865084
M43027	phylum	k__Bacteria.p__OD1	-0.0963954
M43027	phylum	k__Bacteria.p__Synergistetes	-0.084588
M43027	phylum	k__Bacteria.p__TM6	0.09132877
M43027	phylum	k__Bacteria.p__WPS.2	-0.0783503
M43028	phylum	k__Bacteria.p__Synergistetes	0.09365315
M43028	phylum	k__Bacteria.p__Verrucomicrobia	-0.1290809
M43231	phylum	k__Bacteria.p__Chlamydiae	-0.0930022
M43231	phylum	k__Bacteria.p__Lentisphaerae	-0.1025249
M43231	phylum	k__Bacteria.p__Proteobacteria	-0.1030024
M43231	phylum	k__Bacteria.p__Synergistetes	-0.0937106
M43231	phylum	k__Bacteria.p__Thermi	-0.1056769
M43249	phylum	k__Bacteria.p__Actinobacteria	-0.0945252
M43249	phylum	k__Bacteria.p__Fibrobacteres	0.08441007
M43249	phylum	k__Bacteria.p__Lentisphaerae	-0.1232973
M43249	phylum	k__Bacteria.p__Synergistetes	-0.155715
M43249	phylum	k__Bacteria.p__Tenericutes	-0.1146014
M43249	phylum	k__Bacteria.p__Verrucomicrobia	-0.1879944
M43255	phylum	k__Bacteria.p__Chloroflexi	-0.1701886
M43255	phylum	k__Bacteria.p__TM7	0.24185787
M43255	phylum	k__Bacteria.p__WS3	0.26142033
M43256	phylum	k__Archaea.p__Euryarchaeota	-0.1952893
M43256	phylum	k__Bacteria.p__Actinobacteria	-0.2227375
M43256	phylum	k__Bacteria.p__Armatimonadetes	-0.1963527
M43256	phylum	k__Bacteria.p__Caldithrix	-0.2076328
M43256	phylum	k__Bacteria.p__Chlorobi	0.27968176
M43256	phylum	k__Bacteria.p__FBP	-0.2128851
M43256	phylum	k__Bacteria.p__Fibrobacteres	0.29415484
M43256	phylum	k__Bacteria.p__GN02	0.20585379
M43256	phylum	k__Bacteria.p__Proteobacteria	-0.1812584
M43256	phylum	k__Bacteria.p__Synergistetes	-0.2280769
M43256	phylum	k__Bacteria.p__TM6	0.22414938
M43256	phylum	k__Bacteria.p__WPS.2	-0.2173114
M43258	phylum	k__Bacteria.p__Actinobacteria	-0.1062418
M43258	phylum	k__Bacteria.p__Cyanobacteria	0.10713563
M43258	phylum	k__Bacteria.p__Tenericutes	-0.113489
M43258	phylum	k__Bacteria.p__Thermi	-0.0965601
M43258	phylum	k__Bacteria.p__Verrucomicrobia	-0.1023759
M43374	phylum	k__Bacteria.p__Actinobacteria	-0.1071194

M43374	phylum	k__Bacteria.p__Firmicutes	-0.0981951
M43374	phylum	k__Bacteria.p__Fusobacteria	-0.0835222
M43374	phylum	k__Bacteria.p__Lentisphaerae	0.08404005
M43392	phylum	k__Bacteria.p__Firmicutes	0.23683401
M43392	phylum	k__Bacteria.p__SR1	-0.1941719
M43392	phylum	k__Bacteria.p__Spirochaetes	-0.2227771
M43392	phylum	k__Bacteria.p__TM6	0.21451101
M43392	phylum	k__Bacteria.p__TM7	0.30528933
M43392	phylum	k__Bacteria.p__Thermi	0.21291397
M43392	phylum	k__Bacteria.p__WS3	0.30408991
M43400	phylum	k__Bacteria.p__Fusobacteria	0.09597087
M43400	phylum	k__Bacteria.p__Lentisphaerae	-0.0960513
M43400	phylum	k__Bacteria.p__Synergistetes	-0.0857816
M43412	phylum	k__Bacteria.p__Synergistetes	-0.0854186
M43449	phylum	k__Archaea.p__Euryarchaeota	0.20446987
M43449	phylum	k__Bacteria.p__Lentisphaerae	0.14419686
M43449	phylum	k__Bacteria.p__Spirochaetes	-0.0912061
M43449	phylum	k__Bacteria.p__Synergistetes	0.20734
M43449	phylum	k__Bacteria.p__Tenericutes	0.12258285
M43449	phylum	k__Bacteria.p__Verrucomicrobia	0.15269662
M43493	phylum	k__Bacteria.p__Actinobacteria	-0.0924645
M43493	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0852914
M43493	phylum	k__Bacteria.p__Planctomycetes	-0.0889609
M43493	phylum	k__Bacteria.p__Proteobacteria	-0.0852585
M43496	phylum	k__Bacteria.p__Actinobacteria	-0.2942123
M43506	phylum	k__Bacteria.p__Lentisphaerae	-0.1493883
M43506	phylum	k__Bacteria.p__Synergistetes	-0.093008
M43507	phylum	k__Bacteria.p__Fusobacteria	0.12892746
M43507	phylum	k__Bacteria.p__Verrucomicrobia	0.08905994
M43530	phylum	k__Archaea.p__Euryarchaeota	-0.1175755
M43530	phylum	k__Bacteria.p__Lentisphaerae	-0.1597492
M43530	phylum	k__Bacteria.p__Synergistetes	-0.1005119
M43530	phylum	k__Bacteria.p__Tenericutes	-0.1598164
M43530	phylum	k__Bacteria.p__Verrucomicrobia	-0.1296243
M43535	phylum	k__Bacteria.p__Chlorobi	0.37101971
M43535	phylum	k__Bacteria.p__Elusimicrobia	0.2963616
M43535	phylum	k__Bacteria.p__TM6	0.3629514
M43535	phylum	k__Bacteria.p__TM7	0.31859984
M43535	phylum	k__Bacteria.p__WS3	0.48958744
M43586	phylum	k__Archaea.p__Crenarchaeota	-0.3394367
M43586	phylum	k__Archaea.p__Euryarchaeota	-0.3118841
M43586	phylum	k__Bacteria.p__Deferribacteres	-0.2463505
M43586	phylum	k__Bacteria.p__Elusimicrobia	-0.2520314
M43586	phylum	k__Bacteria.p__Planctomycetes	-0.255737
M43586	phylum	k__Bacteria.p__Synergistetes	-0.2989526
M43586	phylum	k__Bacteria.p__Thermi	-0.2740443
M43591	phylum	k__Bacteria.p__SR1	0.21382564
M43591	phylum	k__Bacteria.p__Synergistetes	-0.194576
M43591	phylum	k__Bacteria.p__Thermi	-0.2324448
M43761	phylum	k__Archaea.p__Crenarchaeota	-0.2770975

M43761	phylum	k__Archaea.p__Euryarchaeota	-0.2878294
M43761	phylum	k__Bacteria.p__Armatimonadetes	-0.2486021
M43761	phylum	k__Bacteria.p__Caldithrix	-0.261151
M43761	phylum	k__Bacteria.p__Chlamydiae	-0.3431774
M43761	phylum	k__Bacteria.p__Deferribacteres	-0.2738313
M43761	phylum	k__Bacteria.p__FBP	-0.2335709
M43761	phylum	k__Bacteria.p__Lentisphaerae	-0.3190335
M43761	phylum	k__Bacteria.p__Nitrospirae	-0.2542892
M43761	phylum	k__Bacteria.p__OD1	-0.2826114
M43761	phylum	k__Bacteria.p__Planctomycetes	-0.2817583
M43761	phylum	k__Bacteria.p__Proteobacteria	-0.2663849
M43761	phylum	k__Bacteria.p__Synergistetes	-0.3287539
M43761	phylum	k__Bacteria.p__TM7	-0.2897267
M43761	phylum	k__Bacteria.p__Thermi	-0.2636675
M43761	phylum	k__Bacteria.p__WS3	-0.3238984
M43802	phylum	k__Bacteria.p__Firmicutes	0.24365102
M43802	phylum	k__Bacteria.p__TM7	0.2096257
M43802	phylum	k__Bacteria.p__WS3	0.28284407
M43807	phylum	k__Bacteria.p__Actinobacteria	0.12461083
M43830	phylum	k__Bacteria.p__Fusobacteria	0.35884779
M43830	phylum	k__Bacteria.p__Verrucomicrobia	-0.2171376
M43831	phylum	k__Bacteria.p__Actinobacteria	-0.1842572
M43831	phylum	k__Bacteria.p__Fusobacteria	0.18763203
M43847	phylum	k__Bacteria.p__Actinobacteria	-0.0835881
M44526	phylum	k__Bacteria.p__Synergistetes	-0.0860981
M44577	phylum	k__Bacteria.p__Lentisphaerae	-0.1064313
M44621	phylum	k__Bacteria.p__Actinobacteria	-0.2229131
M44621	phylum	k__Bacteria.p__Chlorobi	0.20976884
M44621	phylum	k__Bacteria.p__Nitrospirae	-0.1668548
M44621	phylum	k__Bacteria.p__TM6	0.19584987
M44644	phylum	k__Bacteria.p__Firmicutes	0.2307452
M44644	phylum	k__Bacteria.p__Gemmatimonadetes	0.19857994
M44644	phylum	k__Bacteria.p__Tenericutes	-0.2010533
M44644	phylum	k__Bacteria.p__Verrucomicrobia	-0.2126598
M44656	phylum	k__Bacteria.p__Verrucomicrobia	0.08281319
M44663	phylum	k__Archaea.p__Euryarchaeota	-0.274387
M44663	phylum	k__Bacteria.p__Cyanobacteria	0.19323811
M44675	phylum	k__Bacteria.p__Actinobacteria	-0.1101187
M44675	phylum	k__Bacteria.p__Fusobacteria	0.1023505
M44675	phylum	k__Bacteria.p__Tenericutes	-0.2482507
M44675	phylum	k__Bacteria.p__Verrucomicrobia	-0.1722857
M44681	phylum	k__Bacteria.p__Chloroflexi	-0.230255
M44681	phylum	k__Bacteria.p__Cyanobacteria	0.2405338
M44681	phylum	k__Bacteria.p__Spirochaetes	-0.2580787
M44681	phylum	k__Bacteria.p__TM7	0.33541484
M44688	phylum	k__Bacteria.p__Verrucomicrobia	-0.2541231
M44872	phylum	k__Bacteria.p__Actinobacteria	-0.1026576
M44872	phylum	k__Bacteria.p__Lentisphaerae	-0.0977963
M44872	phylum	k__Bacteria.p__Synergistetes	-0.1030186
M44876	phylum	k__Bacteria.p__Firmicutes	0.26013079

M44876	phylum	k__Bacteria.p__Verrucomicrobia	-0.2089524
M44877	phylum	k__Bacteria.p__Fusobacteria	0.14352931
M44877	phylum	k__Bacteria.p__Tenericutes	-0.1253896
M44877	phylum	k__Bacteria.p__Verrucomicrobia	-0.0937218
M44878	phylum	k__Bacteria.p__Chlorobi	0.33485955
M44878	phylum	k__Bacteria.p__Fibrobacteres	0.25451354
M44878	phylum	k__Bacteria.p__Fusobacteria	0.25724818
M44878	phylum	k__Bacteria.p__SR1	-0.2019948
M44878	phylum	k__Bacteria.p__TM6	0.20928538
M45428	phylum	k__Bacteria.p__Caldithrix	-0.0909807
M45428	phylum	k__Bacteria.p__Elusimicrobia	-0.0848923
M45428	phylum	k__Bacteria.p__Lentisphaerae	-0.0949678
M45428	phylum	k__Bacteria.p__TM7	-0.0975624
M45428	phylum	k__Bacteria.p__Verrucomicrobia	-0.0873637
M45428	phylum	k__Bacteria.p__WS3	-0.1045981
M45434	phylum	k__Bacteria.p__Lentisphaerae	-0.1604598
M45434	phylum	k__Bacteria.p__Synergistetes	-0.1366271
M45434	phylum	k__Bacteria.p__Tenericutes	-0.1417026
M45434	phylum	k__Bacteria.p__Verrucomicrobia	-0.1329718
M45966	phylum	k__Bacteria.p__Lentisphaerae	0.31988581
M45968	phylum	k__Bacteria.p__Acidobacteria	0.18910641
M45968	phylum	k__Bacteria.p__Cyanobacteria	0.19559684
M45968	phylum	k__Bacteria.p__Deferribacteres	0.26121026
M45968	phylum	k__Bacteria.p__Proteobacteria	0.21857384
M45968	phylum	k__Bacteria.p__Spirochaetes	0.19690698
M45968	phylum	k__Bacteria.p__Verrucomicrobia	-0.2242613
M45970	phylum	k__Bacteria.p__Actinobacteria	-0.1200862
M45970	phylum	k__Bacteria.p__Fusobacteria	0.10329251
M45970	phylum	k__Bacteria.p__Proteobacteria	0.18197523
M45986	phylum	k__Archaea.p__Euryarchaeota	0.09986834
M45986	phylum	k__Bacteria.p__Spirochaetes	0.09138399
M45986	phylum	k__Bacteria.p__Thermi	-0.0848119
M45986	phylum	k__Bacteria.p__Verrucomicrobia	0.11378237
M46109	phylum	k__Bacteria.p__Fusobacteria	0.19694718
M46142	phylum	k__Bacteria.p__Actinobacteria	-0.0823593
M46144	phylum	k__Archaea.p__Euryarchaeota	-0.213562
M46144	phylum	k__Bacteria.p__Actinobacteria	-0.1848916
M46144	phylum	k__Bacteria.p__Fusobacteria	0.18460461
M46144	phylum	k__Bacteria.p__Spirochaetes	-0.2160269
M46144	phylum	k__Bacteria.p__Tenericutes	-0.2772437
M46144	phylum	k__Bacteria.p__Verrucomicrobia	-0.2275582
M46225	phylum	k__Bacteria.p__Chloroflexi	-0.1058294
M46225	phylum	k__Bacteria.p__TM6	0.09549714
M46225	phylum	k__Bacteria.p__TM7	0.08545713
M46225	phylum	k__Bacteria.p__Tenericutes	-0.1247966
M46283	phylum	k__Bacteria.p__Fusobacteria	-0.1365703
M46285	phylum	k__Archaea.p__Euryarchaeota	-0.2279554
M46285	phylum	k__Bacteria.p__Firmicutes	0.24851639
M46285	phylum	k__Bacteria.p__Lentisphaerae	-0.2731407
M46285	phylum	k__Bacteria.p__Verrucomicrobia	-0.2730871

M46336	phylum	k__Archaea.p__Euryarchaeota	0.10130846
M46347	phylum	k__Bacteria.p__Acidobacteria	0.18021272
M46347	phylum	k__Bacteria.p__Chloroflexi	0.18025635
M46347	phylum	k__Bacteria.p__Deferribacteres	0.22131046
M46347	phylum	k__Bacteria.p__OD1	0.20921473
M46347	phylum	k__Bacteria.p__Spirochaetes	0.24741238
M46347	phylum	k__Bacteria.p__TM6	-0.2153372
M46347	phylum	k__Bacteria.p__WS3	-0.2018451
M46355	phylum	k__Archaea.p__Euryarchaeota	-0.2108488
M46355	phylum	k__Bacteria.p__Synergistetes	-0.2543643
M46355	phylum	k__Bacteria.p__TM6	0.21564674
M46355	phylum	k__Bacteria.p__Verrucomicrobia	-0.2698702
M46355	phylum	k__Bacteria.p__WPS.2	0.21916631
M46355	phylum	k__Bacteria.p__WS3	0.21702608
M46371	phylum	k__Archaea.p__Euryarchaeota	-0.3915683
M46371	phylum	k__Bacteria.p__Cyanobacteria	0.25884053
M46371	phylum	k__Bacteria.p__Lentisphaerae	-0.3674591
M46371	phylum	k__Bacteria.p__Synergistetes	-0.351147
M46371	phylum	k__Bacteria.p__Verrucomicrobia	-0.2687852
M46398	phylum	k__Archaea.p__Euryarchaeota	-0.2061048
M46398	phylum	k__Bacteria.p__Chlorobi	-0.2793668
M46398	phylum	k__Bacteria.p__TM6	-0.2087056
M46398	phylum	k__Bacteria.p__TM7	-0.271086
M46398	phylum	k__Bacteria.p__WPS.2	-0.2220335
M46398	phylum	k__Bacteria.p__WS3	-0.3412939
M46410	phylum	k__Archaea.p__Euryarchaeota	-0.13001
M46410	phylum	k__Bacteria.p__Lentisphaerae	-0.1886063
M46410	phylum	k__Bacteria.p__Synergistetes	-0.1533116
M46410	phylum	k__Bacteria.p__Tenericutes	-0.1922002
M46410	phylum	k__Bacteria.p__Verrucomicrobia	-0.0804626
M46455	phylum	k__Bacteria.p__Acidobacteria	0.18531252
M46455	phylum	k__Bacteria.p__Chloroflexi	0.17808186
M46455	phylum	k__Bacteria.p__Lentisphaerae	-0.2619314
M46455	phylum	k__Bacteria.p__Planctomycetes	0.20054417
M46455	phylum	k__Bacteria.p__Tenericutes	-0.5564593
M46455	phylum	k__Bacteria.p__Verrucomicrobia	-0.2590787
M46463	phylum	k__Bacteria.p__Synergistetes	-0.0973548
M46473	phylum	k__Archaea.p__Euryarchaeota	-0.2020373
M46473	phylum	k__Bacteria.p__Fusobacteria	-0.1994097
M46473	phylum	k__Bacteria.p__Synergistetes	-0.196058
M46487	phylum	k__Bacteria.p__Elusimicrobia	-0.2011675
M46487	phylum	k__Bacteria.p__Lentisphaerae	0.28759543
M46493	phylum	k__Bacteria.p__Cyanobacteria	0.09258539
M46493	phylum	k__Bacteria.p__Fusobacteria	0.14934192
M46493	phylum	k__Bacteria.p__Proteobacteria	0.07530772
M46493	phylum	k__Bacteria.p__Verrucomicrobia	-0.0859788
M46500	phylum	k__Bacteria.p__Fibrobacteres	-0.1032091
M46515	phylum	k__Bacteria.p__Actinobacteria	0.24158785
M46515	phylum	k__Bacteria.p__Elusimicrobia	0.20240798
M46515	phylum	k__Bacteria.p__Lentisphaerae	-0.3783201

M46515	phylum	k__Bacteria.p__Tenericutes	-0.632881
M46515	phylum	k__Bacteria.p__Verrucomicrobia	-0.3711066
M46517	phylum	k__Bacteria.p__Elusimicrobia	0.18338154
M46517	phylum	k__Bacteria.p__WPS.2	0.1854524
M46537	phylum	k__Bacteria.p__Cyanobacteria	0.08337286
M46537	phylum	k__Bacteria.p__Planctomycetes	-0.0868541
M46537	phylum	k__Bacteria.p__Synergistetes	-0.0851109
M46539	phylum	k__Bacteria.p__Acidobacteria	-0.0865495
M46539	phylum	k__Bacteria.p__Actinobacteria	-0.1067364
M46539	phylum	k__Bacteria.p__Verrucomicrobia	-0.1008616
M46597	phylum	k__Archaea.p__Euryarchaeota	-0.0835895
M46597	phylum	k__Bacteria.p__Proteobacteria	-0.0832632
M46597	phylum	k__Bacteria.p__Synergistetes	-0.119146
M46597	phylum	k__Bacteria.p__Verrucomicrobia	-0.1698143
M46599	phylum	k__Bacteria.p__Firmicutes	0.25917465
M46599	phylum	k__Bacteria.p__Fusobacteria	0.22566135
M46599	phylum	k__Bacteria.p__Lentisphaerae	-0.2736256
M46599	phylum	k__Bacteria.p__Planctomycetes	0.24739236
M46599	phylum	k__Bacteria.p__Tenericutes	-0.5987231
M46599	phylum	k__Bacteria.p__Verrucomicrobia	-0.5441902
M46604	phylum	k__Bacteria.p__Elusimicrobia	0.225208
M46604	phylum	k__Bacteria.p__Spirochaetes	0.20390848
M46619	phylum	k__Archaea.p__Crenarchaeota	-0.0888514
M46619	phylum	k__Archaea.p__Euryarchaeota	-0.1142195
M46619	phylum	k__Bacteria.p__Actinobacteria	-0.0985123
M46619	phylum	k__Bacteria.p__Caldithrix	-0.080906
M46619	phylum	k__Bacteria.p__Deferribacteres	-0.0860513
M46619	phylum	k__Bacteria.p__OD1	-0.0947354
M46619	phylum	k__Bacteria.p__Synergistetes	-0.1021929
M46619	phylum	k__Bacteria.p__Tenericutes	-0.1760331
M46619	phylum	k__Bacteria.p__Verrucomicrobia	-0.2180627
M46632	phylum	k__Bacteria.p__Actinobacteria	-0.0898175
M46632	phylum	k__Bacteria.p__Lentisphaerae	-0.1040251
M46632	phylum	k__Bacteria.p__Synergistetes	-0.1157122
M46646	phylum	k__Bacteria.p__Fusobacteria	0.0866249
M46646	phylum	k__Bacteria.p__Synergistetes	-0.1069251
M46646	phylum	k__Bacteria.p__Verrucomicrobia	-0.1095215
M46661	phylum	k__Archaea.p__Euryarchaeota	0.19219722
M46661	phylum	k__Bacteria.p__Acidobacteria	-0.3600102
M46661	phylum	k__Bacteria.p__Caldithrix	0.18057578
M46661	phylum	k__Bacteria.p__Chlamydiae	0.19156755
M46661	phylum	k__Bacteria.p__FBP	0.17997254
M46661	phylum	k__Bacteria.p__GN02	-0.1790423
M46661	phylum	k__Bacteria.p__Tenericutes	0.20095615
M46661	phylum	k__Bacteria.p__Thermi	0.33481088
M46661	phylum	k__Bacteria.p__Verrucomicrobia	0.30661783
M46661	phylum	k__Bacteria.p__WPS.2	0.27638936
M46677	phylum	k__Archaea.p__Crenarchaeota	0.27857616
M46677	phylum	k__Bacteria.p__Actinobacteria	0.2572248
M46677	phylum	k__Bacteria.p__Chlorobi	-0.2357596

M46677	phylum	k__Bacteria.p__Chloroflexi	0.27912975
M46677	phylum	k__Bacteria.p__Deferribacteres	0.36086351
M46677	phylum	k__Bacteria.p__Fibrobacteres	-0.2049971
M46677	phylum	k__Bacteria.p__Firmicutes	0.27386453
M46677	phylum	k__Bacteria.p__OD1	0.36808431
M46677	phylum	k__Bacteria.p__Proteobacteria	0.24684571
M46677	phylum	k__Bacteria.p__SR1	-0.2262931
M46677	phylum	k__Bacteria.p__Spirochaetes	0.20857223
M46677	phylum	k__Bacteria.p__Tenericutes	-0.2824811
M46689	phylum	k__Bacteria.p__Actinobacteria	-0.0968615
M46689	phylum	k__Bacteria.p__Cyanobacteria	0.09844143
M46689	phylum	k__Bacteria.p__Synergistetes	-0.108202
M46689	phylum	k__Bacteria.p__Verrucomicrobia	-0.1001411
M46705	phylum	k__Bacteria.p__Fusobacteria	-0.0849493
M46705	phylum	k__Bacteria.p__Synergistetes	-0.0961174
M46705	phylum	k__Bacteria.p__Tenericutes	0.10725507
M46705	phylum	k__Bacteria.p__Verrucomicrobia	0.08883403
M46706	phylum	k__Bacteria.p__Firmicutes	0.22176565
M46706	phylum	k__Bacteria.p__Fusobacteria	0.20443168
M46706	phylum	k__Bacteria.p__Tenericutes	-0.5234206
M46706	phylum	k__Bacteria.p__Verrucomicrobia	-0.228051
M46707	phylum	k__Bacteria.p__Bacteroidetes	0.09411696
M46707	phylum	k__Bacteria.p__Elusimicrobia	0.09061767
M46738	phylum	k__Bacteria.p__Acidobacteria	-0.0890553
M46740	phylum	k__Bacteria.p__Firmicutes	0.08399746
M46740	phylum	k__Bacteria.p__Fusobacteria	0.15168888
M46740	phylum	k__Bacteria.p__Lentisphaerae	-0.0863436
M46740	phylum	k__Bacteria.p__Proteobacteria	0.08215451
M46740	phylum	k__Bacteria.p__Tenericutes	-0.0959695
M46740	phylum	k__Bacteria.p__Verrucomicrobia	-0.1035005
M46798	phylum	k__Bacteria.p__Verrucomicrobia	-0.2980112
M46799	phylum	k__Bacteria.p__Verrucomicrobia	-0.1336884
M46898	phylum	k__Archaea.p__Euryarchaeota	-0.1094986
M46898	phylum	k__Bacteria.p__Acidobacteria	0.09222836
M46898	phylum	k__Bacteria.p__Actinobacteria	-0.1037561
M46898	phylum	k__Bacteria.p__Fusobacteria	0.10514911
M46898	phylum	k__Bacteria.p__Synergistetes	-0.1065475
M46898	phylum	k__Bacteria.p__Verrucomicrobia	-0.0870179
M46960	phylum	k__Archaea.p__Euryarchaeota	-0.0842233
M46960	phylum	k__Bacteria.p__Actinobacteria	-0.1080536
M46960	phylum	k__Bacteria.p__Lentisphaerae	-0.086125
M46960	phylum	k__Bacteria.p__Tenericutes	-0.1073114
M46960	phylum	k__Bacteria.p__Verrucomicrobia	-0.1262844
M46964	phylum	k__Bacteria.p__Tenericutes	-0.2495594
M46989	phylum	k__Bacteria.p__Tenericutes	-0.2204071
M46989	phylum	k__Bacteria.p__Verrucomicrobia	-0.2375958
M47089	phylum	k__Bacteria.p__Lentisphaerae	-0.1233251
M47089	phylum	k__Bacteria.p__Proteobacteria	-0.1161969
M47089	phylum	k__Bacteria.p__Synergistetes	-0.0915757
M47101	phylum	k__Bacteria.p__Bacteroidetes	0.09467857

M47101	phylum	k__Bacteria.p__Cyanobacteria	0.08109399
M47101	phylum	k__Bacteria.p__Fusobacteria	-0.1131439
M47113	phylum	k__Bacteria.p__Elusimicrobia	0.19572576
M47123	phylum	k__Bacteria.p__Elusimicrobia	-0.0796927
M47123	phylum	k__Bacteria.p__Tenericutes	-0.1625271
M47183	phylum	k__Archaea.p__Euryarchaeota	-0.0930308
M47183	phylum	k__Bacteria.p__Actinobacteria	-0.1111106
M47194	phylum	k__Archaea.p__Euryarchaeota	-0.09533
M47194	phylum	k__Bacteria.p__Actinobacteria	-0.1415945
M47194	phylum	k__Bacteria.p__Verrucomicrobia	-0.0935592
M47195	phylum	k__Archaea.p__Euryarchaeota	-0.1128126
M47195	phylum	k__Bacteria.p__Actinobacteria	-0.1467843
M47195	phylum	k__Bacteria.p__Proteobacteria	-0.0841858
M47195	phylum	k__Bacteria.p__Tenericutes	-0.0908354
M47196	phylum	k__Archaea.p__Euryarchaeota	-0.1312957
M47196	phylum	k__Bacteria.p__Actinobacteria	-0.1196744
M47196	phylum	k__Bacteria.p__Tenericutes	-0.1168328
M47196	phylum	k__Bacteria.p__Verrucomicrobia	-0.1278924
M47197	phylum	k__Archaea.p__Euryarchaeota	-0.1185448
M47197	phylum	k__Bacteria.p__Actinobacteria	-0.1364374
M47197	phylum	k__Bacteria.p__Tenericutes	-0.1192134
M47197	phylum	k__Bacteria.p__Verrucomicrobia	-0.1020486
M47203	phylum	k__Archaea.p__Euryarchaeota	-0.134423
M47203	phylum	k__Bacteria.p__Fusobacteria	0.07666889
M47203	phylum	k__Bacteria.p__Lentisphaerae	-0.1227847
M47203	phylum	k__Bacteria.p__Synergistetes	-0.1348404
M47203	phylum	k__Bacteria.p__Tenericutes	-0.1927454
M47203	phylum	k__Bacteria.p__Verrucomicrobia	-0.1961672
M47204	phylum	k__Archaea.p__Euryarchaeota	-0.113896
M47204	phylum	k__Bacteria.p__Bacteroidetes	-0.0775651
M47204	phylum	k__Bacteria.p__Fusobacteria	0.09018558
M47204	phylum	k__Bacteria.p__Lentisphaerae	-0.1157059
M47204	phylum	k__Bacteria.p__Synergistetes	-0.1245613
M47204	phylum	k__Bacteria.p__Tenericutes	-0.1741257
M47204	phylum	k__Bacteria.p__Verrucomicrobia	-0.1803325
M47205	phylum	k__Archaea.p__Crenarchaeota	-0.1820035
M47205	phylum	k__Archaea.p__Euryarchaeota	-0.2030756
M47205	phylum	k__Bacteria.p__Bacteroidetes	-0.2327074
M47205	phylum	k__Bacteria.p__Deferribacteres	-0.1962068
M47205	phylum	k__Bacteria.p__SR1	0.19621948
M47205	phylum	k__Bacteria.p__Synergistetes	-0.2482113
M47205	phylum	k__Bacteria.p__Tenericutes	-0.3655906
M47205	phylum	k__Bacteria.p__Verrucomicrobia	-0.3973081
M47211	phylum	k__Bacteria.p__Chloroflexi	0.22529798
M47211	phylum	k__Bacteria.p__SR1	-0.2620001
M47211	phylum	k__Bacteria.p__TM6	-0.2453681
M47217	phylum	k__Bacteria.p__Fusobacteria	0.08759023
M47217	phylum	k__Bacteria.p__TM7	0.08741497
M47217	phylum	k__Bacteria.p__Tenericutes	-0.0911865
M47217	phylum	k__Bacteria.p__Verrucomicrobia	-0.0942968

M47218	phylum	k__Bacteria.p__Actinobacteria	-0.0899133
M47218	phylum	k__Bacteria.p__Deferribacteres	0.09084596
M47218	phylum	k__Bacteria.p__Firmicutes	0.10891308
M47218	phylum	k__Bacteria.p__Lentisphaerae	-0.088851
M47218	phylum	k__Bacteria.p__Synergistetes	-0.1156783
M47218	phylum	k__Bacteria.p__Tenericutes	-0.1223294
M47218	phylum	k__Bacteria.p__Verrucomicrobia	-0.1254222
M47219	phylum	k__Archaea.p__Euryarchaeota	-0.0891881
M47222	phylum	k__Bacteria.p__SR1	-0.1807485
M47223	phylum	k__Archaea.p__Euryarchaeota	-0.0879908
M47223	phylum	k__Bacteria.p__Actinobacteria	-0.1113783
M47223	phylum	k__Bacteria.p__Tenericutes	-0.1035238
M47223	phylum	k__Bacteria.p__Verrucomicrobia	-0.0786186
M47224	phylum	k__Bacteria.p__Acidobacteria	0.0852256
M47224	phylum	k__Bacteria.p__Firmicutes	0.10286846
M47224	phylum	k__Bacteria.p__Tenericutes	-0.1314074
M47224	phylum	k__Bacteria.p__Verrucomicrobia	-0.0844229
M47227	phylum	k__Archaea.p__Euryarchaeota	-0.0941568
M47227	phylum	k__Bacteria.p__Actinobacteria	-0.0832402
M47227	phylum	k__Bacteria.p__Lentisphaerae	-0.1295886
M47227	phylum	k__Bacteria.p__Proteobacteria	-0.0987762
M47227	phylum	k__Bacteria.p__Tenericutes	-0.1323356
M47230	phylum	k__Bacteria.p__Actinobacteria	-0.1488683
M47237	phylum	k__Bacteria.p__Actinobacteria	-0.3760545
M47237	phylum	k__Bacteria.p__Elusimicrobia	-0.2241463
M47239	phylum	k__Bacteria.p__Actinobacteria	-0.0904499
M47247	phylum	k__Archaea.p__Euryarchaeota	-0.0961426
M47247	phylum	k__Bacteria.p__Actinobacteria	-0.0892865
M47247	phylum	k__Bacteria.p__Fusobacteria	0.16459158
M47247	phylum	k__Bacteria.p__Lentisphaerae	-0.1336308
M47247	phylum	k__Bacteria.p__Verrucomicrobia	-0.1685642
M47254	phylum	k__Bacteria.p__Acidobacteria	0.25206114
M47254	phylum	k__Bacteria.p__Actinobacteria	-0.1962898
M47254	phylum	k__Bacteria.p__Spirochaetes	0.30761132
M47254	phylum	k__Bacteria.p__TM6	-0.2102368
M47254	phylum	k__Bacteria.p__TM7	-0.271762
M47254	phylum	k__Bacteria.p__Tenericutes	-0.2143993
M47254	phylum	k__Bacteria.p__WPS.2	-0.220642
M47254	phylum	k__Bacteria.p__WS3	-0.3042827
M47255	phylum	k__Bacteria.p__Lentisphaerae	-0.1126345
M47259	phylum	k__Bacteria.p__TM7	-0.2445322
M47259	phylum	k__Bacteria.p__WPS.2	-0.1762235
M47259	phylum	k__Bacteria.p__WS3	-0.2663794
M47261	phylum	k__Archaea.p__Euryarchaeota	-0.2248591
M47261	phylum	k__Bacteria.p__Actinobacteria	-0.2182967
M47261	phylum	k__Bacteria.p__TM7	-0.2139339
M47261	phylum	k__Bacteria.p__Tenericutes	-0.2309511
M47261	phylum	k__Bacteria.p__Thermi	-0.1998787
M47261	phylum	k__Bacteria.p__WPS.2	-0.1832368
M47263	phylum	k__Archaea.p__Euryarchaeota	-0.1855309

M47263	phylum	k__Bacteria.p__Chloroflexi	0.17205339
M47263	phylum	k__Bacteria.p__SR1	-0.1890642
M47263	phylum	k__Bacteria.p__Thermi	0.27526875
M47263	phylum	k__Bacteria.p__Verrucomicrobia	-0.1937834
M47263	phylum	k__Bacteria.p__WPS.2	0.25754019
M47265	phylum	k__Archaea.p__Euryarchaeota	-0.1131716
M47265	phylum	k__Bacteria.p__Actinobacteria	-0.1004093
M47265	phylum	k__Bacteria.p__Firmicutes	0.09700982
M47265	phylum	k__Bacteria.p__Lentisphaerae	-0.1392475
M47265	phylum	k__Bacteria.p__Synergistetes	-0.1425968
M47265	phylum	k__Bacteria.p__Tenericutes	-0.1334891
M47265	phylum	k__Bacteria.p__Verrucomicrobia	-0.1962353
M47266	phylum	k__Archaea.p__Euryarchaeota	-0.1063565
M47266	phylum	k__Bacteria.p__Actinobacteria	-0.1023919
M47266	phylum	k__Bacteria.p__Proteobacteria	-0.0842064
M47266	phylum	k__Bacteria.p__Tenericutes	-0.1067663
M47267	phylum	k__Archaea.p__Euryarchaeota	-0.1203464
M47267	phylum	k__Bacteria.p__Actinobacteria	-0.1310241
M47267	phylum	k__Bacteria.p__Tenericutes	-0.1233637
M47268	phylum	k__Archaea.p__Euryarchaeota	0.12712877
M47268	phylum	k__Bacteria.p__Bacteroidetes	0.09775889
M47268	phylum	k__Bacteria.p__Deferribacteres	0.09923934
M47268	phylum	k__Bacteria.p__OD1	0.08826912
M47268	phylum	k__Bacteria.p__Synergistetes	0.0876406
M47268	phylum	k__Bacteria.p__Verrucomicrobia	0.16205352
M47276	phylum	k__Bacteria.p__Acidobacteria	0.09907736
M47276	phylum	k__Bacteria.p__Actinobacteria	-0.1021142
M47277	phylum	k__Bacteria.p__Actinobacteria	-0.1196937
M47280	phylum	k__Bacteria.p__Fusobacteria	-0.1045783
M47280	phylum	k__Bacteria.p__Planctomycetes	-0.0876684
M47283	phylum	k__Bacteria.p__Acidobacteria	0.0949258
M47283	phylum	k__Bacteria.p__Deferribacteres	0.14022035
M47283	phylum	k__Bacteria.p__OD1	0.11724544
M47283	phylum	k__Bacteria.p__Planctomycetes	0.09310953
M47291	phylum	k__Bacteria.p__Lentisphaerae	-0.1916504
M47291	phylum	k__Bacteria.p__Proteobacteria	-0.0857636
M47291	phylum	k__Bacteria.p__Synergistetes	-0.1483694
M47291	phylum	k__Bacteria.p__Tenericutes	-0.0947524
M47298	phylum	k__Archaea.p__Euryarchaeota	-0.3973327
M47298	phylum	k__Bacteria.p__Lentisphaerae	-0.3119172
M47298	phylum	k__Bacteria.p__TM7	-0.2559045
M47298	phylum	k__Bacteria.p__Tenericutes	-0.4148171
M47298	phylum	k__Bacteria.p__WPS.2	-0.2423479
M47298	phylum	k__Bacteria.p__WS3	-0.3061664
M47307	phylum	k__Archaea.p__Euryarchaeota	-0.1245604
M47307	phylum	k__Bacteria.p__Actinobacteria	-0.0929615
M47307	phylum	k__Bacteria.p__Lentisphaerae	-0.1280712
M47307	phylum	k__Bacteria.p__Synergistetes	-0.0917011
M47307	phylum	k__Bacteria.p__Tenericutes	-0.1341537
M47308	phylum	k__Archaea.p__Crenarchaeota	0.17632192

M47316	phylum	k__Bacteria.p__Actinobacteria	-0.1226863
M47316	phylum	k__Bacteria.p__Lentisphaerae	-0.140808
M47316	phylum	k__Bacteria.p__Spirochaetes	-0.1002025
M47316	phylum	k__Bacteria.p__Synergistetes	-0.1385788
M47316	phylum	k__Bacteria.p__Tenericutes	-0.1023877
M47316	phylum	k__Bacteria.p__Verrucomicrobia	-0.0883947
M47317	phylum	k__Bacteria.p__Actinobacteria	-0.1238858
M47317	phylum	k__Bacteria.p__Synergistetes	-0.0989385
M47317	phylum	k__Bacteria.p__Tenericutes	-0.1358077
M47317	phylum	k__Bacteria.p__Verrucomicrobia	-0.1083982
M47320	phylum	k__Bacteria.p__Acidobacteria	0.08045666
M47320	phylum	k__Bacteria.p__Actinobacteria	-0.1451413
M47320	phylum	k__Bacteria.p__WPS.2	-0.0777759
M47323	phylum	k__Bacteria.p__Actinobacteria	-0.1504722
M47328	phylum	k__Archaea.p__Euryarchaeota	-0.1022471
M47328	phylum	k__Bacteria.p__Tenericutes	-0.1045158
M47330	phylum	k__Bacteria.p__Synergistetes	0.25147919
M47335	phylum	k__Bacteria.p__Acidobacteria	0.22265213
M47335	phylum	k__Bacteria.p__Deferribacteres	0.26790842
M47335	phylum	k__Bacteria.p__Gemmatimonadetes	0.17044938
M47335	phylum	k__Bacteria.p__OD1	0.19132834
M47335	phylum	k__Bacteria.p__Planctomycetes	0.23725287
M47335	phylum	k__Bacteria.p__Spirochaetes	0.22021294
M47335	phylum	k__Bacteria.p__TM7	-0.2205051
M47335	phylum	k__Bacteria.p__WPS.2	-0.2348925
M47335	phylum	k__Bacteria.p__WS3	-0.242286
M47346	phylum	k__Bacteria.p__Firmicutes	0.22840439
M47346	phylum	k__Bacteria.p__Lentisphaerae	-0.2063454
M47346	phylum	k__Bacteria.p__Tenericutes	-0.354472
M47346	phylum	k__Bacteria.p__Verrucomicrobia	-0.2790179
M47347	phylum	k__Bacteria.p__TM7	-0.2387149
M47352	phylum	k__Archaea.p__Euryarchaeota	-0.2089812
M47352	phylum	k__Bacteria.p__Acidobacteria	0.19199075
M47352	phylum	k__Bacteria.p__Fusobacteria	0.26385206
M47352	phylum	k__Bacteria.p__Lentisphaerae	-0.2768391
M47352	phylum	k__Bacteria.p__Synergistetes	-0.1951288
M47352	phylum	k__Bacteria.p__Tenericutes	-0.3924028
M47352	phylum	k__Bacteria.p__Verrucomicrobia	-0.5223404
M47353	phylum	k__Archaea.p__Crenarchaeota	0.09456475
M47353	phylum	k__Bacteria.p__Acidobacteria	0.1298087
M47353	phylum	k__Bacteria.p__Bacteroidetes	0.08733648
M47353	phylum	k__Bacteria.p__Chloroflexi	0.08944068
M47353	phylum	k__Bacteria.p__Deferribacteres	0.16443003
M47353	phylum	k__Bacteria.p__OD1	0.1402496
M47353	phylum	k__Bacteria.p__Planctomycetes	0.12604698
M47353	phylum	k__Bacteria.p__Spirochaetes	0.09866823
M47353	phylum	k__Bacteria.p__Tenericutes	0.10649705
M47353	phylum	k__Bacteria.p__Verrucomicrobia	0.12909587
M47358	phylum	k__Bacteria.p__Chlorobi	-0.2973555
M47358	phylum	k__Bacteria.p__Deferribacteres	0.34965698

M47358	phylum	k__Bacteria.p__OD1	0.27020046
M47358	phylum	k__Bacteria.p__TM6	-0.2668313
M47358	phylum	k__Bacteria.p__TM7	-0.282637
M47358	phylum	k__Bacteria.p__Verrucomicrobia	-0.5966528
M47358	phylum	k__Bacteria.p__WPS.2	-0.3601824
M47358	phylum	k__Bacteria.p__WS3	-0.3217832
M47359	phylum	k__Archaea.p__Euryarchaeota	-0.1906681
M47359	phylum	k__Bacteria.p__Fusobacteria	0.22975749
M47359	phylum	k__Bacteria.p__Lentisphaerae	-0.2618274
M47359	phylum	k__Bacteria.p__Synergistetes	-0.2337134
M47359	phylum	k__Bacteria.p__Verrucomicrobia	-0.192367
M47380	phylum	k__Bacteria.p__Acidobacteria	0.08362321
M47380	phylum	k__Bacteria.p__Actinobacteria	-0.1144975
M47380	phylum	k__Bacteria.p__Firmicutes	0.09273218
M47380	phylum	k__Bacteria.p__Lentisphaerae	-0.1310514
M47380	phylum	k__Bacteria.p__Synergistetes	-0.1205923
M47380	phylum	k__Bacteria.p__Tenericutes	-0.1226527
M47380	phylum	k__Bacteria.p__Verrucomicrobia	-0.1141937
M47381	phylum	k__Bacteria.p__Chloroflexi	0.17759959
M47388	phylum	k__Archaea.p__Euryarchaeota	-0.1153383
M47388	phylum	k__Bacteria.p__Actinobacteria	-0.1424525
M47388	phylum	k__Bacteria.p__Firmicutes	0.08806489
M47388	phylum	k__Bacteria.p__Fusobacteria	0.14980747
M47388	phylum	k__Bacteria.p__Lentisphaerae	-0.1217009
M47388	phylum	k__Bacteria.p__Tenericutes	-0.128515
M47388	phylum	k__Bacteria.p__Verrucomicrobia	-0.1855263
M47391	phylum	k__Archaea.p__Euryarchaeota	-0.0861742
M47391	phylum	k__Bacteria.p__Actinobacteria	-0.1208166
M47391	phylum	k__Bacteria.p__Proteobacteria	-0.1146438
M47391	phylum	k__Bacteria.p__Synergistetes	-0.1116332
M47392	phylum	k__Archaea.p__Euryarchaeota	-0.3281688
M47392	phylum	k__Bacteria.p__Actinobacteria	-0.2815812
M47392	phylum	k__Bacteria.p__Cyanobacteria	0.19490834
M47392	phylum	k__Bacteria.p__Lentisphaerae	-0.1974367
M47392	phylum	k__Bacteria.p__Synergistetes	-0.1697349
M47392	phylum	k__Bacteria.p__Thermi	-0.1704757
M47392	phylum	k__Bacteria.p__WPS.2	-0.184466
M47431	phylum	k__Archaea.p__Euryarchaeota	-0.1183272
M47431	phylum	k__Bacteria.p__Actinobacteria	-0.0848367
M47431	phylum	k__Bacteria.p__Verrucomicrobia	-0.0893936
M47437	phylum	k__Bacteria.p__Chlorobi	-0.0850696
M47437	phylum	k__Bacteria.p__Firmicutes	0.16245552
M47437	phylum	k__Bacteria.p__Fusobacteria	0.12562047
M47437	phylum	k__Bacteria.p__Lentisphaerae	-0.0971786
M47437	phylum	k__Bacteria.p__Proteobacteria	0.07631704
M47437	phylum	k__Bacteria.p__Tenericutes	-0.1870965
M47437	phylum	k__Bacteria.p__Verrucomicrobia	-0.1449265
M47439	phylum	k__Bacteria.p__Actinobacteria	0.10320278
M47439	phylum	k__Bacteria.p__Firmicutes	0.08978898
M47439	phylum	k__Bacteria.p__Lentisphaerae	-0.1221622

M47439	phylum	k__Bacteria.p__Tenericutes	-0.1561131
M47439	phylum	k__Bacteria.p__Thermi	-0.084139
M47439	phylum	k__Bacteria.p__Verrucomicrobia	-0.0981606
M47497	phylum	k__Bacteria.p__Acidobacteria	0.20609956
M47497	phylum	k__Bacteria.p__Actinobacteria	-0.2105687
M47545	phylum	k__Archaea.p__Euryarchaeota	-0.1031314
M47545	phylum	k__Bacteria.p__Firmicutes	-0.0950151
M47545	phylum	k__Bacteria.p__Lentisphaerae	-0.1934089
M47545	phylum	k__Bacteria.p__Planctomycetes	-0.1015076
M47545	phylum	k__Bacteria.p__Proteobacteria	-0.110725
M47545	phylum	k__Bacteria.p__Synergistetes	-0.0864965
M47619	phylum	k__Bacteria.p__Firmicutes	-0.1126802
M47619	phylum	k__Bacteria.p__Lentisphaerae	-0.1537734
M47619	phylum	k__Bacteria.p__Synergistetes	-0.1177741
M47619	phylum	k__Bacteria.p__Verrucomicrobia	-0.1073352
M47639	phylum	k__Archaea.p__Euryarchaeota	-0.2236543
M47639	phylum	k__Bacteria.p__Lentisphaerae	-0.5114383
M47639	phylum	k__Bacteria.p__Synergistetes	-0.3029337
M47639	phylum	k__Bacteria.p__Tenericutes	-0.6173977
M47642	phylum	k__Bacteria.p__Chlorobi	0.12276732
M47642	phylum	k__Bacteria.p__Cyanobacteria	0.1217544
M47642	phylum	k__Bacteria.p__Lentisphaerae	-0.0920887
M47642	phylum	k__Bacteria.p__OD1	-0.1022458
M47642	phylum	k__Bacteria.p__Proteobacteria	-0.0874392
M47642	phylum	k__Bacteria.p__Synergistetes	-0.1551443
M47642	phylum	k__Bacteria.p__TM6	0.11998344
M47643	phylum	k__Archaea.p__Euryarchaeota	-0.2194681
M47643	phylum	k__Bacteria.p__Tenericutes	-0.3931879
M47643	phylum	k__Bacteria.p__Verrucomicrobia	-0.5139694
M47675	phylum	k__Archaea.p__Euryarchaeota	0.20587159
M47685	phylum	k__Archaea.p__Euryarchaeota	-0.0938668
M47685	phylum	k__Bacteria.p__Fibrobacteres	0.09430693
M47685	phylum	k__Bacteria.p__Nitrospirae	-0.0904665
M47685	phylum	k__Bacteria.p__Synergistetes	-0.0863304
M47685	phylum	k__Bacteria.p__TM6	0.10619203
M47686	phylum	k__Archaea.p__Euryarchaeota	-0.3155798
M47686	phylum	k__Bacteria.p__Lentisphaerae	-0.3137624
M47686	phylum	k__Bacteria.p__Proteobacteria	-0.2189485
M47686	phylum	k__Bacteria.p__Synergistetes	-0.4101842
M47687	phylum	k__Bacteria.p__Fusobacteria	0.10359772
M47687	phylum	k__Bacteria.p__Lentisphaerae	-0.1477691
M47687	phylum	k__Bacteria.p__Tenericutes	-0.1350049
M47687	phylum	k__Bacteria.p__Verrucomicrobia	-0.0890622
M47695	phylum	k__Bacteria.p__Thermi	-0.2127629
M47695	phylum	k__Bacteria.p__Verrucomicrobia	-0.3061588
M47706	phylum	k__Bacteria.p__Spirochaetes	0.20563027
M47706	phylum	k__Bacteria.p__Tenericutes	-0.3365854
M47709	phylum	k__Bacteria.p__SR1	0.18493052
M47715	phylum	k__Bacteria.p__Actinobacteria	-0.1421594
M47715	phylum	k__Bacteria.p__Armatimonadetes	-0.0825537

M47715	phylum	k__Bacteria.p__Chlamydiae	-0.0860196
M47715	phylum	k__Bacteria.p__FBP	-0.0836281
M47715	phylum	k__Bacteria.p__GN02	0.08092508
M47715	phylum	k__Bacteria.p__Synergistetes	-0.1043646
M47715	phylum	k__Bacteria.p__Verrucomicrobia	-0.1375369
M47787	phylum	k__Bacteria.p__Actinobacteria	-0.0905638
M47787	phylum	k__Bacteria.p__Bacteroidetes	0.08793739
M47787	phylum	k__Bacteria.p__Firmicutes	-0.1038379
M47787	phylum	k__Bacteria.p__Fusobacteria	-0.0959092
M47787	phylum	k__Bacteria.p__Proteobacteria	-0.0764965
M47791	phylum	k__Bacteria.p__Bacteroidetes	-0.185433
M47800	phylum	k__Bacteria.p__Lentisphaerae	-0.1543053
M47800	phylum	k__Bacteria.p__Planctomycetes	0.07760433
M47800	phylum	k__Bacteria.p__Tenericutes	-0.2211076
M47800	phylum	k__Bacteria.p__Verrucomicrobia	-0.138091
M47806	phylum	k__Bacteria.p__Elusimicrobia	0.07897001
M47806	phylum	k__Bacteria.p__Planctomycetes	0.08434579
M47806	phylum	k__Bacteria.p__Tenericutes	-0.1024541
M47809	phylum	k__Bacteria.p__Firmicutes	-0.1468172
M47809	phylum	k__Bacteria.p__Fusobacteria	-0.0951954
M47836	phylum	k__Bacteria.p__Fusobacteria	-0.2165992
M47898	phylum	k__Bacteria.p__Actinobacteria	-0.1994262
M47898	phylum	k__Bacteria.p__Deferribacteres	0.35085044
M47898	phylum	k__Bacteria.p__OD1	0.18561904
M47898	phylum	k__Bacteria.p__Proteobacteria	0.20487704
M47905	phylum	k__Bacteria.p__Elusimicrobia	0.28102727
M47905	phylum	k__Bacteria.p__Lentisphaerae	-0.4406343
M47905	phylum	k__Bacteria.p__Synergistetes	-0.2715238
M47905	phylum	k__Bacteria.p__Tenericutes	-0.4294238
M47905	phylum	k__Bacteria.p__Verrucomicrobia	-0.2838771
M47905	phylum	k__Bacteria.p__WPS.2	0.19689123
M47954	phylum	k__Archaea.p__Crenarchaeota	-0.2400898
M47954	phylum	k__Bacteria.p__Armatimonadetes	-0.2046584
M47954	phylum	k__Bacteria.p__Cyanobacteria	0.20015033
M47954	phylum	k__Bacteria.p__Elusimicrobia	0.26269191
M47954	phylum	k__Bacteria.p__FBP	-0.199818
M47954	phylum	k__Bacteria.p__Fibrobacteres	0.23045205
M47954	phylum	k__Bacteria.p__GN02	0.21143194
M47954	phylum	k__Bacteria.p__Gemmatimonadetes	-0.1884708
M47954	phylum	k__Bacteria.p__Lentisphaerae	-0.2224655
M47954	phylum	k__Bacteria.p__Nitrospirae	-0.2411307
M47954	phylum	k__Bacteria.p__TM6	0.21110339
M47954	phylum	k__Bacteria.p__Tenericutes	-0.224648
M47999	phylum	k__Archaea.p__Euryarchaeota	-0.2027751
M47999	phylum	k__Bacteria.p__Verrucomicrobia	-0.1836948
M48114	phylum	k__Bacteria.p__WPS.2	-0.0821465
M48118	phylum	k__Bacteria.p__Bacteroidetes	-0.2491071
M48118	phylum	k__Bacteria.p__TM6	0.20882818
M48118	phylum	k__Bacteria.p__Verrucomicrobia	-0.2279855
M48149	phylum	k__Bacteria.p__Chloroflexi	-0.0845934

M48149	phylum	k__Bacteria.p__Spirochaetes	-0.0879366
M48152	phylum	k__Archaea.p__Euryarchaeota	-0.1012711
M48152	phylum	k__Bacteria.p__Actinobacteria	-0.081332
M48152	phylum	k__Bacteria.p__Fusobacteria	0.10389332
M48152	phylum	k__Bacteria.p__Tenericutes	-0.1247132
M48152	phylum	k__Bacteria.p__Verrucomicrobia	-0.1784138
M48153	phylum	k__Archaea.p__Euryarchaeota	-0.1062123
M48153	phylum	k__Bacteria.p__Synergistetes	-0.0823026
M48153	phylum	k__Bacteria.p__Verrucomicrobia	-0.1433281
M48187	phylum	k__Bacteria.p__Deferribacteres	-0.2093535
M48187	phylum	k__Bacteria.p__Lentisphaerae	-0.2117939
M48187	phylum	k__Bacteria.p__TM7	0.2013103
M48187	phylum	k__Bacteria.p__Tenericutes	-0.2199349
M48187	phylum	k__Bacteria.p__Verrucomicrobia	-0.3080486
M48189	phylum	k__Bacteria.p__Actinobacteria	-0.1178653
M48189	phylum	k__Bacteria.p__Verrucomicrobia	-0.1158629
M48191	phylum	k__Archaea.p__Euryarchaeota	-0.2944845
M48191	phylum	k__Bacteria.p__Lentisphaerae	-0.1953597
M48191	phylum	k__Bacteria.p__Tenericutes	-0.3370527
M48195	phylum	k__Archaea.p__Euryarchaeota	-0.1046987
M48195	phylum	k__Bacteria.p__Synergistetes	-0.1140571
M48195	phylum	k__Bacteria.p__Verrucomicrobia	-0.1212504
M48252	phylum	k__Bacteria.p__Lentisphaerae	-0.2219756
M48255	phylum	k__Bacteria.p__Chlorobi	-0.0961123
M48255	phylum	k__Bacteria.p__Fibrobacteres	-0.0830879
M48255	phylum	k__Bacteria.p__Verrucomicrobia	-0.0990534
M48258	phylum	k__Archaea.p__Euryarchaeota	-0.3323288
M48258	phylum	k__Bacteria.p__Acidobacteria	0.32236484
M48258	phylum	k__Bacteria.p__Chlorobi	-0.5777477
M48258	phylum	k__Bacteria.p__Deferribacteres	0.51262142
M48258	phylum	k__Bacteria.p__Elusimicrobia	-0.2494451
M48258	phylum	k__Bacteria.p__Fibrobacteres	-0.3319485
M48258	phylum	k__Bacteria.p__Lentisphaerae	-0.3794457
M48258	phylum	k__Bacteria.p__OD1	0.45753644
M48258	phylum	k__Bacteria.p__Planctomycetes	0.28564544
M48258	phylum	k__Bacteria.p__Spirochaetes	0.53261943
M48258	phylum	k__Bacteria.p__TM6	-0.474815
M48258	phylum	k__Bacteria.p__TM7	-0.7586398
M48258	phylum	k__Bacteria.p__Thermi	-0.3483583
M48258	phylum	k__Bacteria.p__Verrucomicrobia	-0.2356631
M48258	phylum	k__Bacteria.p__WPS.2	-0.3943513
M48258	phylum	k__Bacteria.p__WS3	-0.8488989
M48340	phylum	k__Bacteria.p__Verrucomicrobia	-0.1369867
M48428	phylum	k__Archaea.p__Euryarchaeota	-0.0800377
M48428	phylum	k__Bacteria.p__Synergistetes	-0.1503509
M48428	phylum	k__Bacteria.p__Tenericutes	-0.1062233
M48428	phylum	k__Bacteria.p__Verrucomicrobia	-0.1527431
M48434	phylum	k__Bacteria.p__Spirochaetes	0.10330077
M48455	phylum	k__Archaea.p__Crenarchaeota	0.11186827
M48455	phylum	k__Bacteria.p__Bacteroidetes	0.13289928

M48455	phylum	k__Bacteria.p__Deferribacteres	0.09843782
M48455	phylum	k__Bacteria.p__Fibrobacteres	-0.1054725
M48455	phylum	k__Bacteria.p__OD1	0.0987353
M48569	phylum	k__Bacteria.p__Synergistetes	-0.2289677
M48660	phylum	k__Bacteria.p__Deferribacteres	0.22332672
M48660	phylum	k__Bacteria.p__Firmicutes	0.22186795
M48660	phylum	k__Bacteria.p__Thermi	0.20359747
M48660	phylum	k__Bacteria.p__Verrucomicrobia	-0.2301939
M48660	phylum	k__Bacteria.p__WPS.2	0.34748195
M48660	phylum	k__Bacteria.p__WS3	0.26708368
M48679	phylum	k__Archaea.p__Euryarchaeota	-0.2672396
M48679	phylum	k__Bacteria.p__Lentisphaerae	-0.4136629
M48679	phylum	k__Bacteria.p__Synergistetes	-0.2480709
M48679	phylum	k__Bacteria.p__TM6	0.19522113
M48679	phylum	k__Bacteria.p__Tenericutes	-0.4913434
M48679	phylum	k__Bacteria.p__Verrucomicrobia	-0.3470504
M48773	phylum	k__Bacteria.p__Elusimicrobia	0.18402053
M48773	phylum	k__Bacteria.p__Firmicutes	0.20048472
M48773	phylum	k__Bacteria.p__Lentisphaerae	-0.2148194
M48773	phylum	k__Bacteria.p__Tenericutes	-0.3029829
M48773	phylum	k__Bacteria.p__Verrucomicrobia	-0.1776279
M48774	phylum	k__Bacteria.p__Elusimicrobia	0.2310212
M48774	phylum	k__Bacteria.p__Fusobacteria	0.29728579
M48774	phylum	k__Bacteria.p__Lentisphaerae	-0.3800227
M48774	phylum	k__Bacteria.p__Tenericutes	-0.6384012
M48774	phylum	k__Bacteria.p__Verrucomicrobia	-0.3735657
M48853	phylum	k__Bacteria.p__Lentisphaerae	-0.1023848
M48857	phylum	k__Bacteria.p__Acidobacteria	0.13560653
M48857	phylum	k__Bacteria.p__Gemmatimonadetes	0.08989154
M48857	phylum	k__Bacteria.p__Planctomycetes	0.08371993
M48857	phylum	k__Bacteria.p__Verrucomicrobia	-0.1415222
M48885	phylum	k__Bacteria.p__Cyanobacteria	0.08733882
M48889	phylum	k__Bacteria.p__Proteobacteria	0.21853225
M48889	phylum	k__Bacteria.p__SR1	-0.2412124
M48889	phylum	k__Bacteria.p__TM7	0.23681855
M48889	phylum	k__Bacteria.p__WPS.2	0.17803607
M48889	phylum	k__Bacteria.p__WS3	0.26486966
M48892	phylum	k__Bacteria.p__Firmicutes	0.08752075
M48973	phylum	k__Bacteria.p__Tenericutes	-0.2411254
M48990	phylum	k__Bacteria.p__Fibrobacteres	0.20021113
M48994	phylum	k__Bacteria.p__Verrucomicrobia	-0.2610059
M49008	phylum	k__Bacteria.p__Verrucomicrobia	-0.1015867
M49298	phylum	k__Bacteria.p__Acidobacteria	0.10905899
M49298	phylum	k__Bacteria.p__Bacteroidetes	0.08396685
M49298	phylum	k__Bacteria.p__Fusobacteria	-0.0827661
M49298	phylum	k__Bacteria.p__Verrucomicrobia	0.0811235
M49311	phylum	k__Bacteria.p__WPS.2	0.22937356
M49329	phylum	k__Bacteria.p__Acidobacteria	0.09103036
M49329	phylum	k__Bacteria.p__Chloroflexi	0.08426655
M49329	phylum	k__Bacteria.p__Verrucomicrobia	0.21190471

M49330	phylum	k__Bacteria.p__Chlorobi	-0.216161
M49330	phylum	k__Bacteria.p__Elusimicrobia	-0.2260873
M49330	phylum	k__Bacteria.p__TM7	-0.2131317
M49330	phylum	k__Bacteria.p__WS3	-0.3062766
M49335	phylum	k__Archaea.p__Euryarchaeota	0.32416039
M49335	phylum	k__Bacteria.p__Acidobacteria	0.21912873
M49335	phylum	k__Bacteria.p__Chlorobi	0.31554851
M49335	phylum	k__Bacteria.p__Fusobacteria	-0.2090547
M49335	phylum	k__Bacteria.p__TM6	0.2664667
M49335	phylum	k__Bacteria.p__TM7	0.25719539
M49335	phylum	k__Bacteria.p__WS3	0.29806089
M49342	phylum	k__Bacteria.p__Acidobacteria	0.07922811
M49342	phylum	k__Bacteria.p__Chloroflexi	0.09189734
M49342	phylum	k__Bacteria.p__Fusobacteria	-0.0950146
M49342	phylum	k__Bacteria.p__Verrucomicrobia	0.13602122
M49383	phylum	k__Bacteria.p__TM7	0.09487887
M49459	phylum	k__Archaea.p__Euryarchaeota	-0.0932071
M49459	phylum	k__Bacteria.p__Actinobacteria	-0.1214536
M49459	phylum	k__Bacteria.p__Synergistetes	-0.131622
M49459	phylum	k__Bacteria.p__Verrucomicrobia	-0.1006533
M49460	phylum	k__Bacteria.p__Acidobacteria	0.18810689
M49460	phylum	k__Bacteria.p__Tenericutes	-0.2554125
M49460	phylum	k__Bacteria.p__Verrucomicrobia	-0.2406713
M49461	phylum	k__Bacteria.p__Lentisphaerae	-0.1152938
M49461	phylum	k__Bacteria.p__Proteobacteria	-0.1197988
M49461	phylum	k__Bacteria.p__Synergistetes	-0.1366697
M49463	phylum	k__Bacteria.p__Actinobacteria	-0.1425823
M49463	phylum	k__Bacteria.p__Lentisphaerae	-0.0887246
M49463	phylum	k__Bacteria.p__Tenericutes	-0.1053479
M49463	phylum	k__Bacteria.p__Verrucomicrobia	-0.1455535
M49476	phylum	k__Archaea.p__Crenarchaeota	0.09623667
M49476	phylum	k__Archaea.p__Euryarchaeota	0.07915629
M49476	phylum	k__Bacteria.p__Armatimonadetes	0.08072393
M49476	phylum	k__Bacteria.p__Caldithrix	0.10267796
M49476	phylum	k__Bacteria.p__Chlamydiae	0.08296769
M49476	phylum	k__Bacteria.p__Chloroflexi	0.07994603
M49476	phylum	k__Bacteria.p__Deferribacteres	0.09491893
M49476	phylum	k__Bacteria.p__FBP	0.0776889
M49476	phylum	k__Bacteria.p__GN02	-0.0783391
M49476	phylum	k__Bacteria.p__Nitrospirae	0.08257494
M49476	phylum	k__Bacteria.p__OD1	0.10396615
M49476	phylum	k__Bacteria.p__Planctomycetes	0.08533201
M49476	phylum	k__Bacteria.p__SR1	-0.08481
M49476	phylum	k__Bacteria.p__WS3	0.09588548
M49513	phylum	k__Bacteria.p__Actinobacteria	-0.100894
M49515	phylum	k__Bacteria.p__Verrucomicrobia	-0.1060505
M49529	phylum	k__Archaea.p__Euryarchaeota	-0.0859146
M49529	phylum	k__Bacteria.p__Fusobacteria	0.12245417
M49529	phylum	k__Bacteria.p__Lentisphaerae	-0.0980207
M49529	phylum	k__Bacteria.p__Synergistetes	-0.1116503

M49529	phylum	k__Bacteria.p__Tenericutes	-0.0899631
M49529	phylum	k__Bacteria.p__Verrucomicrobia	-0.1260117
M49532	phylum	k__Bacteria.p__Fusobacteria	-0.1314458
M49534	phylum	k__Bacteria.p__Chloroflexi	0.08529759
M49534	phylum	k__Bacteria.p__Synergistetes	-0.1093672
M49539	phylum	k__Archaea.p__Euryarchaeota	-0.1223337
M49539	phylum	k__Bacteria.p__Lentisphaerae	-0.1795293
M49539	phylum	k__Bacteria.p__Synergistetes	-0.1048899
M49539	phylum	k__Bacteria.p__Tenericutes	-0.1688862
M49539	phylum	k__Bacteria.p__Verrucomicrobia	-0.1270645
M49542	phylum	k__Archaea.p__Euryarchaeota	-0.0807081
M49542	phylum	k__Bacteria.p__Actinobacteria	-0.1531716
M49542	phylum	k__Bacteria.p__Firmicutes	0.11215342
M49542	phylum	k__Bacteria.p__Lentisphaerae	-0.1473071
M49542	phylum	k__Bacteria.p__Verrucomicrobia	-0.1283911
M49588	phylum	k__Bacteria.p__Elusimicrobia	-0.1766341
M49588	phylum	k__Bacteria.p__Verrucomicrobia	-0.2500266
M49626	phylum	k__Bacteria.p__Chloroflexi	0.24398203
M49626	phylum	k__Bacteria.p__Spirochaetes	0.23206148
M49626	phylum	k__Bacteria.p__Tenericutes	-0.2811243
M49626	phylum	k__Bacteria.p__Verrucomicrobia	-0.3064001
M49627	phylum	k__Archaea.p__Euryarchaeota	-0.2041874
M49627	phylum	k__Bacteria.p__Cyanobacteria	0.10518238
M49627	phylum	k__Bacteria.p__Lentisphaerae	-0.1426747
M49627	phylum	k__Bacteria.p__Synergistetes	-0.185918
M49627	phylum	k__Bacteria.p__Verrucomicrobia	-0.0871401
M49630	phylum	k__Bacteria.p__Tenericutes	-0.2789432
M49630	phylum	k__Bacteria.p__Verrucomicrobia	-0.2564503
M49631	phylum	k__Bacteria.p__Lentisphaerae	-0.2140049
M49631	phylum	k__Bacteria.p__Proteobacteria	-0.1971774
M49632	phylum	k__Archaea.p__Euryarchaeota	-0.2920617
M49632	phylum	k__Bacteria.p__Lentisphaerae	-0.2228421
M49632	phylum	k__Bacteria.p__Synergistetes	-0.2189781
M49632	phylum	k__Bacteria.p__Tenericutes	-0.4272667
M49634	phylum	k__Archaea.p__Euryarchaeota	-0.0919517
M49634	phylum	k__Bacteria.p__Actinobacteria	0.08363871
M49634	phylum	k__Bacteria.p__Fusobacteria	0.10245815
M49634	phylum	k__Bacteria.p__Lentisphaerae	-0.1862497
M49634	phylum	k__Bacteria.p__Synergistetes	-0.0815912
M49634	phylum	k__Bacteria.p__Tenericutes	-0.2151973
M49634	phylum	k__Bacteria.p__Verrucomicrobia	-0.0763158
M49635	phylum	k__Bacteria.p__Synergistetes	-0.0967
M49636	phylum	k__Bacteria.p__Acidobacteria	0.09226282
M49636	phylum	k__Bacteria.p__Actinobacteria	0.09708085
M49636	phylum	k__Bacteria.p__Firmicutes	0.17560153
M49636	phylum	k__Bacteria.p__Lentisphaerae	-0.1324369
M49636	phylum	k__Bacteria.p__Spirochaetes	0.09304928
M49636	phylum	k__Bacteria.p__Synergistetes	-0.1033481
M49636	phylum	k__Bacteria.p__Tenericutes	-0.1658648
M49645	phylum	k__Archaea.p__Euryarchaeota	-0.0886404

M49645	phylum	k__Bacteria.p__Actinobacteria	-0.1034338
M49645	phylum	k__Bacteria.p__Fusobacteria	0.09748304
M49645	phylum	k__Bacteria.p__Lentisphaerae	-0.0850911
M49645	phylum	k__Bacteria.p__Synergistetes	-0.1010417
M49645	phylum	k__Bacteria.p__Tenericutes	-0.1285715
M49645	phylum	k__Bacteria.p__Verrucomicrobia	-0.1902117
M49646	phylum	k__Archaea.p__Euryarchaeota	0.09617304
M49646	phylum	k__Bacteria.p__Spirochaetes	0.08528891
M49646	phylum	k__Bacteria.p__Synergistetes	0.08026816
M49646	phylum	k__Bacteria.p__Tenericutes	0.12060999
M49646	phylum	k__Bacteria.p__Verrucomicrobia	0.15420875
M49647	phylum	k__Bacteria.p__Actinobacteria	0.07914039
M49650	phylum	k__Bacteria.p__Actinobacteria	-0.2180531
M49650	phylum	k__Bacteria.p__TM7	-0.2582271
M49651	phylum	k__Bacteria.p__Acidobacteria	0.1029347
M49651	phylum	k__Bacteria.p__WPS.2	-0.09079
M49663	phylum	k__Bacteria.p__Elusimicrobia	0.11288707
M49663	phylum	k__Bacteria.p__Tenericutes	0.12352739
M49665	phylum	k__Bacteria.p__Chlorobi	0.25636806
M49665	phylum	k__Bacteria.p__Elusimicrobia	0.28684935
M49665	phylum	k__Bacteria.p__Firmicutes	0.27303998
M49665	phylum	k__Bacteria.p__Spirochaetes	-0.2025756
M49665	phylum	k__Bacteria.p__TM6	0.25155972
M49665	phylum	k__Bacteria.p__TM7	0.35172547
M49665	phylum	k__Bacteria.p__Tenericutes	-0.2807841
M49665	phylum	k__Bacteria.p__Verrucomicrobia	-0.1869638
M49665	phylum	k__Bacteria.p__WS3	0.29622263
M49675	phylum	k__Bacteria.p__Lentisphaerae	-0.1140116
M49675	phylum	k__Bacteria.p__Synergistetes	-0.0880178
M49679	phylum	k__Bacteria.p__Chlorobi	0.20898398
M49679	phylum	k__Bacteria.p__Chloroflexi	-0.1849461
M49679	phylum	k__Bacteria.p__Lentisphaerae	0.31991627
M49679	phylum	k__Bacteria.p__Tenericutes	0.3447507
M49681	phylum	k__Archaea.p__Euryarchaeota	0.09152587
M49681	phylum	k__Bacteria.p__Bacteroidetes	0.11381003
M49681	phylum	k__Bacteria.p__Elusimicrobia	0.10196273
M49834	phylum	k__Bacteria.p__Bacteroidetes	0.10943932
M49834	phylum	k__Bacteria.p__Fusobacteria	-0.0851595
M49834	phylum	k__Bacteria.p__Proteobacteria	-0.0995956
M49883	phylum	k__Archaea.p__Euryarchaeota	0.2652955
M49883	phylum	k__Bacteria.p__TM7	0.25053792
M49883	phylum	k__Bacteria.p__WS3	0.32040172
M52052	phylum	k__Bacteria.p__Verrucomicrobia	-0.1395841
M52056	phylum	k__Bacteria.p__Bacteroidetes	0.08394086
M52056	phylum	k__Bacteria.p__Elusimicrobia	0.09507104
M52206	phylum	k__Archaea.p__Euryarchaeota	-0.1429685
M52206	phylum	k__Bacteria.p__Lentisphaerae	-0.1885965
M52206	phylum	k__Bacteria.p__Synergistetes	-0.1504939
M52206	phylum	k__Bacteria.p__Tenericutes	-0.0927105
M52206	phylum	k__Bacteria.p__Verrucomicrobia	-0.1197388

M52206	phylum	k__Bacteria.p__WS3	-0.0876702
M52233	phylum	k__Archaea.p__Euryarchaeota	0.11179624
M52233	phylum	k__Bacteria.p__Verrucomicrobia	0.11462449
M52234	phylum	k__Bacteria.p__Acidobacteria	0.26505967
M52234	phylum	k__Bacteria.p__Caldithrix	-0.1846164
M52234	phylum	k__Bacteria.p__Cyanobacteria	-0.338309
M52234	phylum	k__Bacteria.p__Deferribacteres	0.35020557
M52234	phylum	k__Bacteria.p__OD1	0.25855288
M52234	phylum	k__Bacteria.p__Planctomycetes	0.20412017
M52234	phylum	k__Bacteria.p__Spirochaetes	0.20543863
M52234	phylum	k__Bacteria.p__TM7	-0.4214781
M52234	phylum	k__Bacteria.p__Thermi	-0.2524669
M52234	phylum	k__Bacteria.p__Verrucomicrobia	-0.1800259
M52234	phylum	k__Bacteria.p__WPS.2	-0.228977
M52234	phylum	k__Bacteria.p__WS3	-0.42047
M52238	phylum	k__Bacteria.p__Chlorobi	0.11065806
M52238	phylum	k__Bacteria.p__Fusobacteria	0.11333679
M52238	phylum	k__Bacteria.p__Synergistetes	-0.0962305
M52238	phylum	k__Bacteria.p__Tenericutes	-0.132551
M52238	phylum	k__Bacteria.p__Verrucomicrobia	-0.1531781
M52238	phylum	k__Bacteria.p__WS3	0.09109745
M52243	phylum	k__Bacteria.p__Actinobacteria	-0.1501388
M52243	phylum	k__Bacteria.p__Firmicutes	-0.08779
M52245	phylum	k__Bacteria.p__Deferribacteres	-0.1807283
M52247	phylum	k__Bacteria.p__Elusimicrobia	0.10177404
M52248	phylum	k__Bacteria.p__Actinobacteria	-0.1116767
M52248	phylum	k__Bacteria.p__Firmicutes	-0.0922745
M52248	phylum	k__Bacteria.p__Fusobacteria	0.09505615
M52248	phylum	k__Bacteria.p__Planctomycetes	0.09048316
M52251	phylum	k__Bacteria.p__Acidobacteria	0.18184026
M52252	phylum	k__Bacteria.p__Acidobacteria	0.22687575
M52252	phylum	k__Bacteria.p__Bacteroidetes	0.24296932
M52252	phylum	k__Bacteria.p__Verrucomicrobia	-0.2323084
M52257	phylum	k__Archaea.p__Euryarchaeota	-0.1238102
M52257	phylum	k__Bacteria.p__Chlamydiae	-0.0827629
M52257	phylum	k__Bacteria.p__Lentisphaerae	-0.1617166
M52257	phylum	k__Bacteria.p__Proteobacteria	-0.128865
M52257	phylum	k__Bacteria.p__Synergistetes	-0.1568697
M52257	phylum	k__Bacteria.p__Tenericutes	-0.126046
M52257	phylum	k__Bacteria.p__Verrucomicrobia	-0.0986165
M52267	phylum	k__Archaea.p__Euryarchaeota	-0.220114
M52267	phylum	k__Bacteria.p__Actinobacteria	-0.290987
M52267	phylum	k__Bacteria.p__Armatimonadetes	-0.1930747
M52267	phylum	k__Bacteria.p__Chlamydiae	-0.223169
M52267	phylum	k__Bacteria.p__Chlorobi	0.21451982
M52267	phylum	k__Bacteria.p__FBP	-0.1908777
M52267	phylum	k__Bacteria.p__GN02	0.1881622
M52267	phylum	k__Bacteria.p__Nitrospirae	-0.191553
M52267	phylum	k__Bacteria.p__Synergistetes	-0.2498241
M52267	phylum	k__Bacteria.p__TM6	0.21819501

M52267	phylum	k__Bacteria.p__Tenericutes	-0.2969223
M52267	phylum	k__Bacteria.p__Thermi	-0.1900974
M52267	phylum	k__Bacteria.p__Verrucomicrobia	-0.3498523
M52268	phylum	k__Bacteria.p__Firmicutes	0.1133837
M52268	phylum	k__Bacteria.p__Fusobacteria	0.11641338
M52268	phylum	k__Bacteria.p__Synergistetes	-0.104568
M52268	phylum	k__Bacteria.p__Verrucomicrobia	-0.1226727
M52273	phylum	k__Bacteria.p__Acidobacteria	0.34952164
M52273	phylum	k__Bacteria.p__Chloroflexi	0.25903938
M52273	phylum	k__Bacteria.p__Deferribacteres	0.43230632
M52273	phylum	k__Bacteria.p__Gemmatimonadetes	0.26988204
M52273	phylum	k__Bacteria.p__OD1	0.29882263
M52273	phylum	k__Bacteria.p__Planctomycetes	0.3945439
M52273	phylum	k__Bacteria.p__Spirochaetes	0.35250135
M52273	phylum	k__Bacteria.p__TM6	-0.2430094
M52273	phylum	k__Bacteria.p__TM7	-0.266511
M52276	phylum	k__Archaea.p__Euryarchaeota	0.11331325
M52276	phylum	k__Bacteria.p__Acidobacteria	0.10578788
M52276	phylum	k__Bacteria.p__Actinobacteria	0.0791653
M52276	phylum	k__Bacteria.p__Chloroflexi	0.09161344
M52276	phylum	k__Bacteria.p__Cyanobacteria	-0.080058
M52276	phylum	k__Bacteria.p__Deferribacteres	0.08993012
M52276	phylum	k__Bacteria.p__Firmicutes	0.09308672
M52276	phylum	k__Bacteria.p__Lentisphaerae	0.08438425
M52276	phylum	k__Bacteria.p__Spirochaetes	0.10454565
M52276	phylum	k__Bacteria.p__Tenericutes	0.12087172
M52276	phylum	k__Bacteria.p__Verrucomicrobia	0.17207074
M52278	phylum	k__Bacteria.p__Actinobacteria	-0.1103022
M52278	phylum	k__Bacteria.p__Synergistetes	-0.1096939
M52278	phylum	k__Bacteria.p__Verrucomicrobia	-0.0996896
M52281	phylum	k__Archaea.p__Euryarchaeota	-0.0952149
M52281	phylum	k__Bacteria.p__Synergistetes	-0.1113495
M52281	phylum	k__Bacteria.p__Verrucomicrobia	-0.1203505
M52282	phylum	k__Bacteria.p__Bacteroidetes	0.13323949
M52282	phylum	k__Bacteria.p__Deferribacteres	0.08942168
M52282	phylum	k__Bacteria.p__OD1	0.08680951
M52285	phylum	k__Bacteria.p__Bacteroidetes	-0.1298893
M52285	phylum	k__Bacteria.p__Elusimicrobia	-0.0994684
M52285	phylum	k__Bacteria.p__Planctomycetes	-0.0893421
M52285	phylum	k__Bacteria.p__Verrucomicrobia	-0.0831644
M52286	phylum	k__Archaea.p__Euryarchaeota	-0.2609593
M52286	phylum	k__Bacteria.p__Armatimonadetes	-0.2319221
M52286	phylum	k__Bacteria.p__Bacteroidetes	-0.2142165
M52286	phylum	k__Bacteria.p__Chlamydiae	-0.2124757
M52286	phylum	k__Bacteria.p__Chlorobi	0.36340641
M52286	phylum	k__Bacteria.p__Chloroflexi	-0.1909332
M52286	phylum	k__Bacteria.p__FBP	-0.2261864
M52286	phylum	k__Bacteria.p__Fibrobacteres	0.28887478
M52286	phylum	k__Bacteria.p__GN02	0.23999838
M52286	phylum	k__Bacteria.p__Lentisphaerae	-0.2826483

M52286	phylum	k__Bacteria.p__Nitrospirae	-0.2555185
M52286	phylum	k__Bacteria.p__SR1	0.23852459
M52286	phylum	k__Bacteria.p__Spirochaetes	-0.2087286
M52286	phylum	k__Bacteria.p__Synergistetes	-0.3853657
M52286	phylum	k__Bacteria.p__TM6	0.35337261
M52286	phylum	k__Bacteria.p__Tenericutes	-0.2896175
M52286	phylum	k__Bacteria.p__Verrucomicrobia	-0.2360793
M52289	phylum	k__Bacteria.p__Actinobacteria	-0.3148056
M52289	phylum	k__Bacteria.p__Cyanobacteria	0.21909981
M52289	phylum	k__Bacteria.p__Elusimicrobia	-0.2656437
M52289	phylum	k__Bacteria.p__Verrucomicrobia	-0.4109747
M52294	phylum	k__Bacteria.p__Chlamydiae	-0.0849289
M52294	phylum	k__Bacteria.p__Chloroflexi	-0.1048405
M52294	phylum	k__Bacteria.p__Cyanobacteria	0.08234062
M52294	phylum	k__Bacteria.p__Fusobacteria	-0.0953292
M52294	phylum	k__Bacteria.p__Gemmatimonadetes	-0.0842664
M52294	phylum	k__Bacteria.p__Nitrospirae	-0.0825132
M52294	phylum	k__Bacteria.p__Proteobacteria	-0.1167061
M52294	phylum	k__Bacteria.p__SR1	0.08612902
M52294	phylum	k__Bacteria.p__Synergistetes	-0.0874738
M52294	phylum	k__Bacteria.p__TM6	0.10368126
M52307	phylum	k__Archaea.p__Euryarchaeota	-0.1071206
M52307	phylum	k__Bacteria.p__Verrucomicrobia	-0.1634004
M52315	phylum	k__Bacteria.p__Deferribacteres	-0.2817989
M52315	phylum	k__Bacteria.p__TM7	0.29281021
M52315	phylum	k__Bacteria.p__WS3	0.28431942
M52340	phylum	k__Bacteria.p__Lentisphaerae	-0.0887002
M52340	phylum	k__Bacteria.p__Synergistetes	-0.0985363
M52413	phylum	k__Archaea.p__Crenarchaeota	0.08498296
M52413	phylum	k__Bacteria.p__Acidobacteria	0.09132357
M52413	phylum	k__Bacteria.p__Bacteroidetes	0.18111319
M52413	phylum	k__Bacteria.p__Deferribacteres	0.08572945
M52413	phylum	k__Bacteria.p__Gemmatimonadetes	0.07438702
M52413	phylum	k__Bacteria.p__OD1	0.09715519
M52413	phylum	k__Bacteria.p__Spirochaetes	0.10860467
M52413	phylum	k__Bacteria.p__Verrucomicrobia	-0.078808
M52434	phylum	k__Bacteria.p__Acidobacteria	0.27224078
M52434	phylum	k__Bacteria.p__Actinobacteria	-0.1887701
M52434	phylum	k__Bacteria.p__Bacteroidetes	0.20297926
M52434	phylum	k__Bacteria.p__Deferribacteres	0.37303488
M52434	phylum	k__Bacteria.p__OD1	0.31277002
M52434	phylum	k__Bacteria.p__Planctomycetes	0.25045761
M52434	phylum	k__Bacteria.p__Spirochaetes	0.31629916
M52434	phylum	k__Bacteria.p__WPS.2	-0.197873
M52450	phylum	k__Bacteria.p__Elusimicrobia	-0.2102191
M52453	phylum	k__Bacteria.p__Elusimicrobia	-0.1067299
M52462	phylum	k__Archaea.p__Crenarchaeota	0.2038167
M52462	phylum	k__Bacteria.p__Acidobacteria	0.44919916
M52462	phylum	k__Bacteria.p__Bacteroidetes	0.31648642
M52462	phylum	k__Bacteria.p__Chlorobi	-0.3827487

M52462	phylum	k__Bacteria.p__Chloroflexi	0.25894703
M52462	phylum	k__Bacteria.p__Deferribacteres	0.53941552
M52462	phylum	k__Bacteria.p__Elusimicrobia	-0.3524725
M52462	phylum	k__Bacteria.p__Fibrobacteres	-0.281639
M52462	phylum	k__Bacteria.p__Gemmatimonadetes	0.1969851
M52462	phylum	k__Bacteria.p__OD1	0.47952451
M52462	phylum	k__Bacteria.p__Planctomycetes	0.24735325
M52462	phylum	k__Bacteria.p__Spirochaetes	0.54766995
M52462	phylum	k__Bacteria.p__TM6	-0.4460836
M52462	phylum	k__Bacteria.p__TM7	-0.6459438
M52462	phylum	k__Bacteria.p__Thermi	-0.3916845
M52462	phylum	k__Bacteria.p__WPS.2	-0.3497712
M52462	phylum	k__Bacteria.p__WS3	-0.6397562
M52473	phylum	k__Archaea.p__Crenarchaeota	-0.0981084
M52473	phylum	k__Bacteria.p__Armatimonadetes	-0.089381
M52473	phylum	k__Bacteria.p__Chlorobi	0.09016145
M52473	phylum	k__Bacteria.p__FBP	-0.0923933
M52473	phylum	k__Bacteria.p__Fibrobacteres	0.09267841
M52473	phylum	k__Bacteria.p__GN02	0.09852612
M52473	phylum	k__Bacteria.p__Nitrospirae	-0.0797665
M52473	phylum	k__Bacteria.p__Verrucomicrobia	0.11242132
M52603	phylum	k__Archaea.p__Crenarchaeota	0.35903154
M52603	phylum	k__Bacteria.p__Acidobacteria	0.46542288
M52603	phylum	k__Bacteria.p__Armatimonadetes	0.2739026
M52603	phylum	k__Bacteria.p__Chlorobi	-0.6643968
M52603	phylum	k__Bacteria.p__Chloroflexi	0.33980796
M52603	phylum	k__Bacteria.p__Deferribacteres	0.70930854
M52603	phylum	k__Bacteria.p__Elusimicrobia	-0.4139959
M52603	phylum	k__Bacteria.p__FBP	0.28743715
M52603	phylum	k__Bacteria.p__Fibrobacteres	-0.4729455
M52603	phylum	k__Bacteria.p__Gemmatimonadetes	0.36232317
M52603	phylum	k__Bacteria.p__Nitrospirae	0.35025097
M52603	phylum	k__Bacteria.p__OD1	0.73752796
M52603	phylum	k__Bacteria.p__Planctomycetes	0.46666232
M52603	phylum	k__Bacteria.p__Spirochaetes	0.50849808
M52603	phylum	k__Bacteria.p__TM6	-0.710614
M52603	phylum	k__Bacteria.p__TM7	-0.727665
M52603	phylum	k__Bacteria.p__WS3	-0.742161
M52604	phylum	k__Bacteria.p__Armatimonadetes	-0.0772273
M52604	phylum	k__Bacteria.p__FBP	-0.0767242
M52604	phylum	k__Bacteria.p__Fusobacteria	0.10879571
M52604	phylum	k__Bacteria.p__GN02	0.07913187
M52604	phylum	k__Bacteria.p__Synergistetes	-0.0982934
M52604	phylum	k__Bacteria.p__Tenericutes	-0.0949422
M52604	phylum	k__Bacteria.p__Verrucomicrobia	-0.0990843
M52608	phylum	k__Bacteria.p__Firmicutes	0.09801155
M52608	phylum	k__Bacteria.p__Fusobacteria	0.15095492
M52608	phylum	k__Bacteria.p__Tenericutes	-0.1142788
M52608	phylum	k__Bacteria.p__Verrucomicrobia	-0.1758468
M52634	phylum	k__Bacteria.p__Fibrobacteres	0.0882975

M52637	phylum	k__Bacteria.p__Lentisphaerae	-0.0928578
M52639	phylum	k__Bacteria.p__Caldithrix	-0.0753857
M52639	phylum	k__Bacteria.p__Lentisphaerae	-0.1114756
M52639	phylum	k__Bacteria.p__Synergistetes	-0.146043
M52639	phylum	k__Bacteria.p__Tenericutes	-0.2263338
M52639	phylum	k__Bacteria.p__Verrucomicrobia	-0.132568
M52641	phylum	k__Bacteria.p__Actinobacteria	-0.2180361
M52641	phylum	k__Bacteria.p__Cyanobacteria	0.21246746
M52641	phylum	k__Bacteria.p__TM7	0.22980924
M52641	phylum	k__Bacteria.p__WS3	0.25897242
M52642	phylum	k__Bacteria.p__Firmicutes	0.12892488
M52642	phylum	k__Bacteria.p__Fusobacteria	0.13376648
M52642	phylum	k__Bacteria.p__Proteobacteria	0.08291958
M52642	phylum	k__Bacteria.p__Verrucomicrobia	-0.183521
M52655	phylum	k__Bacteria.p__Bacteroidetes	0.09253132
M52655	phylum	k__Bacteria.p__Planctomycetes	0.09730335
M52661	phylum	k__Bacteria.p__Fusobacteria	0.22614454
M52661	phylum	k__Bacteria.p__SR1	-0.2649276
M52766	phylum	k__Bacteria.p__Tenericutes	0.26097292
M52772	phylum	k__Archaea.p__Euryarchaeota	-0.0836663
M52772	phylum	k__Bacteria.p__Synergistetes	-0.1271061
M52773	phylum	k__Bacteria.p__Fusobacteria	0.19266733
M52773	phylum	k__Bacteria.p__Lentisphaerae	-0.3290775
M52773	phylum	k__Bacteria.p__Tenericutes	-0.2931486
M52773	phylum	k__Bacteria.p__Verrucomicrobia	-0.2541426
M52782	phylum	k__Bacteria.p__Actinobacteria	0.07286007
M52782	phylum	k__Bacteria.p__Lentisphaerae	-0.1467844
M52782	phylum	k__Bacteria.p__Spirochaetes	0.08521129
M52782	phylum	k__Bacteria.p__Synergistetes	-0.093494
M52782	phylum	k__Bacteria.p__Tenericutes	-0.1493852
M52791	phylum	k__Bacteria.p__Firmicutes	0.11122262
M52791	phylum	k__Bacteria.p__Fusobacteria	0.14593218
M52791	phylum	k__Bacteria.p__Proteobacteria	0.092719
M52791	phylum	k__Bacteria.p__Verrucomicrobia	-0.0872397
M52833	phylum	k__Bacteria.p__Chloroflexi	-0.095718
M52850	phylum	k__Bacteria.p__Firmicutes	-0.1092482
M52850	phylum	k__Bacteria.p__Proteobacteria	-0.0867389
M52867	phylum	k__Bacteria.p__Actinobacteria	0.2530571
M52867	phylum	k__Bacteria.p__Elusimicrobia	0.18642177
M52867	phylum	k__Bacteria.p__Lentisphaerae	-0.3841177
M52867	phylum	k__Bacteria.p__Planctomycetes	0.2107122
M52867	phylum	k__Bacteria.p__Tenericutes	-0.7064967
M52867	phylum	k__Bacteria.p__Verrucomicrobia	-0.376456
M52871	phylum	k__Bacteria.p__Elusimicrobia	0.18989383
M52925	phylum	k__Bacteria.p__Verrucomicrobia	0.20305161
M52938	phylum	k__Bacteria.p__Bacteroidetes	-0.1115331
M52938	phylum	k__Bacteria.p__Elusimicrobia	-0.087671
M52938	phylum	k__Bacteria.p__Lentisphaerae	0.10631519
M52938	phylum	k__Bacteria.p__Tenericutes	0.1058734
M52938	phylum	k__Bacteria.p__Verrucomicrobia	0.14265207

M52969	phylum	k__Bacteria.p__Deferribacteres	0.2581738
M52969	phylum	k__Bacteria.p__OD1	0.23963628
M52969	phylum	k__Bacteria.p__Tenericutes	-0.2360298
M52970	phylum	k__Bacteria.p__Tenericutes	-0.2216086
M52975	phylum	k__Bacteria.p__Acidobacteria	0.26866641
M52975	phylum	k__Bacteria.p__Deferribacteres	0.24213643
M52975	phylum	k__Bacteria.p__OD1	0.22019805
M52975	phylum	k__Bacteria.p__Tenericutes	-0.2424718
M52987	phylum	k__Archaea.p__Euryarchaeota	-0.1954701
M52987	phylum	k__Bacteria.p__Actinobacteria	-0.1838341
M52987	phylum	k__Bacteria.p__Synergistetes	-0.2397916
M52987	phylum	k__Bacteria.p__Tenericutes	-0.3483216
M52987	phylum	k__Bacteria.p__Verrucomicrobia	-0.3481981
M53010	phylum	k__Archaea.p__Crenarchaeota	0.22601986
M53010	phylum	k__Bacteria.p__Bacteroidetes	0.29512242
M53010	phylum	k__Bacteria.p__Chlorobi	-0.4192409
M53010	phylum	k__Bacteria.p__Chloroflexi	0.23717042
M53010	phylum	k__Bacteria.p__Deferribacteres	0.44991297
M53010	phylum	k__Bacteria.p__Elusimicrobia	-0.2114943
M53010	phylum	k__Bacteria.p__Nitrospirae	0.22034373
M53010	phylum	k__Bacteria.p__OD1	0.43896005
M53010	phylum	k__Bacteria.p__Planctomycetes	0.25954476
M53010	phylum	k__Bacteria.p__Spirochaetes	0.46194933
M53010	phylum	k__Bacteria.p__TM6	-0.4389371
M53010	phylum	k__Bacteria.p__TM7	-0.5243617
M53010	phylum	k__Bacteria.p__Thermi	-0.2258488
M53010	phylum	k__Bacteria.p__Verrucomicrobia	-0.2678513
M53010	phylum	k__Bacteria.p__WS3	-0.5172331
M53013	phylum	k__Archaea.p__Crenarchaeota	0.19608469
M53013	phylum	k__Bacteria.p__Acidobacteria	0.25514367
M53013	phylum	k__Bacteria.p__Chlorobi	-0.3285855
M53013	phylum	k__Bacteria.p__Deferribacteres	0.39330606
M53013	phylum	k__Bacteria.p__Fibrobacteres	-0.2666485
M53013	phylum	k__Bacteria.p__OD1	0.39271429
M53013	phylum	k__Bacteria.p__Planctomycetes	0.22371686
M53013	phylum	k__Bacteria.p__Spirochaetes	0.30003353
M53013	phylum	k__Bacteria.p__TM6	-0.3039868
M53013	phylum	k__Bacteria.p__TM7	-0.3901689
M53013	phylum	k__Bacteria.p__Thermi	-0.2440253
M53013	phylum	k__Bacteria.p__WPS.2	-0.2989402
M53013	phylum	k__Bacteria.p__WS3	-0.4471091
M53086	phylum	k__Bacteria.p__Elusimicrobia	0.24488278
M53086	phylum	k__Bacteria.p__Fusobacteria	0.30643792
M53086	phylum	k__Bacteria.p__Lentisphaerae	-0.3136038
M53086	phylum	k__Bacteria.p__Proteobacteria	0.26129119
M53086	phylum	k__Bacteria.p__Tenericutes	-0.6603061
M53086	phylum	k__Bacteria.p__Verrucomicrobia	-0.5178235
M53106	phylum	k__Archaea.p__Euryarchaeota	-0.0781542
M53106	phylum	k__Bacteria.p__Actinobacteria	-0.1036675
M53106	phylum	k__Bacteria.p__Fusobacteria	0.08173294

M53106	phylum	k__Bacteria.p__Lentisphaerae	-0.1043339
M53106	phylum	k__Bacteria.p__Tenericutes	-0.156262
M53106	phylum	k__Bacteria.p__Verrucomicrobia	-0.2019693
M53111	phylum	k__Bacteria.p__Lentisphaerae	-0.1199397
M53111	phylum	k__Bacteria.p__Synergistetes	-0.1260659
M53111	phylum	k__Bacteria.p__Verrucomicrobia	-0.0858925
M53114	phylum	k__Archaea.p__Euryarchaeota	-0.1198077
M53114	phylum	k__Bacteria.p__Actinobacteria	-0.0991989
M53114	phylum	k__Bacteria.p__Fusobacteria	0.11548519
M53114	phylum	k__Bacteria.p__Lentisphaerae	-0.1052794
M53114	phylum	k__Bacteria.p__Synergistetes	-0.0898055
M53114	phylum	k__Bacteria.p__Tenericutes	-0.1459064
M53114	phylum	k__Bacteria.p__Verrucomicrobia	-0.2160428
M53121	phylum	k__Bacteria.p__SR1	0.21095345
M53121	phylum	k__Bacteria.p__TM6	0.2203123
M53125	phylum	k__Archaea.p__Crenarchaeota	-0.0857972
M53125	phylum	k__Archaea.p__Euryarchaeota	-0.1620124
M53125	phylum	k__Bacteria.p__Armatimonadetes	-0.0988693
M53125	phylum	k__Bacteria.p__Caldithrix	-0.1041711
M53125	phylum	k__Bacteria.p__Chlamydiae	-0.0975031
M53125	phylum	k__Bacteria.p__FBP	-0.0953506
M53125	phylum	k__Bacteria.p__Firmicutes	0.08408608
M53125	phylum	k__Bacteria.p__GN02	0.09339081
M53125	phylum	k__Bacteria.p__Lentisphaerae	-0.1607592
M53125	phylum	k__Bacteria.p__Nitrospirae	-0.1056265
M53125	phylum	k__Bacteria.p__Planctomycetes	-0.0924073
M53125	phylum	k__Bacteria.p__Proteobacteria	-0.1143049
M53125	phylum	k__Bacteria.p__Synergistetes	-0.1371575
M53125	phylum	k__Bacteria.p__Verrucomicrobia	-0.1388525
M53127	phylum	k__Bacteria.p__WPS.2	0.10035938
M53156	phylum	k__Bacteria.p__Deferribacteres	-0.1955036
M53156	phylum	k__Bacteria.p__Verrucomicrobia	0.18080531
M53158	phylum	k__Bacteria.p__Elusimicrobia	0.09019615
M53158	phylum	k__Bacteria.p__Gemmatimonadetes	0.11073226
M53158	phylum	k__Bacteria.p__Planctomycetes	0.09559623
M53158	phylum	k__Bacteria.p__TM7	0.09886037
M53158	phylum	k__Bacteria.p__WS3	0.09625917
M53165	phylum	k__Archaea.p__Euryarchaeota	-0.2163621
M53165	phylum	k__Bacteria.p__Actinobacteria	-0.3220421
M53165	phylum	k__Bacteria.p__Armatimonadetes	-0.1797731
M53165	phylum	k__Bacteria.p__Caldithrix	-0.2236974
M53165	phylum	k__Bacteria.p__Chlamydiae	-0.1852665
M53165	phylum	k__Bacteria.p__FBP	-0.1751949
M53165	phylum	k__Bacteria.p__Firmicutes	-0.2529654
M53165	phylum	k__Bacteria.p__GN02	0.18411048
M53165	phylum	k__Bacteria.p__Nitrospirae	-0.1743516
M53165	phylum	k__Bacteria.p__Verrucomicrobia	-0.2734091
M53165	phylum	k__Bacteria.p__WPS.2	-0.1992001
M53165	phylum	k__Bacteria.p__WS3	-0.1969587
M53172	phylum	k__Archaea.p__Euryarchaeota	-0.324099

M53172	phylum	k__Bacteria.p__Armatimonadetes	-0.2079457
M53172	phylum	k__Bacteria.p__Caldithrix	-0.1679836
M53172	phylum	k__Bacteria.p__Chlamydiae	-0.2347326
M53172	phylum	k__Bacteria.p__Chlorobi	0.19403692
M53172	phylum	k__Bacteria.p__Elusimicrobia	-0.1728545
M53172	phylum	k__Bacteria.p__FBP	-0.2077208
M53172	phylum	k__Bacteria.p__Fibrobacteres	0.18051239
M53172	phylum	k__Bacteria.p__GN02	0.22013556
M53172	phylum	k__Bacteria.p__Lentisphaerae	-0.2597252
M53172	phylum	k__Bacteria.p__Nitrospirae	-0.2047578
M53172	phylum	k__Bacteria.p__Proteobacteria	-0.2603516
M53172	phylum	k__Bacteria.p__Synergistetes	-0.290925
M53172	phylum	k__Bacteria.p__TM6	0.2161681
M53172	phylum	k__Bacteria.p__Thermi	-0.190542
M53176	phylum	k__Bacteria.p__Acidobacteria	0.23788778
M53176	phylum	k__Bacteria.p__Bacteroidetes	0.34780193
M53176	phylum	k__Bacteria.p__OD1	0.20242369
M53176	phylum	k__Bacteria.p__Spirochaetes	0.25179632
M53176	phylum	k__Bacteria.p__TM6	-0.2254927
M53176	phylum	k__Bacteria.p__TM7	-0.2422411
M53176	phylum	k__Bacteria.p__Thermi	-0.2049818
M53176	phylum	k__Bacteria.p__WS3	-0.2718747
M53214	phylum	k__Bacteria.p__Actinobacteria	-0.2998308
M53214	phylum	k__Bacteria.p__Fibrobacteres	0.17665324
M53214	phylum	k__Bacteria.p__Nitrospirae	-0.1636891
M53214	phylum	k__Bacteria.p__Synergistetes	-0.1924033
M53214	phylum	k__Bacteria.p__TM6	0.17468435
M53214	phylum	k__Bacteria.p__Verrucomicrobia	-0.1985845
M53215	phylum	k__Bacteria.p__Deferribacteres	-0.106797
M53215	phylum	k__Bacteria.p__Fusobacteria	0.11572404
M53215	phylum	k__Bacteria.p__Tenericutes	-0.1659569
M53215	phylum	k__Bacteria.p__Verrucomicrobia	-0.243078
M53229	phylum	k__Bacteria.p__Acidobacteria	0.17696024
M53229	phylum	k__Bacteria.p__Actinobacteria	-0.1756523
M53229	phylum	k__Bacteria.p__Lentisphaerae	0.20491995
M53229	phylum	k__Bacteria.p__TM6	0.17657278
M53229	phylum	k__Bacteria.p__Thermi	-0.1811769
M53229	phylum	k__Bacteria.p__Verrucomicrobia	-0.2022834
M53230	phylum	k__Bacteria.p__Fusobacteria	0.29812593
M53230	phylum	k__Bacteria.p__Lentisphaerae	-0.3858228
M53230	phylum	k__Bacteria.p__Synergistetes	-0.249042
M53230	phylum	k__Bacteria.p__Tenericutes	-0.3862516
M53230	phylum	k__Bacteria.p__Verrucomicrobia	-0.5087746
M53231	phylum	k__Archaea.p__Euryarchaeota	-0.0794912
M53231	phylum	k__Bacteria.p__Lentisphaerae	-0.1139383
M53231	phylum	k__Bacteria.p__Synergistetes	-0.1301981
M53231	phylum	k__Bacteria.p__Tenericutes	-0.1499957
M53231	phylum	k__Bacteria.p__Verrucomicrobia	-0.096977
M53232	phylum	k__Archaea.p__Crenarchaeota	-0.2881282
M53232	phylum	k__Bacteria.p__Acidobacteria	-0.2945928

M53232	phylum	k__Bacteria.p__Chlorobi	0.32166024
M53232	phylum	k__Bacteria.p__Chloroflexi	-0.3062453
M53232	phylum	k__Bacteria.p__Deferribacteres	-0.611536
M53232	phylum	k__Bacteria.p__Gemmatimonadetes	-0.2443261
M53232	phylum	k__Bacteria.p__OD1	-0.4865733
M53232	phylum	k__Bacteria.p__Spirochaetes	-0.4345378
M53232	phylum	k__Bacteria.p__TM7	0.27509966
M53237	phylum	k__Bacteria.p__Cyanobacteria	0.08321504
M53237	phylum	k__Bacteria.p__Proteobacteria	-0.1117834
M53237	phylum	k__Bacteria.p__Synergistetes	-0.1176981
M53237	phylum	k__Bacteria.p__Tenericutes	-0.1243375
M53237	phylum	k__Bacteria.p__Verrucomicrobia	-0.1131466
M54676	phylum	k__Bacteria.p__Elusimicrobia	0.09007192
M54676	phylum	k__Bacteria.p__Verrucomicrobia	0.14854741
M54687	phylum	k__Bacteria.p__Cyanobacteria	0.09984085
M54687	phylum	k__Bacteria.p__Deferribacteres	0.08571273
M54687	phylum	k__Bacteria.p__Firmicutes	0.14044396
M54687	phylum	k__Bacteria.p__Fusobacteria	0.11520322
M54687	phylum	k__Bacteria.p__Tenericutes	-0.1096289
M54687	phylum	k__Bacteria.p__Verrucomicrobia	-0.1968755
M54687	phylum	k__Bacteria.p__WPS.2	0.09606231
M54704	phylum	k__Bacteria.p__Lentisphaerae	-0.1227955
M54704	phylum	k__Bacteria.p__Synergistetes	-0.0923791
M54704	phylum	k__Bacteria.p__Tenericutes	-0.1973094
M54704	phylum	k__Bacteria.p__Verrucomicrobia	-0.1188783
M54723	phylum	k__Bacteria.p__Cyanobacteria	0.08094955
M54723	phylum	k__Bacteria.p__Synergistetes	0.08061106
M54831	phylum	k__Bacteria.p__Actinobacteria	-0.0940328
M54831	phylum	k__Bacteria.p__Fusobacteria	0.16235458
M54832	phylum	k__Bacteria.p__Proteobacteria	-0.0843767
M54834	phylum	k__Bacteria.p__Actinobacteria	-0.1024481
M54834	phylum	k__Bacteria.p__Fusobacteria	0.15887444
M54837	phylum	k__Bacteria.p__Lentisphaerae	-0.1999972
M54837	phylum	k__Bacteria.p__Verrucomicrobia	-0.2144901
M54838	phylum	k__Archaea.p__Euryarchaeota	-0.2592024
M54838	phylum	k__Bacteria.p__Actinobacteria	-0.2197181
M54838	phylum	k__Bacteria.p__Verrucomicrobia	-0.1974629
M54839	phylum	k__Bacteria.p__Firmicutes	-0.105483
M54839	phylum	k__Bacteria.p__Fusobacteria	-0.1413042
M54841	phylum	k__Bacteria.p__Elusimicrobia	0.08454505
M54857	phylum	k__Archaea.p__Euryarchaeota	0.10284058
M54857	phylum	k__Bacteria.p__Armatimonadetes	0.08955342
M54857	phylum	k__Bacteria.p__Caldithrix	0.11161871
M54857	phylum	k__Bacteria.p__Chlamydiae	0.09671058
M54857	phylum	k__Bacteria.p__Cyanobacteria	0.08319511
M54857	phylum	k__Bacteria.p__FBP	0.08554403
M54857	phylum	k__Bacteria.p__GN02	-0.0822301
M54857	phylum	k__Bacteria.p__Gemmatimonadetes	0.09461954
M54857	phylum	k__Bacteria.p__Nitrospirae	0.09661912
M54857	phylum	k__Bacteria.p__OD1	0.11190924

M54857	phylum	k__Bacteria.p__Planctomycetes	0.08502782
M54857	phylum	k__Bacteria.p__TM7	0.10125683
M54857	phylum	k__Bacteria.p__Verrucomicrobia	0.12481558
M54857	phylum	k__Bacteria.p__WS3	0.1074082
M54859	phylum	k__Archaea.p__Euryarchaeota	-0.0805855
M54859	phylum	k__Bacteria.p__Synergistetes	-0.0860199
M54859	phylum	k__Bacteria.p__Tenericutes	-0.1107521
M54859	phylum	k__Bacteria.p__Verrucomicrobia	-0.1051799
M54860	phylum	k__Archaea.p__Crenarchaeota	-0.0822216
M54860	phylum	k__Archaea.p__Euryarchaeota	-0.0862809
M54860	phylum	k__Bacteria.p__Lentisphaerae	-0.1083617
M54860	phylum	k__Bacteria.p__Spirochaetes	-0.0900165
M54860	phylum	k__Bacteria.p__Synergistetes	-0.0901131
M54860	phylum	k__Bacteria.p__Tenericutes	-0.1188234
M54860	phylum	k__Bacteria.p__Verrucomicrobia	-0.1418948
M54881	phylum	k__Archaea.p__Euryarchaeota	-0.1832409
M54881	phylum	k__Bacteria.p__Lentisphaerae	-0.2391338
M54881	phylum	k__Bacteria.p__Synergistetes	-0.2725942
M54881	phylum	k__Bacteria.p__Tenericutes	-0.2963065
M54882	phylum	k__Bacteria.p__Firmicutes	0.20079825
M54882	phylum	k__Bacteria.p__Lentisphaerae	-0.3091617
M54882	phylum	k__Bacteria.p__Synergistetes	-0.2026699
M54882	phylum	k__Bacteria.p__Tenericutes	-0.3508594
M54882	phylum	k__Bacteria.p__Verrucomicrobia	-0.2536393
M54883	phylum	k__Bacteria.p__Caldithrix	0.08312687
M54883	phylum	k__Bacteria.p__Cyanobacteria	0.0842248
M54883	phylum	k__Bacteria.p__TM7	0.09227943
M54883	phylum	k__Bacteria.p__Verrucomicrobia	0.09552594
M54883	phylum	k__Bacteria.p__WS3	0.09243608
M54887	phylum	k__Archaea.p__Crenarchaeota	0.29494612
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M54887	phylum	k__Bacteria.p__Planctomycetes	0.33354046
M54887	phylum	k__Bacteria.p__Spirochaetes	0.54499143
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M54899	phylum	k__Bacteria.p__Verrucomicrobia	-0.207463
M54899	phylum	k__Bacteria.p__WS3	-0.2263034
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M54901	phylum	k__Bacteria.p__Verrucomicrobia	-0.1860086
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0.0363654	3.27E-05	**
0.03700744	4.23E-04	**
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0.0394696	1.06E-03	**
0.03503891	1.27E-14	***
0.03798882	3.86E-03	**
0.0373554	1.33E-05	**
0.04096971	6.94E-07	**
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0.0373868	2.81E-02	*
0.03758591	7.62E-10	***
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0.03760753	7.96E-04	**
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0.0423215	7.56E-19	***
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0.03778275	5.43E-05	**
0.0370037	1.11E-03	**
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0.03907982	3.09E-07	**
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0.03790443	5.60E-06	**
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0.03854302	1.02E-07	**

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0.03817729	2.49E-03	**
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0.03834264	4.37E-04	**
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0.0390612	2.17E-02	*
0.03890336	4.54E-02	*
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0.03944718	2.58E-06	**

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0.03614373	1.79E-02	*
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0.03536638	3.43E-08	***
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0.03867694	1.03E-03	**
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0.03796071	3.59E-05	**
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0.0398902	2.07E-04	**
0.03862986	2.70E-04	**
0.03840501	7.11E-03	*
0.0426652	4.21E-18	***
0.03809344	1.67E-06	**
0.03795117	8.21E-03	*
0.04383346	4.25E-02	*
0.03836428	1.31E-02	*

0.03872655	9.67E-05	**
0.03813918	7.91E-04	**
0.04137394	7.47E-05	**
0.04027396	9.10E-03	*
0.03877231	1.46E-05	**
0.03668834	1.30E-18	***
0.03754173	8.05E-07	**
0.03884804	1.83E-02	*
0.03885638	1.43E-05	**
0.03896577	1.01E-02	*
0.03845091	3.18E-07	**
0.03865724	1.02E-02	*
0.04076371	1.39E-04	**
0.03793714	1.93E-03	**
0.03811382	5.47E-04	**
0.03846674	1.73E-02	*
0.03864441	4.68E-02	*
0.03844665	3.17E-02	*
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0.03814506	2.02E-02	*
0.03893843	1.63E-08	***
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0.03813885	5.07E-03	*
0.03953378	3.20E-02	*
0.0430864	1.47E-04	**
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0.03947525	1.03E-04	**
0.03791485	4.54E-03	*
0.03816488	5.93E-04	**
0.04029173	4.67E-04	**
0.03850173	1.12E-02	*
0.03832638	1.53E-03	**
0.0395926	2.17E-03	**
0.03972704	4.23E-04	**
0.0396235	1.18E-03	**
0.03925598	4.13E-05	**
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0.04402923	2.07E-07	**
0.04018652	3.05E-12	***
0.03882208	3.07E-02	*
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0.03956203	3.73E-02	*
0.04029635	1.33E-09	***
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0.03978885	2.61E-03	**
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0.03975241	3.37E-04	**
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0.03700686	4.65E-10	***
0.0394582	5.88E-03	*
0.0393305	1.91E-04	**
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0.03868978	3.60E-03	**
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0.03942869	5.55E-08	***
0.03943026	5.80E-03	*
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0.03935876	1.56E-09	***
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0.03926366	3.14E-06	**
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0.03914311	2.75E-03	**
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0.09788139	2.10E-02	*
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0.09934256	4.15E-05	**
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0.09572255	1.34E-03	**
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0.0977278	2.14E-03	**
0.09822177	2.76E-03	**
0.10265806	8.03E-07	**
0.10165899	1.58E-03	**
0.09395542	3.75E-03	**

0.09853928	1.95E-03	**
0.09825085	1.68E-02	*
0.09734884	1.83E-02	*
0.10020218	2.01E-04	**
0.09621375	1.49E-03	**
0.09892412	3.08E-03	**
0.09341348	3.27E-02	*
0.12127504	2.75E-05	**
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0.10468966	2.39E-06	**
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0.09690079	1.57E-02	*
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0.10823145	1.21E-02	*
0.09540896	6.58E-04	**
0.09622807	6.19E-03	*
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0.09851616	1.12E-03	**
0.1042639	3.24E-05	**
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0.10463537	1.41E-04	**
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0.03623545	1.37E-13	***
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0.03779715	5.63E-04	**
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0.03732912	4.22E-02	*
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0.03734377	1.81E-02	*
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0.0382612	7.03E-08	***
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0.04117939	1.32E-02	*

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0.03893268	3.57E-03	**
0.04021721	1.10E-07	**
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0.03886447	3.00E-04	**
0.03991742	4.31E-02	*
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0.04034746	2.73E-02	*
0.04008617	1.23E-02	*
0.04320056	2.90E-02	*
0.04049189	4.13E-02	*
0.03981717	3.74E-02	*
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0.03877897	8.09E-09	***
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0.0405475	4.83E-05	**
0.04173415	2.81E-02	*
0.04057707	3.22E-03	**
0.04543547	8.24E-04	**
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0.03872053	1.13E-04	**
0.04149309	1.33E-03	**
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0.0389204	2.52E-02	*
0.0406038	1.66E-03	**
0.04188416	3.76E-03	**
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0.03894078	1.47E-02	*
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0.04107879	4.04E-02	*
0.04182343	1.64E-02	*
0.0384046	1.78E-05	**
0.04247377	1.11E-02	*
0.04337122	8.29E-04	**
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0.04096286	1.73E-02	*
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0.03913166	1.91E-02	*

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0.03749664	1.63E-03	**

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0.03713806	8.44E-03	*
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0.0367116	2.31E-04	**
0.03922505	6.22E-04	**
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0.03672068	4.24E-02	*
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0.03705573	6.33E-04	**
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0.03822636	1.42E-03	**
0.03810027	3.16E-02	*
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0.03822683	3.59E-03	**

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0.04153863	1.36E-02	*
0.04393474	4.05E-02	*
0.04104947	3.04E-02	*
0.04058132	7.79E-03	*
0.0413209	4.30E-02	*
0.04062124	9.22E-03	*
0.0400485	1.27E-04	**
0.04201146	4.74E-02	*
0.04044884	3.37E-02	*
0.04118672	4.38E-02	*
0.04224366	7.55E-04	**
0.04090257	4.87E-05	**
0.04081639	5.11E-03	*
0.04004187	1.40E-04	**
0.04789475	3.54E-06	**
0.04138606	9.37E-04	**
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0.03958929	1.22E-02	*
0.04135022	6.07E-04	**
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0.04392817	4.53E-02	*
0.04057367	3.72E-05	**
0.04111631	5.35E-06	**
0.04403205	4.01E-02	*
0.04095665	9.58E-03	*
0.0405627	1.70E-04	**
0.04043927	2.61E-03	**
0.04210393	3.21E-02	*
0.04120332	2.12E-04	**
0.04405083	1.80E-03	**
0.04015116	6.93E-04	**
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0.04179676	4.21E-03	*
0.04047854	2.74E-02	*
0.04032741	2.65E-02	*
0.04029285	3.00E-03	**
0.04085143	1.83E-04	**
0.04301111	2.55E-03	**
0.04068214	9.29E-03	*
0.04052697	4.87E-04	**
0.04024889	4.98E-02	*
0.03989272	6.97E-06	**
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0.0417906	3.33E-02	*
0.04250745	2.50E-02	*
0.04083892	1.72E-03	**
0.04675886	9.56E-04	**
0.04291519	1.47E-09	***
0.04193474	7.68E-04	**

0.04073934	1.85E-04	**
0.04444944	5.89E-06	**
0.04122343	1.22E-03	**
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0.04140054	2.58E-02	*
0.04292013	2.47E-02	*
0.04008882	1.26E-02	*
0.04085567	4.47E-02	*
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0.0411455	1.78E-03	**
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0.0423968	1.15E-02	*
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0.04071295	1.06E-02	*
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0.04580292	7.12E-03	*
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0.04286772	1.81E-02	*
0.04208346	2.10E-03	**
0.04791398	8.40E-03	*
0.04052476	4.11E-02	*
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0.04154126	2.43E-03	**
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0.04074291	1.38E-02	*
0.04039023	1.34E-03	**
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0.04196184	3.10E-09	***

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0.04462182	3.76E-02	*
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0.04029837	1.30E-03	**
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0.04355281	4.08E-02	*
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0.03920679	3.30E-02	*
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0.03886357	8.04E-04	**
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0.0394255	1.56E-03	**
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0.03875761	6.03E-08	***
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0.03860676	2.83E-04	**
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0.03983105	2.56E-03	**
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0.03902615	3.34E-04	**
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0.03868978	1.01E-03	**
0.03864262	1.20E-06	**

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0.04289926	4.08E-02	*
0.04260605	3.43E-04	**
0.04193634	1.53E-02	*
0.04368464	2.78E-02	*
0.0431179	3.89E-02	*
0.04252426	3.77E-07	**
0.04415816	2.34E-04	**
0.04269148	2.63E-02	*
0.04174943	3.46E-02	*
0.04298034	2.70E-02	*
0.04345561	8.96E-03	*
0.04295747	7.19E-03	*
0.04485108	1.56E-03	**
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0.04577229	2.49E-02	*
0.04324423	1.43E-04	**
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0.04217178	2.20E-02	*
0.04539555	1.11E-02	*
0.04378429	7.98E-08	***
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0.04456031	1.46E-05	**
0.04653439	5.05E-05	**
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0.04355969	1.64E-02	*
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0.04389593	2.31E-03	**
0.04205174	5.70E-04	**
0.04704558	7.04E-04	**
0.04233385	1.50E-03	**
0.04186114	2.46E-05	**
0.04132283	5.20E-04	**
0.04258009	1.38E-05	**
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0.04271071	2.02E-03	**
0.04217834	3.13E-05	**
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0.04464028	1.64E-06	**
0.04713216	4.10E-03	*
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0.04314194	3.12E-02	*
0.04502635	3.48E-04	**

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0.0454038	3.83E-03	**
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0.04394564	8.28E-03	*
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0.04236366	5.98E-06	**
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0.04320579	2.24E-03	**
0.04248323	4.27E-03	*
0.04230306	1.62E-03	**
0.04558561	3.90E-03	**
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0.04447039	6.46E-04	**
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0.04297367	4.04E-02	*
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0.04122524	1.88E-08	***

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0.04098064	6.58E-06	**
0.04104539	2.13E-09	***
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0.04053139	6.10E-07	**
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0.04122971	1.48E-07	**
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0.03935662	5.81E-17	***
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0.04048224	3.30E-05	**
0.04193134	2.97E-04	**

0.04192204	6.52E-04	**
0.04123881	1.11E-05	**
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0.04082026	3.32E-06	**
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0.0459172	1.60E-03	**
0.04175382	3.17E-03	**
0.04012939	9.09E-08	***
0.04274598	1.31E-04	**
0.04013811	8.38E-09	***
0.04112687	3.23E-05	**
0.04002739	9.76E-06	**
0.04162627	8.63E-07	**
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0.04107003	1.06E-02	*
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0.04114028	8.06E-04	**
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0.03972726	2.36E-03	**
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0.04385481	1.57E-04	**
0.04158017	2.13E-03	**
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0.04229781	7.67E-05	**
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0.04405686	5.22E-05	**
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0.04305473	1.46E-03	**
0.0391551	2.08E-07	**

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0.04080746	1.24E-03	**
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0.04056553	7.65E-08	***
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0.03704177	2.74E-02	*
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0.03940236	4.22E-02	*
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0.03866544	4.20E-02	*
0.0386281	1.31E-03	**
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0.04014382	2.61E-02	*
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0.04036661	6.98E-03	*
0.03994064	8.95E-04	**
0.04425203	8.22E-07	**
0.03875409	3.83E-03	**
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0.03762247	1.67E-08	***
0.0430272	3.21E-02	*
0.03836521	1.11E-02	*
0.03931547	1.08E-04	**
0.04085968	3.91E-02	*
0.03951246	2.07E-02	*
0.03821312	4.28E-02	*
0.03808894	3.29E-04	**
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0.04131282	1.16E-02	*
0.03812417	7.38E-06	**
0.04132406	3.29E-02	*
0.04089743	1.82E-04	**
0.03792649	2.40E-04	**
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0.04266786	4.23E-04	**
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0.03911947	4.80E-10	***
0.04282402	1.08E-03	**
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0.03943344	2.17E-03	**
0.0383702	8.68E-03	*
0.03837867	2.84E-05	**
0.03895733	4.37E-02	*

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0.04154787	3.63E-06	**
0.04027234	6.17E-05	**
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0.03795565	1.31E-06	**
0.03968642	8.32E-04	**
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0.03979794	4.99E-03	*
0.03899191	7.18E-03	*
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0.03957579	3.49E-03	**
0.03943165	7.09E-05	**
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0.03943942	1.06E-03	**
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0.04240782	2.38E-02	*

0.04230872	2.06E-02	*
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0.03950322	5.06E-06	**
0.04404138	2.76E-09	***
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0.03933679	1.82E-03	**
0.03791639	1.35E-05	**

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0.03834139	2.11E-04	**
0.03844271	1.57E-03	**
0.04130067	3.21E-03	**
0.04058732	1.44E-06	**
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0.03944424	5.62E-08	***
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0.03824732	1.93E-03	**
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0.03701509	1.10E-04	**
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0.0416545	5.93E-08	***
0.03857815	6.24E-11	***
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0.03826954	2.56E-03	**
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0.03931466	3.71E-03	**
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0.10923196	2.61E-03	**
0.10570358	2.04E-02	*
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0.10808149	3.55E-03	**
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0.10568939	2.91E-02	*
0.11319361	2.29E-02	*
0.10476384	3.54E-02	*
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0.12421246	1.97E-02	*
0.10901694	1.29E-02	*
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0.11227617	4.71E-02	*
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0.10597403	1.41E-02	*

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0.09358355	5.34E-04	**
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0.09273638	3.22E-04	**
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0.09573908	7.34E-06	**
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0.04077065	2.32E-03	**
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0.03956522	6.70E-04	**
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0.11091137	1.02E-04	**
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0.10623183	2.83E-03	**
0.1037806	9.50E-03	*
0.10857449	9.48E-03	*
0.10496177	9.72E-04	**
0.10549742	3.29E-02	*
0.10576595	8.41E-03	*
0.10570336	1.41E-02	*
0.10702844	1.74E-02	*
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0.10960601	2.52E-04	**

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0.11967714	1.04E-03	**
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0.10739848	7.24E-03	*
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0.1069952	1.60E-06	**
0.10618757	5.00E-05	**
0.10591654	1.76E-06	**
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0.10265652	1.00E-02	*
0.10456377	3.44E-02	*
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0.12275896	5.09E-08	***
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0.04022764	6.74E-03	*
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0.03967465	3.83E-04	**
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0.0406533	2.12E-02	*
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0.03955641	4.36E-03	*
0.04015098	3.37E-03	**
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0.04029436	2.11E-02	*

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0.03956312	3.09E-02	*
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0.0864172	8.03E-03	*
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0.0836404	1.15E-02	*
0.08475694	1.67E-02	*
0.08351465	1.64E-02	*
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0.08411943	1.21E-02	*
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0.03981294	3.73E-03	**
0.03908971	1.98E-03	**
0.03911779	8.43E-03	*
0.03971991	4.74E-06	**
0.04070131	2.10E-03	**
0.03903467	6.49E-04	**
0.04243069	5.65E-04	**
0.04093695	1.30E-03	**
0.03964887	4.86E-03	*
0.03855432	1.35E-05	**
0.04011461	1.21E-02	*
0.03984687	9.38E-08	***
0.0380577	2.91E-02	*
0.03847247	4.81E-02	*
0.0384054	4.23E-02	*
0.03875191	2.14E-02	*
0.03889406	3.57E-03	**
0.04043915	7.81E-03	*
0.04036226	4.92E-02	*
0.03896769	4.33E-02	*
0.03848099	6.10E-04	**
0.04007776	2.45E-03	**
0.04185057	2.71E-02	*

0.03862226	4.46E-03	*
0.03960127	8.15E-03	*
0.03869299	1.09E-02	*
0.03992733	5.35E-06	**
0.04018315	1.33E-03	**
0.03966288	3.10E-06	**
0.03939499	2.41E-03	**
0.03938326	1.74E-02	*
0.03849387	7.11E-05	**
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0.11943634	2.68E-02	*
0.13306734	1.72E-02	*
0.11905967	7.65E-03	*
0.11885899	4.93E-03	*
0.11264563	2.51E-02	*
0.11364727	1.73E-02	*
0.1148322	9.51E-03	*
0.11509715	4.59E-02	*
0.12321334	1.49E-02	*
0.11588284	1.09E-02	*
0.12505223	2.09E-03	**
0.12002444	4.13E-03	*
0.12061024	3.87E-02	*
0.11846618	3.92E-02	*
0.12043113	2.35E-02	*
0.12051361	2.45E-02	*
0.11919974	8.92E-03	*
0.11344727	1.30E-02	*
0.13765008	7.74E-03	*
0.11386748	3.28E-02	*
0.11453631	1.08E-02	*
0.11130443	4.86E-02	*
0.11400704	9.06E-03	*
0.11628478	3.55E-02	*
0.13236537	6.95E-04	**
0.11710095	4.80E-02	*
0.11504233	2.33E-02	*
0.11677047	1.84E-03	**
0.12039693	6.00E-03	*
0.12602519	8.13E-03	*
0.13464014	4.47E-04	**
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0.11890706	8.69E-04	**
0.1293515	2.73E-04	**
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0.12362521	1.01E-03	**
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0.11383407	7.58E-03	*
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0.13027852	1.12E-02	*
0.11880146	3.40E-03	**
0.11623526	3.15E-02	*
0.11678155	1.85E-02	*
0.12832108	4.30E-02	*
0.11574445	4.95E-03	*
0.11758436	3.88E-02	*
0.13680445	6.48E-04	**
0.12600224	1.91E-02	*
0.11638823	3.05E-02	*
0.11211205	4.05E-02	*
0.11452313	2.11E-02	*
0.1152611	1.34E-02	*
0.11412124	1.70E-02	*
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0.044231	2.55E-07	**
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0.04115259	6.40E-03	*
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0.0406293	3.94E-02	*
0.04135207	7.43E-04	**
0.03990717	1.36E-05	**
0.04182559	2.14E-02	*
0.04042032	2.18E-02	*
0.04670889	4.52E-02	*
0.03985776	2.56E-02	*
0.03981517	1.60E-03	**
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0.04089241	1.08E-03	**
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0.04009478	3.65E-02	*
0.04262586	1.66E-02	*
0.03916233	2.75E-05	**
0.04037041	2.41E-02	*
0.03974899	6.38E-03	*
0.042492	2.57E-04	**

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0.03995012	2.03E-03	**
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0.04122989	1.41E-02	*
0.04029018	3.36E-02	*
0.04440251	3.09E-04	**
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0.0397747	1.27E-02	*
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0.03902714	3.06E-06	**
0.04639965	6.47E-04	**
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0.0404599	4.31E-02	*
0.04051806	2.01E-02	*
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0.0392482	7.88E-05	**
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0.03991657	2.96E-04	**
0.0408094	1.13E-02	*
0.04058492	2.48E-02	*
0.04384041	2.09E-02	*
0.03979278	3.00E-04	**
0.04065923	5.19E-03	*
0.04130439	4.86E-05	**
0.04007741	2.97E-04	**
0.04146569	1.44E-02	*
0.03970183	2.00E-04	**
0.04079612	1.15E-02	*
0.04194673	3.26E-03	**
0.0395882	1.50E-03	**
0.04131104	5.60E-04	**
0.03958615	4.43E-07	**
0.04324051	2.05E-03	**
0.03989772	9.52E-03	*
0.03967974	1.98E-03	**
0.04285766	3.31E-02	*
0.04242968	3.13E-02	*
0.04238755	5.02E-04	**
0.04478898	4.59E-03	*
0.0405387	1.31E-02	*
0.03971088	1.57E-02	*
0.03948388	1.59E-02	*

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0.04174772	1.39E-02	*
0.03976202	4.71E-02	*
0.04352893	3.17E-02	*
0.04112749	1.73E-04	**
0.03953989	2.53E-04	**
0.04020019	3.04E-02	*
0.03975714	7.67E-03	*
0.04098572	1.40E-02	*
0.04002689	1.10E-03	**
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0.03990013	2.82E-02	*
0.04026263	1.14E-02	*
0.0433975	1.78E-04	**
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0.04319224	1.06E-02	*
0.04123283	2.76E-03	**
0.04152306	4.94E-02	*
0.04116734	2.84E-03	**
0.03982969	1.21E-02	*
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0.03964766	2.16E-03	**
0.03977465	8.36E-07	**
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0.04187505	3.08E-05	**
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0.04108033	1.32E-02	*
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0.04011139	1.49E-02	*
0.0409643	3.99E-02	*
0.03967312	3.69E-02	*
0.04079902	1.35E-02	*
0.04412731	4.73E-02	*
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0.03978662	1.21E-03	**
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0.03842024	2.42E-08	***
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0.03975319	6.38E-04	**
0.03916944	3.28E-05	**
0.04008538	3.10E-02	*
0.03928023	3.95E-02	*
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0.0404536	7.67E-04	**
0.03878558	1.14E-08	***
0.03827209	9.80E-08	**
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0.03977467	3.16E-03	**

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0.03910542	2.33E-03	**
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0.03882107	8.62E-05	**
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0.03943383	1.97E-02	*
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0.04021003	1.53E-03	**
0.04194185	4.57E-06	**
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0.0393106	3.14E-02	*
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0.03986654	1.49E-06	**
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0.03982383	3.20E-04	**
0.0393126	4.38E-03	*
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0.03923232	1.16E-03	**
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0.04095935	4.51E-02	*
0.03898749	1.52E-04	**
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0.03939099	2.42E-03	**
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0.03907482	1.81E-06	**
0.0396456	8.03E-03	*
0.0437267	4.26E-02	*

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0.04167571	8.46E-06	**
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0.03804576	1.39E-12	***
0.04054712	1.24E-04	**
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0.04061632	2.03E-03	**
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0.03947442	9.20E-05	**
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0.03918301	2.96E-03	**
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0.0396623	4.52E-02	*
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0.03915167	3.71E-03	**
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0.04049302	2.15E-03	**
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0.03915075	3.49E-04	**
0.03935893	1.98E-02	*

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0.03924081	1.71E-03	**
0.03950524	8.85E-04	**
0.03940461	2.53E-04	**
0.03947875	8.79E-06	**
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0.0393695	4.99E-02	*
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0.03981942	1.04E-02	*
0.03907939	8.39E-03	*
0.03942253	1.60E-03	**
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0.04113615	4.78E-02	*
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0.04066195	3.54E-07	**
0.04041016	6.45E-04	**
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0.04001892	1.11E-05	**
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0.03941027	1.96E-02	*
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0.03907463	5.31E-03	*
0.03736175	7.84E-11	***
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0.04113132	1.25E-02	*
0.03828516	2.32E-02	*
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0.03892329	1.51E-02	*

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0.03918045	1.20E-02	*
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0.03876263	2.26E-02	*
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0.03821491	2.66E-03	**
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0.03930005	1.15E-03	**
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0.03820541	1.87E-02	*
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0.03874417	1.29E-02	*
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0.03812989	2.42E-02	*
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0.0390666	6.71E-03	*

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0.03890145	3.70E-04	**
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0.03982556	3.14E-03	**
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0.03881805	1.89E-05	**
0.03887815	8.69E-03	*
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0.03945232	3.46E-13	***
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0.03933668	2.70E-03	**
0.0374054	2.82E-02	*
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0.03726943	3.54E-02	*
0.04267636	1.14E-02	*
0.03965023	1.41E-02	*
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0.03922543	3.71E-04	**
0.03822282	1.32E-03	**
0.03748715	4.23E-02	*
0.04070206	4.03E-03	*

0.04143823	1.55E-04	**
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0.03820518	1.83E-02	*
0.03860944	1.88E-02	*
0.03881267	4.25E-02	*
0.04526121	6.89E-09	***
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0.03810722	2.48E-02	*
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0.038657	2.47E-02	*
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0.03702338	2.28E-03	**
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0.03801813	6.72E-03	*
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0.03850569	1.10E-02	*
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0.03790025	4.15E-02	*
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0.03721939	3.70E-03	**
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0.03815394	2.47E-13	***
0.03900911	7.77E-04	**

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0.03875484	3.32E-04	**
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0.03942638	2.36E-02	*
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0.03730761	1.25E-11	***

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0.03944895	8.30E-08	***
0.03750937	1.18E-18	***
0.03927356	5.89E-08	***
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0.03889122	1.09E-04	**
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0.04042653	6.11E-07	**
0.04141882	5.84E-05	**
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0.03875357	3.48E-05	**
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0.04276542	1.78E-04	**
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0.03836213	1.41E-05	**
0.03872951	2.29E-05	**
0.03830504	1.26E-08	***
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0.03909534	4.12E-04	**
0.03711667	1.16E-15	***
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0.03913405	2.49E-08	***
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0.04146085	5.05E-08	***
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0.0397405	2.27E-03	**
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0.03984378	6.89E-03	*

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0.03927726	4.24E-06	**
0.04053907	3.66E-02	*
0.03989215	1.90E-02	*

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0.03941816	4.72E-05	**
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0.0423145	1.49E-17	***
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0.03922733	7.92E-10	***
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0.08486999	1.24E-02	*
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0.03972419	6.32E-03	*
0.03796645	3.65E-03	**
0.04235494	3.60E-03	**

0.03876142	3.06E-02	*
0.03799147	3.17E-02	*
0.04170428	4.65E-08	***
0.03808298	7.01E-05	**
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0.04035166	1.13E-02	*
0.03813106	1.87E-02	*
0.03752802	1.10E-05	**
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0.03858944	3.44E-04	**
0.03922425	1.92E-03	**
0.03834335	3.82E-03	**
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0.03852776	1.68E-03	**
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0.04008439	2.41E-02	*
0.04076076	1.22E-03	**
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0.03782398	9.11E-03	*
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0.03838853	3.17E-02	*
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0.03972098	5.55E-05	**
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0.03862176	1.57E-02	*
0.03926123	3.33E-02	*
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0.03885713	2.25E-02	*
0.03952097	1.93E-02	*
0.03866837	1.11E-02	*
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0.03814719	8.81E-04	**
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0.09179446	2.14E-02	*
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0.08902961	6.83E-03	*
0.09040179	2.96E-02	*

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0.08475741	1.25E-02	*
0.08566996	1.45E-02	*
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0.09783678	2.26E-03	**
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0.08744754	1.83E-02	*
0.09161288	2.13E-05	**
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0.09935222	4.25E-04	**
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0.09604077	2.61E-02	*
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0.09266879	4.25E-05	**
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0.08900302	2.67E-02	*
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0.09042952	7.10E-03	*
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0.03988681	1.48E-04	**
0.03982753	1.46E-04	**
0.04174507	2.56E-03	**
0.0409701	3.43E-03	**
0.03984759	1.07E-03	**
0.04065311	1.43E-02	*
0.04177146	8.77E-03	*
0.03991574	3.97E-02	*
0.04099749	5.84E-03	*
0.04411759	1.78E-04	**
0.04004302	1.45E-03	**
0.043407	1.91E-03	**
0.04036013	7.60E-03	*
0.04296064	2.06E-03	**
0.0415728	1.16E-04	**
0.04201263	2.85E-02	*
0.04612563	3.61E-06	**
0.04017167	1.22E-04	**
0.03920818	1.50E-08	***
0.04292598	1.95E-02	*
0.03994939	3.05E-02	*
0.03983309	8.68E-03	*
0.03991286	1.39E-04	**
0.04294758	3.27E-02	*
0.04270923	8.55E-03	*
0.03946257	5.52E-04	**
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0.04475773	3.17E-02	*
0.04091957	1.12E-07	**
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0.03986326	4.66E-03	*
0.03982438	3.07E-03	**
0.040032	1.36E-03	**
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0.04096711	1.29E-02	*
0.04029078	1.12E-02	*
0.040573	4.60E-04	**
0.04069818	1.90E-02	*
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0.04000253	1.96E-02	*
0.04315085	2.08E-06	**
0.04201138	1.96E-04	**
0.04006712	7.02E-04	**
0.03993329	3.55E-03	**
0.0404536	2.67E-02	*
0.04151181	3.30E-02	*
0.0455468	2.95E-02	*
0.04191882	2.14E-03	**
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0.04066485	4.09E-02	*

0.04338204	1.36E-02	*
0.0440988	1.88E-05	**
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0.04163199	1.58E-02	*
0.04786728	2.01E-08	***
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0.043023	4.49E-02	*
0.04358778	1.57E-02	*
0.04134883	3.54E-02	*
0.0396975	2.17E-03	**
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0.04145934	1.75E-03	**
0.03984816	3.64E-02	*
0.04036747	1.03E-02	*
0.04084742	1.88E-02	*
0.03988572	6.46E-03	*
0.04165732	4.56E-03	*
0.04123609	8.62E-03	*
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0.04472492	1.63E-03	**
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0.03902238	2.68E-02	*
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0.03850816	4.46E-02	*
0.03847146	9.42E-03	*
0.03993732	2.66E-03	**
0.03941232	1.05E-02	*
0.04131338	5.80E-04	**
0.03936929	1.37E-04	**
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0.03906295	1.70E-03	**
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0.03818452	8.25E-07	**
0.03868993	5.67E-03	*
0.03891849	1.12E-04	**
0.03796226	3.88E-02	*
0.03825796	1.10E-02	*
0.04004148	2.99E-06	**
0.03819503	5.04E-06	**
0.03892343	1.67E-05	**
0.03846704	3.82E-02	*
0.03977592	2.46E-02	*
0.03822622	1.77E-02	*
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0.03937448	1.40E-06	**
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0.03818693	5.25E-04	**
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0.04058845	1.49E-02	*
0.04088589	3.81E-02	*
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0.03795248	7.89E-05	**
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0.0410599	3.12E-02	*
0.0387199	1.29E-02	*
0.03779235	4.55E-04	**
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0.04262443	1.17E-02	*
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0.03979995	3.34E-03	**
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0.03898724	4.64E-02	*
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0.0388676	2.51E-04	**

0.03876261	3.56E-02	*
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0.03983871	1.05E-03	**
0.04251412	1.91E-03	**
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0.03833088	6.54E-04	**
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0.03912263	1.77E-03	**

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0.08478146	3.12E-03	**

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0.03934208	3.14E-02	*
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0.03838281	2.14E-02	*
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0.03789591	8.00E-03	*

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0.03973171	5.71E-04	**
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0.03907008	2.01E-02	*
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0.04224423	8.44E-08	***
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0.03766989	4.24E-08	***
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0.03887036	2.68E-04	**
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0.03849654	5.42E-04	**
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0.0382289	2.09E-05	**
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0.03885969	2.90E-03	**
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0.03939323	2.33E-02	*
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0.03941886	4.67E-04	**
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0.03826283	2.75E-03	**
0.03835112	3.03E-08	***
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0.03829457	2.70E-02	*
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0.03829768	2.60E-02	*
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0.03666917	2.64E-09	***
0.03869391	3.43E-04	**
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0.0384237	3.13E-08	***
0.0377366	8.69E-08	***
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0.04216341	1.01E-02	*
0.04040902	2.95E-07	**
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0.04074686	6.59E-05	**
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0.03915397	2.64E-07	**
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0.03870831	2.73E-06	**
0.03861271	3.13E-08	***
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0.03991682	4.64E-07	**
0.04012704	3.42E-04	**
0.03832491	2.16E-09	***
0.04003254	1.48E-03	**
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0.03960037	4.60E-02	*
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0.03891491	1.03E-06	**
0.03949669	1.24E-02	*
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0.04396559	4.24E-03	*

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0.03886614	2.01E-08	***
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0.03979388	4.10E-03	*
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0.04300703	1.63E-03	**
0.03909583	1.43E-07	**
0.0429447	1.41E-03	**
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0.03820096	8.78E-12	***
0.04030168	4.84E-06	**
0.03927603	2.65E-02	*
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0.03983355	1.04E-03	**
0.04251531	9.06E-05	**
0.04373648	3.68E-03	**
0.03925865	2.63E-03	**
0.03959988	7.45E-04	**
0.04006256	7.11E-04	**
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0.03982598	1.09E-03	**
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0.0399573	1.50E-02	*
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0.03923719	2.86E-03	**

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0.04055924	1.08E-03	**
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0.03909757	5.82E-07	**
0.04045115	2.29E-10	***
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0.03922229	1.47E-03	**
0.03913124	9.95E-04	**
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0.03910458	1.11E-06	**
0.0397917	2.39E-03	**
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0.03964032	1.40E-03	**
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0.04394051	2.07E-05	**
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0.04299915	2.36E-02	*
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0.04176224	1.08E-03	**
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0.08806346	3.17E-02	*
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0.08829027	3.24E-02	*
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0.03825499	9.38E-09	***
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0.04124404	1.70E-02	*
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0.04020822	3.98E-03	**
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0.04083802	3.33E-09	***
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0.03939419	4.88E-02	*

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0.04123072	2.32E-03	**
0.03856757	1.62E-05	**
0.03888747	1.76E-03	**
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0.03922603	3.19E-03	**
0.03943516	3.56E-03	**
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0.03762859	1.34E-09	***
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0.039178	1.86E-02	*
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0.03900264	3.06E-07	**
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0.03862121	2.04E-03	**
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0.03865296	6.11E-05	**
0.03844638	5.99E-06	**
0.03908421	1.74E-06	**
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0.0429363	1.75E-02	*
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0.08546184	1.26E-04	**

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0.08683993	6.18E-04	**
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0.0392943	3.09E-02	*

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0.04083866	1.84E-02	*
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0.03967434	4.66E-02	*
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0.04036826	2.01E-02	*
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0.04102694	2.21E-02	*
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0.03975069	1.37E-06	**
0.0443194	1.68E-03	**
0.04339816	1.13E-03	**

0.04003402	1.08E-04	**
0.03986073	3.80E-03	**
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0.03987184	3.80E-04	**
0.0392711	2.59E-06	**
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0.03929182	9.28E-04	**
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0.0463391	2.71E-04	**
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0.03977201	2.41E-04	**
0.03920242	3.90E-04	**
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0.0396201	3.44E-03	**
0.03977676	4.24E-02	*
0.04343356	3.55E-03	**
0.03997219	3.97E-04	**
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0.04038848	3.73E-02	*
0.03964753	3.10E-04	**
0.04063674	3.87E-02	*
0.04038474	2.77E-03	**
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0.03969208	1.66E-02	*
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0.03986284	2.80E-02	*
0.03987425	2.79E-02	*
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0.04134782	8.95E-03	*
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0.04093536	1.59E-03	**
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0.04360596	4.51E-02	*
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0.04176541	2.03E-02	*
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0.04479342	3.22E-02	*
0.03975172	8.70E-03	*
0.04188182	6.48E-03	*
0.04161752	2.92E-03	**
0.03933301	6.79E-10	***
0.03954295	5.99E-11	***
0.04070864	7.42E-05	**
0.04307262	2.71E-02	*
0.03994446	2.13E-06	**
0.03913267	2.33E-08	***
0.04151636	2.96E-03	**
0.04180299	1.34E-05	**
0.0423399	1.16E-02	*
0.04015848	2.59E-02	*
0.04031696	2.10E-05	**
0.04053008	3.96E-03	**

0.04043081	4.88E-04	**
0.04075539	2.25E-02	*
0.03993638	8.66E-04	**
0.04390527	1.51E-03	**
0.04495462	8.51E-03	*
0.0407297	5.40E-03	*
0.04253921	1.76E-03	**
0.04150806	3.45E-02	*
0.04050324	2.77E-03	**
0.04146324	4.23E-02	*
0.03924356	2.04E-10	***
0.03987692	4.40E-04	**
0.04243124	2.32E-03	**
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0.04179325	2.12E-02	*
0.0412016	5.62E-03	*
0.04077652	4.78E-03	*
0.04002254	3.53E-05	**
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0.04050321	5.48E-08	***
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0.04245971	1.18E-03	**
0.04134461	2.26E-04	**
0.0402386	1.07E-03	**
0.0493864	1.85E-02	*
0.04175317	9.77E-03	*
0.04036103	5.93E-03	*
0.04061417	5.14E-07	**
0.044706	2.23E-03	**
0.04039721	4.72E-04	**
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0.04468904	4.73E-02	*
0.04054782	3.28E-02	*
0.04049175	4.60E-02	*
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0.03926005	7.34E-07	**
0.03985501	1.07E-03	**
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0.04000207	2.48E-08	***
0.04107547	1.93E-05	**
0.04068172	4.38E-02	*
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0.04311649	7.24E-03	*
0.04218893	5.40E-03	*
0.03979315	1.01E-06	**
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0.04056656	3.99E-02	*
0.03940794	7.84E-07	**
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0.04308756	6.13E-07	**
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0.04165388	4.65E-02	*
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0.04246888	4.87E-02	*
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0.04034023	1.09E-03	**
0.04049384	1.19E-03	**
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0.03975442	1.29E-02	*
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0.04030201	1.39E-02	*
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0.0394264	1.83E-03	**
0.03947593	4.68E-03	*
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0.04022198	2.27E-03	**

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0.12382008	4.03E-04	**
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0.03737321	4.82E-02	*
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0.0375599	7.64E-04	**
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0.08243195	2.34E-03	**
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0.04134729	2.27E-02	*
0.0397706	8.74E-05	**
0.04299385	3.15E-03	**
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0.04713927	5.19E-09	***
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0.04137164	3.03E-02	*
0.0415129	1.70E-04	**
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0.04037469	4.37E-05	**

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0.04222295	4.13E-03	*
0.04040836	8.86E-08	***
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0.04246923	4.05E-07	**
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0.04078144	5.02E-06	**
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0.04390382	1.02E-03	**
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0.04110163	3.82E-02	*
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0.04367164	2.59E-02	*
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0.03843518	2.85E-02	*

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0.03710032	3.67E-03	**
0.03735029	7.18E-03	*
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0.03796184	4.71E-02	*
0.03737051	2.04E-07	**
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0.03804699	7.82E-07	**
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0.03716335	1.78E-02	*
0.03800137	2.76E-02	*
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0.03816177	3.41E-06	**
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0.03833735	6.94E-09	***
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0.03870122	1.69E-14	***

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0.03847672	5.13E-06	**
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0.04155129	9.53E-04	**
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0.04121332	2.36E-02	*
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0.04263087	3.79E-02	*
0.0430578	2.85E-03	**
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0.04308368	7.25E-03	*
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0.04241831	2.16E-03	**
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0.0412416	3.15E-05	**
0.04290971	4.94E-02	*
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0.04473283	3.35E-02	*
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0.04070493	3.32E-03	**
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0.0420098	1.30E-02	*
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0.0413795	2.70E-02	*
0.04181482	3.63E-03	**
0.04210349	1.11E-02	*
0.04125627	1.41E-02	*
0.04416911	4.19E-02	*
0.04090074	1.65E-03	**
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0.0417944	2.36E-02	*
0.04169343	3.79E-04	**
0.04308293	2.75E-02	*
0.04331528	2.29E-02	*
0.04199411	2.72E-03	**
0.04005118	2.41E-05	**
0.03896563	1.07E-10	***
0.03954158	2.49E-03	**
0.03975198	5.87E-07	**
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0.03997085	4.74E-03	*

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0.04187518	1.81E-02	*
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0.0883493	3.06E-03	**
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0.03932833	3.16E-02	*
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0.03750655	4.22E-03	*
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0.03963053	3.25E-06	**

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0.08201853	3.03E-02	*
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0.08844708	1.01E-02	*
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0.03973802	4.89E-02	*
0.0397493	3.15E-03	**
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0.03981908	2.47E-02	*
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0.03813825	1.42E-03	**
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0.10661195	9.19E-04	**
0.11271323	3.99E-03	**
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0.10640094	8.25E-03	*
0.11865763	8.60E-03	*
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0.1097397	3.62E-03	**
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0.1052721	1.80E-02	*
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0.10409591	4.18E-02	*
0.12595539	1.78E-07	**
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0.11466783	1.67E-02	*
0.13822923	6.42E-04	**
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0.10594693	2.71E-02	*
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0.11024145	3.36E-02	*
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0.11699555	2.22E-04	**
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0.10856388	4.37E-02	*
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0.1146392	3.18E-03	**
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0.10911417	6.08E-03	*
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0.105922	4.42E-02	*

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0.08509755	2.51E-02	*
0.0826832	6.37E-03	*
0.09653698	4.30E-03	*
0.08637501	8.50E-03	*
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0.08287551	4.85E-02	*
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0.08577956	2.73E-02	*
0.09377821	2.60E-03	**
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0.08417247	1.97E-02	*
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0.08375883	7.39E-03	*
0.08349856	1.85E-03	**
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0.09491949	1.55E-03	**
0.08334121	1.26E-02	*
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0.08301031	1.17E-02	*
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0.08511457	4.89E-03	*
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0.03927345	7.13E-04	**
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0.04017895	2.08E-02	*
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0.03964115	8.60E-06	**
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0.03927137	4.21E-02	*
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0.04194264	9.90E-05	**
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0.03961591	2.12E-03	**
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0.03909536	1.24E-02	*
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0.03980891	2.86E-03	**
0.03967429	1.73E-04	**
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0.03910459	1.47E-06	**
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0.03987366	1.56E-02	*
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0.03964134	7.06E-03	*
0.0391545	4.04E-02	*
0.03685094	1.53E-03	**
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0.03745062	2.54E-02	*
0.03744552	4.67E-02	*
0.0364382	2.07E-02	*
0.04129084	1.09E-06	**
0.03796984	2.06E-02	*
0.03749538	2.25E-02	*
0.03665532	7.75E-04	**
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0.03666437	3.43E-02	*
0.03693567	5.99E-06	**
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0.03650642	9.32E-04	**
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0.03668845	2.76E-02	*
0.03727841	1.46E-13	***
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0.03914524	1.96E-02	*

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0.03642458	4.85E-02	*
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0.04068165	3.12E-03	**
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0.03786484	2.38E-04	**
0.03788209	2.34E-04	**
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0.03734045	9.76E-05	**
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0.03837742	4.87E-10	***
0.03688023	1.21E-03	**
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0.03651692	1.51E-02	*
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0.03779254	9.37E-03	*
0.03963507	3.31E-03	**
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0.03941242	2.78E-04	**
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0.03665966	3.86E-02	*
0.03627818	1.39E-02	*
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0.03609228	1.62E-03	**
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0.03860524	1.24E-03	**
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0.03712081	1.47E-02	*
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0.03755701	4.03E-02	*
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0.03779219	2.35E-03	**
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0.04004252	3.57E-09	***
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0.03824925	4.25E-03	*
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0.03852154	4.67E-10	***
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0.03871639	6.75E-05	**
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0.03900727	3.84E-02	*
0.04216406	3.98E-02	*
0.03949603	1.39E-02	*
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0.03978431	2.53E-03	**
0.03868436	1.53E-08	***
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0.03945225	1.38E-03	**
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0.03822056	4.99E-02	*
0.0403497	3.43E-04	**
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0.03976101	2.27E-04	**
0.03892248	1.12E-03	**
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0.03898356	6.46E-04	**
0.03899539	2.79E-02	*
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0.03840463	1.05E-02	*
0.03844066	2.49E-03	**
0.03746232	2.42E-07	**
0.03970022	1.68E-02	*
0.03927045	4.23E-05	**
0.03800408	1.99E-11	***
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0.03890326	2.98E-03	**
0.041991	6.41E-03	*

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0.03834107	2.44E-05	**
0.0384316	2.69E-03	**
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0.03828532	1.50E-02	*
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0.03993726	9.73E-07	**
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0.09561305	2.81E-03	**
0.09968713	3.45E-02	*
0.09344996	4.88E-02	*
0.09877466	6.69E-04	**
0.09239733	1.00E-04	**
0.09512995	8.03E-03	*
0.09254721	1.18E-04	**
0.09971002	6.44E-04	**
0.09805009	2.02E-03	**
0.0909662	3.36E-03	**
0.09648355	1.88E-04	**
0.09444785	2.53E-03	**
0.0925719	1.30E-02	*
0.09457167	1.26E-03	**
0.09385695	2.84E-02	*
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0.09149447	1.03E-02	*
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0.09327907	1.36E-02	*
0.08890659	3.25E-02	*
0.09534605	1.95E-02	*
0.09492813	8.72E-03	*
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0.09670683	6.85E-06	**
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0.09329649	9.50E-03	*
0.0913524	1.56E-04	**
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0.09213648	3.27E-02	*
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0.09368287	2.90E-02	*
0.11196385	9.18E-05	**
0.09281009	1.54E-04	**
0.11331652	4.84E-04	**
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0.09567915	3.31E-02	*
0.09341221	3.99E-02	*
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0.10415775	3.13E-03	**
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0.09351499	4.61E-03	*
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0.09254642	2.45E-02	*
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0.09434017	1.83E-02	*
0.09859723	3.38E-02	*
0.09632616	8.15E-03	*
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0.09370269	2.72E-03	**
0.09911431	2.01E-02	*
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0.09568031	1.99E-02	*
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0.09347194	2.98E-02	*
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0.10039922	2.78E-02	*
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0.09143063	1.32E-02	*
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0.11533302	3.23E-08	***
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0.08912391	4.22E-02	*
0.0893753	2.66E-03	**
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0.09413689	2.96E-02	*
0.09059747	1.91E-02	*
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0.08976223	1.49E-03	**
0.08846237	1.27E-03	**
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0.09108999	1.46E-03	**
0.09725258	5.94E-03	*
0.09385051	1.39E-03	**
0.09320934	1.32E-04	**

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0.0925524	3.03E-02	*
0.09317138	1.99E-02	*
0.08921901	7.40E-04	**
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0.10217734	1.22E-03	**
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0.10153234	4.28E-03	*
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0.0381327	4.03E-03	**
0.03752158	4.05E-07	**
0.03683849	3.75E-02	*
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0.04265392	2.46E-07	**
0.03883023	3.05E-09	***
0.03737119	3.43E-07	**
0.03671054	2.90E-04	**
0.03741002	3.32E-02	*
0.03724722	2.61E-03	**
0.03768113	8.75E-05	**
0.0388096	1.69E-05	**
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0.04019453	4.23E-09	***
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0.03872662	5.14E-04	**
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0.10924127	1.25E-03	**
0.1181753	2.98E-02	*
0.12882888	1.03E-02	*
0.11650121	7.97E-04	**
0.13193876	2.71E-06	**
0.11711664	9.54E-05	**
0.12055885	2.65E-03	**
0.11462595	2.48E-02	*
0.12260342	4.32E-04	**
0.10773532	3.94E-02	*
0.10245822	4.40E-02	*
0.12568834	2.54E-04	**
0.12069845	6.98E-04	**
0.11497006	1.16E-03	**
0.10875618	4.72E-02	*
0.111683	6.36E-03	*
0.13219976	4.04E-05	**

0.12143061	2.68E-04	**
0.11608788	3.54E-06	**
0.1052654	3.64E-03	**
0.11989116	4.46E-03	*
0.11419065	4.76E-02	*
0.1058694	7.80E-03	*
0.10958633	2.63E-02	*
0.11043003	5.34E-03	*
0.10747172	3.76E-04	**
0.12079554	2.27E-02	*
0.10552928	1.46E-03	**
0.12310658	2.48E-02	*
0.11037726	2.28E-02	*
0.11523284	2.84E-05	**
0.12624068	2.04E-04	**
0.10990073	1.38E-03	**
0.12717765	1.57E-04	**
0.10671846	4.05E-02	*
0.10464828	6.49E-04	**
0.11219257	6.08E-03	*
0.12127357	6.13E-03	*
0.10565171	4.69E-02	*
0.12393564	5.68E-03	*
0.10859127	2.95E-03	**
0.10701022	3.50E-03	**
0.12067474	1.23E-02	*
0.11170121	1.30E-03	**
0.11757803	1.90E-02	*
0.12027554	1.15E-05	**
0.12388676	1.72E-04	**
0.1173644	1.61E-04	**
0.12804478	5.29E-03	*
0.12908533	6.01E-05	**
0.11093287	1.22E-02	*
0.11004808	1.38E-02	*
0.1172087	1.17E-03	**
0.11985199	1.40E-04	**
0.10669856	9.19E-03	*
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0.11262664	4.50E-04	**
0.11926166	2.74E-03	**
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0.11972682	6.38E-03	*
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0.13727705	2.50E-07	**
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0.11176751	9.45E-03	*
0.11124926	1.10E-02	*
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0.12391073	2.03E-06	**
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0.1116738	2.72E-02	*
0.11866596	2.79E-05	**
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0.11700579	8.15E-04	**
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0.1155295	4.78E-02	*
0.11231671	3.10E-03	**
0.11363093	4.62E-03	*
0.117199	4.82E-04	**
0.11973441	3.76E-02	*
0.11525013	4.75E-03	*
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0.10370999	1.31E-02	*
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0.10486454	2.13E-02	*
0.1214671	1.12E-02	*
0.12074807	7.21E-03	*
0.10876421	2.47E-03	**
0.1302896	2.28E-05	**
0.11976291	3.28E-04	**
0.11665214	1.66E-04	**
0.12243176	4.95E-06	**
0.14895688	7.04E-04	**
0.12845392	4.23E-04	**
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0.11230818	1.75E-02	*
0.11959558	1.66E-05	**

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0.12640447	7.74E-03	*
0.12306629	2.42E-03	**
0.12096637	9.89E-05	**
0.12025314	2.19E-02	*
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0.12620807	2.37E-04	**
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0.11695477	1.90E-02	*
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0.11272981	2.65E-02	*
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0.12004227	4.83E-03	*
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0.11625645	3.88E-02	*
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0.11713417	2.19E-02	*
0.12045815	4.10E-06	**
0.12035187	3.23E-02	*
0.13153883	1.67E-03	**
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0.13592427	6.07E-03	*
0.11961523	3.59E-04	**
0.11702448	1.35E-03	**
0.12346365	1.21E-03	**
0.11492514	1.71E-02	*
0.12285058	5.32E-03	*
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0.1153746	2.10E-02	*
0.11725416	2.96E-03	**
0.10990245	1.58E-02	*
0.11706988	3.44E-03	**
0.12720001	7.57E-04	**
0.11641758	6.76E-03	*

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0.12251002	3.20E-05	**
0.12891642	2.63E-05	**
0.12127917	1.48E-03	**
0.12224315	1.98E-03	**
0.04418426	2.50E-03	**
0.04929987	8.73E-04	**
0.04404579	3.04E-03	**
0.04293495	4.75E-02	*
0.04244279	1.62E-02	*
0.04529525	3.60E-03	**
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0.04240334	2.99E-02	*
0.04655126	2.81E-03	**
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0.04419242	7.76E-05	**
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0.04275827	3.52E-02	*
0.04520265	2.19E-02	*
0.04559158	6.54E-03	*
0.04371346	2.19E-03	**
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0.04424656	2.82E-02	*
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0.04221612	6.84E-03	*
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0.04428068	5.55E-03	*
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0.09141088	3.82E-03	**
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0.04030653	7.82E-03	*
0.03927283	1.76E-08	***
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0.04041444	1.15E-07	**
0.04034579	5.60E-06	**
0.03992143	1.16E-06	**
0.04010771	3.19E-05	**
0.04186096	1.94E-05	**
0.04089299	4.73E-02	*
0.04057263	3.38E-06	**
0.0397598	1.02E-08	***
0.04145324	3.25E-02	*
0.04331489	3.73E-02	*
0.04081533	1.18E-03	**
0.03898787	1.03E-10	***
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0.04017286	4.71E-03	*
0.04101905	6.55E-03	*

0.04141259	1.90E-05	**
0.04044893	2.42E-06	**
0.03990629	9.68E-07	**
0.04294213	3.74E-04	**
0.0401257	2.90E-03	**
0.04018741	3.16E-07	**
0.04327004	1.55E-02	*
0.04022893	5.53E-03	*
0.04306692	2.36E-02	*
0.04029625	4.38E-04	**
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0.04096051	5.77E-03	*
0.04152773	4.00E-03	**
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0.04001941	7.11E-08	***
0.03965031	4.35E-06	**
0.04165322	1.80E-02	*
0.04142067	1.24E-09	***
0.04047409	1.98E-02	*
0.04133824	3.40E-02	*
0.04161142	3.04E-07	**
0.04039193	1.73E-02	*
0.04029952	2.39E-04	**
0.04175926	1.56E-04	**
0.04239608	4.72E-02	*
0.0403006	1.45E-02	*
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0.04702017	1.85E-03	**
0.0432241	1.89E-05	**
0.04141541	1.16E-03	**
0.04042371	7.72E-04	**
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0.04113925	3.65E-03	**
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0.03978678	1.58E-05	**
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0.04293291	2.37E-06	**

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0.08614255	6.41E-03	*
0.08694731	2.53E-03	**
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0.09132897	7.50E-05	**
0.08534323	2.92E-03	**
0.08777956	2.11E-05	**
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0.08541761	1.99E-02	*
0.08753608	4.12E-02	*
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0.09275365	2.35E-08	***
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0.09109687	2.97E-05	**
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0.0844026	4.60E-02	*

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0.0884491	5.39E-06	**
0.08504671	2.68E-02	*
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0.08936133	1.91E-03	**
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0.09071323	4.05E-02	*
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0.10242862	2.28E-02	*
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0.0402322	8.03E-04	**
0.0421532	2.61E-02	*
0.04218848	3.37E-02	*
0.04008162	2.16E-02	*
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0.04074868	4.50E-02	*
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0.04421785	1.34E-05	**
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0.04019361	1.77E-02	*

0.04156452	3.44E-03	**
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0.04363636	3.33E-05	**
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0.04436008	1.86E-02	*
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0.04468054	1.61E-03	**
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0.04049113	3.43E-02	*
0.0424302	4.68E-02	*

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0.04334883	6.16E-06	**
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0.04225778	4.15E-02	*
0.04203294	2.26E-03	**
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0.03912534	6.30E-10	***
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0.04099055	2.08E-03	**
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0.04035156	2.59E-02	*
0.04196808	5.79E-03	*
0.04186445	3.07E-02	*
0.03943193	1.38E-04	**
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0.04074223	2.18E-03	**
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0.04875667	1.35E-02	*
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0.04195477	1.73E-05	**
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0.04281926	3.08E-02	*
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0.04498424	1.14E-02	*
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0.04393727	2.97E-02	*
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0.04121731	1.20E-03	**
0.03931919	3.06E-03	**
0.04127114	1.28E-04	**
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0.03953165	1.03E-02	*
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0.039448	8.89E-03	*
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0.03952211	2.76E-02	*
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0.03884644	8.39E-06	**

0.04519005	8.37E-08	***
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0.04040959	7.53E-05	**
0.03897431	7.15E-06	**
0.03986855	4.27E-03	*
0.04006074	4.24E-04	**
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0.0395821	1.28E-04	**
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0.03920207	5.11E-03	*
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0.03917948	2.38E-05	**
0.03931862	3.33E-05	**
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0.04213773	1.44E-04	**
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0.04050831	1.12E-03	**
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0.03985555	3.44E-07	**
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0.039411	1.75E-02	*
0.04141971	1.01E-02	*
0.03941136	1.35E-02	*
0.04253676	5.61E-06	**
0.04094103	2.08E-02	*
0.03941547	1.30E-03	**
0.04237593	1.50E-02	*
0.04106779	6.43E-04	**
0.04305804	1.86E-08	***

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0.04087356	3.86E-04	**
0.0450225	2.52E-09	***
0.03936926	2.34E-05	**
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0.04321486	2.54E-02	*
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0.03821466	1.25E-09	***
0.03946096	5.64E-03	*
0.04333133	5.68E-06	**
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0.04056866	1.97E-06	**
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0.04144378	4.21E-02	*
0.0412519	3.95E-03	**
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0.03974822	8.18E-04	**
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0.03985977	4.09E-02	*
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0.04261181	2.59E-03	**

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0.03983832	1.34E-02	*
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0.03975278	2.04E-02	*
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0.03986108	2.27E-02	*
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0.03978935	3.49E-04	**
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0.04035228	4.71E-05	**
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0.03951464	1.64E-03	**
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0.03927196	7.85E-03	*
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0.03950206	1.28E-02	*
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0.04178563	3.94E-05	**
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0.03914108	1.26E-10	***
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0.0390009	4.38E-04	**

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0.03918254	1.27E-06	**
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0.03967697	4.53E-04	**
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0.03953025	1.35E-09	***
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0.09453623	1.16E-03	**
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0.09691829	1.17E-02	*
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0.0378463	2.85E-12	***
0.03868599	2.94E-03	**
0.03850582	6.04E-10	***
0.03909413	6.49E-03	*
0.03969704	1.96E-02	*
0.04000617	3.17E-02	*
0.03992508	8.36E-03	*
0.03790455	2.42E-14	***
0.03885678	2.09E-04	**
0.04483111	4.87E-03	*
0.04093227	1.97E-05	**
0.03965036	9.51E-03	*
0.03911807	1.79E-02	*
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0.03833453	5.95E-07	**
0.03854761	5.15E-04	**
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0.03814385	6.93E-07	**
0.03920875	6.08E-04	**
0.03952943	2.05E-04	**
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0.038858	4.82E-06	**
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0.04095237	2.25E-05	**
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0.0396896	1.33E-04	**
0.03768436	3.02E-16	***
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0.04178855	4.89E-02	*
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0.03942448	3.66E-02	*
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0.0390578	4.94E-02	*
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0.1002107	1.41E-03	**

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0.10262122	3.77E-03	**
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0.03927464	1.30E-02	*
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0.03784797	8.39E-03	*
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0.03748008	5.51E-08	***
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0.04033232	1.80E-10	***
0.03712885	1.57E-03	**
0.03916944	2.59E-04	**
0.03732038	3.21E-02	*
0.04019886	7.52E-05	**
0.03887979	1.80E-02	*
0.03742747	1.43E-03	**
0.04084732	9.20E-03	*
0.03707112	1.95E-03	**
0.03702158	1.11E-02	*
0.03694006	2.00E-02	*
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0.04022547	1.17E-08	***
0.03829675	2.13E-08	***
0.03829048	2.50E-06	**
0.04213911	4.91E-12	***
0.03740374	6.54E-04	**
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0.03898237	9.95E-04	**
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0.03772391	9.05E-07	**
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0.03690916	6.99E-04	**
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0.03916101	1.36E-09	***
0.03709539	1.45E-03	**
0.03722371	4.58E-03	*
0.03975367	1.73E-04	**
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0.0404341	2.85E-02	*

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0.03755729	6.41E-13	***
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0.03796659	4.45E-12	***
0.03613141	1.16E-11	***
0.03827843	3.69E-04	**
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0.03750008	1.37E-16	***
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0.04053577	5.16E-09	***
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0.0379796	3.85E-03	**
0.03710567	2.11E-03	**
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0.03831873	1.34E-06	**
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0.03801972	4.55E-06	**
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0.03818384	4.95E-07	**
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0.03766584	7.81E-05	**
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0.03784889	2.70E-03	**
0.03969028	7.56E-03	*
0.0412192	7.41E-05	**
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0.03958145	2.92E-02	*
0.03920621	2.42E-04	**
0.04423735	8.36E-05	**
0.04241701	4.26E-02	*
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0.03756015	1.87E-02	*
0.0419998	1.02E-03	**
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0.03986543	1.85E-03	**
0.03943824	2.71E-02	*
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0.08473425	5.04E-04	**
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0.08331204	4.41E-02	*
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0.08392503	2.14E-02	*
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0.03779797	1.79E-05	**
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0.04228027	1.11E-02	*
0.04064574	3.36E-02	*
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0.04227304	1.35E-02	*
0.04032147	3.76E-04	**
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0.04083405	1.73E-02	*
0.04104574	3.06E-02	*
0.0403175	4.36E-02	*
0.04045666	1.42E-03	**
0.0427727	3.39E-03	**
0.04105337	1.92E-02	*
0.04452239	5.84E-03	*
0.04062569	4.35E-03	*
0.0408503	1.24E-02	*
0.04333988	2.71E-02	*
0.04332206	6.61E-04	**
0.04528061	2.21E-02	*
0.0407562	1.56E-03	**
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0.0448325	6.01E-03	*
0.04265415	1.91E-02	*
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0.04722573	1.35E-03	**
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0.04154321	3.52E-02	*
0.04231984	3.48E-03	**
0.04063377	3.43E-02	*
0.04021726	1.58E-03	**
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0.04383379	4.68E-02	*
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0.04087913	2.88E-02	*
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0.04168871	2.32E-02	*

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0.09303185	1.36E-02	*
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0.09074052	1.92E-03	**
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0.03904025	3.64E-02	*
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0.03921264	1.99E-03	**
0.04233111	3.66E-02	*
0.03964734	3.65E-03	**
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0.03977929	1.34E-03	**
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0.0385897	2.18E-03	**
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0.03899818	3.35E-02	*
0.03921834	4.60E-03	*
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0.03887438	1.24E-02	*

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0.03839765	5.64E-07	**
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0.03979684	2.56E-02	*
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0.0401765	3.03E-04	**
0.0414175	2.25E-03	**
0.03964967	8.99E-03	*
0.03899775	7.28E-03	*
0.03864692	1.44E-05	**
0.03938176	3.95E-02	*
0.0391663	1.90E-02	*
0.03921041	1.59E-02	*
0.03880693	3.19E-06	**
0.0394606	1.45E-03	**
0.03952456	2.48E-03	**
0.03981514	1.05E-02	*
0.04110894	2.97E-03	**
0.03879315	1.56E-06	**
0.0401558	2.58E-04	**
0.04231835	1.17E-05	**
0.03908441	2.18E-02	*
0.03973811	1.01E-02	*
0.03952362	1.42E-02	*
0.04110333	1.71E-03	**
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0.03944052	4.92E-02	*

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0.03862339	1.90E-02	*
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0.04021298	1.93E-02	*
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0.04479231	2.03E-02	*
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0.03792622	3.86E-02	*
0.03830164	1.23E-02	*
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0.03826417	2.61E-03	**
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0.03855042	3.10E-02	*
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0.038042	2.37E-02	*
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0.0375357	1.82E-03	**
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0.03875384	3.68E-03	**
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0.03971364	8.36E-03	*
0.0388521	5.79E-04	**

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0.09232903	1.43E-02	*
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0.10406053	1.46E-03	**
0.10846977	1.34E-05	**
0.09707909	2.57E-02	*
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0.09898231	1.76E-02	*
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0.10177533	2.79E-02	*
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0.09701683	3.34E-02	*
0.09948003	1.75E-03	**
0.09802034	9.63E-03	*
0.10502271	2.33E-06	**
0.10395395	2.25E-03	**
0.09843271	2.36E-02	*
0.10423838	1.45E-04	**
0.10201714	2.51E-03	**
0.09593673	4.01E-02	*
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0.09626983	2.42E-02	*
0.10431289	1.33E-02	*
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0.09487916	2.23E-02	*
0.09205279	1.18E-03	**
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0.0931935	1.21E-03	**
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0.09748169	3.78E-03	**
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0.10601029	1.17E-03	**
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0.09442404	3.38E-05	**
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0.09901783	3.38E-03	**
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0.09364477	1.47E-02	*
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0.09348028	1.11E-02	*

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0.09305662	1.88E-03	**
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0.12046362	1.08E-03	**
0.12124317	1.24E-04	**
0.12543158	2.15E-02	*
0.12659909	1.18E-06	**
0.13026261	1.62E-04	**
0.12941968	7.70E-04	**
0.12109399	5.70E-03	*
0.1313792	2.51E-06	**
0.1305292	2.11E-03	**
0.1109835	6.40E-03	*
0.12688851	1.70E-02	*
0.11444664	7.06E-03	*
0.12701725	4.97E-03	*
0.11637244	4.91E-04	**
0.14665608	4.91E-07	**
0.12345757	1.77E-04	**
0.11769124	2.16E-03	**
0.13376943	6.28E-07	**
0.11979336	2.19E-03	**
0.11873367	4.68E-04	**
0.15980243	7.43E-07	**
0.130165	1.45E-03	**
0.12705064	1.18E-03	**
0.11451301	2.51E-02	*
0.17435196	2.37E-06	**
0.11888424	2.84E-03	**
0.12579584	9.20E-05	**
0.12686705	4.77E-04	**
0.13228738	2.02E-04	**
0.12445124	2.79E-06	**
0.12405036	4.51E-03	*
0.11670173	1.45E-03	**

0.11328978	2.14E-03	**
0.1210596	1.97E-02	*
0.11138338	2.46E-02	*
0.13806985	4.87E-05	**
0.13503493	2.31E-04	**
0.12074609	1.96E-03	**
0.12026487	7.49E-03	*
0.12599046	2.82E-03	**
0.1218726	2.30E-03	**
0.13276972	5.94E-04	**
0.12921805	9.17E-03	*
0.12724595	3.72E-04	**
0.1231025	2.90E-03	**
0.11093055	1.96E-02	*
0.12273027	2.12E-03	**
0.12313325	7.99E-03	*
0.11743777	1.41E-03	**
0.12227334	1.48E-03	**
0.11852034	4.38E-02	*
0.14444729	8.14E-04	**
0.11511679	4.35E-03	*
0.11949385	2.38E-04	**
0.12534359	5.91E-03	*
0.11982434	4.94E-03	*
0.13523131	1.79E-04	**
0.125309	9.18E-03	*
0.11088707	1.64E-02	*
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0.11574293	2.28E-02	*
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0.03711169	7.45E-04	**
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0.03764864	1.14E-02	*
0.03766058	1.25E-03	**
0.03728747	2.26E-02	*
0.03680771	1.21E-04	**

0.03700497	1.06E-02	*
0.0373475	1.07E-02	*
0.03786913	4.03E-02	*
0.0368769	8.94E-03	*
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0.03730768	7.74E-03	*
0.03774683	5.28E-03	*
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0.03731363	4.03E-03	**
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0.04210018	1.15E-05	**
0.03773784	1.74E-03	**
0.03744538	2.78E-03	**
0.03708525	1.39E-03	**
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0.03818724	3.80E-10	***
0.03689743	2.58E-07	**
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0.03741125	1.18E-04	**
0.04028667	5.78E-04	**
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0.03700879	7.18E-05	**
0.03724868	4.40E-02	*
0.03896111	1.17E-08	***
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0.03738257	4.27E-02	*
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0.04121495	1.20E-05	**
0.03707401	5.58E-03	*
0.03772792	4.18E-02	*
0.03767882	4.00E-03	**
0.03679358	5.84E-04	**
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0.03920189	2.11E-04	**
0.03806115	2.62E-03	**
0.03825148	3.45E-05	**
0.03907311	2.77E-02	*
0.03901823	1.86E-03	**
0.041525	2.89E-03	**
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0.03757878	7.77E-03	*
0.03853307	8.16E-03	*
0.03870676	8.55E-04	**
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0.03803381	1.61E-04	**

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0.03760434	3.85E-04	**
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0.03727201	7.34E-03	*
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0.03791793	2.99E-02	*
0.03737414	2.63E-02	*
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0.0384566	5.31E-07	**
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0.04173539	6.27E-03	*
0.04090607	1.47E-02	*
0.03707441	3.60E-04	**
0.03876423	5.14E-04	**
0.03810687	1.22E-02	*
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0.03724253	3.04E-02	*
0.03725849	3.09E-02	*
0.04181226	3.28E-02	*
0.03877809	3.37E-06	**
0.03928216	3.70E-04	**
0.03960706	3.08E-04	**
0.03963008	3.05E-02	*
0.03827562	2.85E-04	**
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0.03721962	9.05E-03	*
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0.03977752	4.15E-08	***
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0.03766078	2.33E-02	*
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0.03951049	2.08E-02	*
0.03717724	2.75E-02	*
0.03795457	9.60E-03	*
0.0382558	8.87E-04	**

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0.03785637	8.67E-03	*
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0.03712798	1.31E-03	**
0.03760946	4.46E-02	*
0.03939302	1.09E-06	**
0.03955777	1.75E-04	**
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0.04090914	1.15E-06	**
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0.03888161	1.55E-03	**
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0.03769863	1.09E-03	**

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0.08940867	1.47E-02	*
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0.08693168	2.01E-02	*
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0.09000717	2.73E-04	**
0.09720257	5.57E-07	**
0.08751626	2.87E-02	*
0.08756673	1.69E-02	*
0.08928914	3.19E-02	*
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0.09621556	1.17E-03	**
0.08608383	1.78E-03	**
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0.08606067	2.50E-02	*
0.08833536	3.50E-02	*
0.08733192	4.28E-02	*
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0.08601155	4.13E-02	*
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0.10136999	4.05E-05	**
0.09287194	4.79E-04	**
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0.0889932	4.08E-03	*
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0.09650946	5.58E-04	**
0.08888302	1.03E-03	**
0.09446409	1.79E-03	**
0.09312406	3.65E-03	**
0.09276892	4.36E-07	**
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0.04379794	1.30E-02	*
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0.08613714	6.28E-04	**
0.08936945	7.41E-03	*
0.09812812	5.12E-04	**
0.08897226	2.11E-04	**
0.09563848	2.91E-06	**
0.09310161	2.04E-06	**
0.08959378	2.01E-02	*
0.08661812	1.94E-03	**
0.0869345	2.98E-02	*
0.08799266	2.18E-02	*
0.09590013	2.09E-04	**
0.09473941	3.16E-02	*
0.10009739	7.65E-04	**
0.08692147	7.17E-03	*
0.09090953	1.85E-03	**
0.09260388	7.08E-05	**
0.08936195	2.62E-02	*
0.0888126	2.24E-02	*
0.08766826	1.60E-03	**
0.11919567	4.90E-08	***
0.09268168	2.72E-04	**
0.09157216	8.81E-04	**
0.09247743	4.96E-02	*
0.08860457	1.43E-02	*
0.08735998	2.31E-04	**
0.08818466	1.70E-04	**
0.08834426	2.31E-02	*
0.10016362	1.15E-04	**
0.0895697	5.11E-04	**

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0.09369103	1.41E-03	**
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0.08817109	9.20E-03	*
0.09218216	3.45E-03	**
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0.08899334	1.61E-04	**
0.09039551	9.10E-04	**
0.09244777	3.69E-07	**
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0.09282671	1.41E-02	*
0.09109781	2.58E-02	*
0.08724001	4.30E-02	*
0.08894684	1.53E-02	*
0.08689028	1.53E-02	*
0.08520472	3.24E-02	*
0.08925913	3.24E-03	**
0.08823576	1.78E-02	*
0.09164483	2.93E-02	*
0.08710904	9.94E-03	*
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0.08897617	1.00E-03	**
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0.08904834	2.41E-03	**
0.08814811	5.25E-03	*
0.08702442	3.03E-02	*
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0.08919884	3.96E-03	**
0.08631392	2.01E-02	*
0.08916337	1.04E-02	*
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0.03708981	2.37E-03	**
0.03650259	6.03E-05	**
0.0405418	5.21E-21	***
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0.03487029	3.16E-16	***
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0.03618592	2.39E-06	**
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0.03693235	7.76E-25	***
0.03724329	3.20E-07	**
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0.03756397	5.67E-18	***
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0.03725641	1.43E-03	**
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0.03547984	3.67E-14	***
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0.03638153	1.03E-03	**
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0.04082222	4.41E-04	**
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0.04171357	4.83E-02	*
0.04290052	4.67E-03	*
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0.04200206	2.49E-03	**
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0.04114037	1.66E-03	**
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0.04310538	3.91E-02	*

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0.04233893	2.32E-02	*
0.04121577	4.10E-02	*
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0.0402141	3.05E-02	*
0.04384904	4.36E-02	*
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0.04171889	6.96E-03	*
0.04348356	6.47E-04	**
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0.04019365	3.74E-02	*
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0.04340549	2.93E-03	**
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0.04006301	3.28E-03	**
0.03980296	6.89E-04	**
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0.0402499	1.13E-02	*
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0.09374466	2.36E-02	*
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0.09414077	3.46E-02	*
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0.0920035	2.37E-02	*
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0.09380912	1.80E-04	**
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0.03877538	4.87E-04	**
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0.09331835	1.18E-02	*
0.09465503	2.27E-04	**
0.09727493	3.26E-02	*
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0.09764051	1.28E-02	*
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0.04465044	9.03E-04	**
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0.04272661	1.17E-03	**
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0.04478317	2.30E-02	*
0.04442452	2.76E-02	*
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0.04175365	1.62E-03	**
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0.04417742	3.49E-02	*
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0.04486849	7.22E-04	**
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0.04232752	2.87E-02	*
0.04362076	3.65E-03	**
0.04225464	8.00E-05	**
0.04310674	3.53E-03	**
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0.0425178	2.47E-07	**
0.04282768	5.89E-05	**
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0.04592779	1.59E-03	**
0.04574059	5.47E-04	**
0.04464734	6.70E-04	**
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0.04203324	4.23E-02	*
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0.04136187	1.49E-02	*
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0.04133002	1.63E-03	**
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0.04465882	3.43E-02	*
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0.08702289	7.38E-03	*
0.0854542	2.48E-02	*
0.08816836	6.22E-03	*
0.08976927	1.88E-03	**
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0.09399524	4.12E-02	*
0.08540322	4.23E-02	*
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0.08582015	3.04E-04	**
0.08809191	2.50E-02	*
0.08957892	1.25E-02	*
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0.08641013	2.80E-02	*
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0.08920289	2.72E-02	*
0.08837619	2.80E-03	**
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0.08845641	2.71E-02	*
0.08873803	3.87E-02	*
0.08556772	2.14E-02	*
0.08656111	8.58E-03	*
0.08943859	1.57E-04	**
0.09022861	1.09E-04	**
0.09415201	1.19E-03	**
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0.08695456	5.49E-03	*
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0.03808774	1.67E-03	**
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0.03873075	5.97E-04	**

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0.03841559	3.44E-02	*
0.04292111	2.02E-04	**
0.03939516	7.31E-07	**
0.03782296	9.61E-05	**
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0.03765651	1.65E-02	*
0.03818546	4.36E-02	*
0.03915377	3.12E-07	**
0.03702931	8.25E-03	*
0.03749875	1.28E-02	*
0.03775393	3.17E-02	*
0.03678976	3.18E-02	*
0.03702415	1.63E-06	**
0.04105867	2.94E-05	**
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0.03756756	4.05E-02	*
0.03705916	4.42E-03	*
0.03711202	1.83E-02	*
0.03705396	2.39E-03	**
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0.03680895	1.24E-02	*
0.03976909	2.95E-02	*

0.03652616	5.39E-07	**
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0.0366481	1.57E-02	*
0.03924912	1.38E-02	*
0.03677124	2.05E-02	*
0.03770843	4.81E-04	**
0.03944193	2.00E-03	**
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0.03693246	2.20E-03	**
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0.04065485	2.35E-02	*
0.03735159	7.50E-05	**
0.04003717	7.62E-03	*
0.03668235	2.71E-03	**
0.03920077	1.82E-02	*
0.03854109	1.41E-02	*
0.0407176	6.82E-04	**
0.03854478	4.26E-04	**
0.03867401	8.04E-03	*
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0.0368692	1.07E-02	*
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0.03699027	1.08E-03	**
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0.04096138	8.46E-05	**
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0.03680191	1.34E-02	*
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0.0390916	5.35E-04	**
0.03802774	6.49E-04	**
0.04328728	1.49E-15	***
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0.09940336	9.61E-04	**
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0.09494188	2.08E-02	*
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0.03774458	3.41E-03	**
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0.03821541	6.72E-04	**
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0.03893143	2.80E-03	**
0.03751972	1.15E-09	***
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0.03871847	3.07E-02	*
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0.03847383	1.22E-04	**
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0.03941373	7.43E-04	**
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0.03839531	3.14E-02	*

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0.03768523	3.61E-02	*
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0.03976673	3.12E-02	*
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0.08735026	6.41E-04	**
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0.08547366	7.04E-03	*
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0.04085305	2.08E-03	**

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0.03904183	3.17E-02	*
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0.03796237	2.92E-05	**
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0.03707378	5.71E-08	***
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0.04415797	1.66E-02	*
0.04276684	1.41E-02	*
0.03972421	1.51E-02	*
0.03979922	2.44E-02	*
0.04350896	1.92E-05	**
0.04781863	1.79E-05	**
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0.03899247	1.11E-02	*
0.04010693	2.78E-02	*
0.0417642	4.73E-02	*

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0.03882177	4.28E-02	*
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0.09825983	2.93E-03	**
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0.10164384	1.88E-03	**
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0.09832239	5.81E-03	*
0.10446864	1.68E-03	**
0.09828316	7.49E-04	**
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0.09941771	3.73E-03	**
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0.10332646	1.36E-02	*
0.09770501	4.62E-02	*
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0.03929777	3.65E-02	*
0.04036754	1.74E-02	*
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0.04381846	6.49E-05	**
0.04040813	1.04E-03	**

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0.04341852	4.61E-02	*
0.04145144	8.54E-04	**
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0.03949551	1.34E-02	*
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0.03870365	1.06E-04	**
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0.04603643	2.72E-02	*
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0.04027909	1.78E-03	**
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0.03908346	3.07E-02	*
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0.03772395	1.86E-04	**
0.03930185	6.77E-05	**
0.03852544	2.10E-02	*
0.03889678	1.64E-03	**
0.0384304	1.58E-04	**
0.03756613	2.14E-04	**
0.04306457	1.75E-04	**
0.03977812	1.39E-02	*
0.03941163	1.29E-06	**

0.03935288	7.02E-09	***
0.03824195	5.20E-03	*
0.03828316	7.96E-05	**
0.03763538	3.82E-07	**
0.03910868	4.65E-09	***
0.03873757	2.24E-03	**
0.03783402	6.92E-03	*
0.04375019	6.00E-07	**
0.0394861	2.27E-16	***
0.03927807	2.70E-03	**
0.03804551	1.46E-02	*
0.03819871	3.14E-08	***
0.040045	8.72E-11	***
0.03800479	3.70E-06	**
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0.03834506	5.62E-04	**
0.03791312	2.99E-06	**
0.03879015	3.93E-04	**
0.0386887	3.09E-03	**
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0.03903724	1.84E-02	*
0.04230338	3.74E-07	**
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0.03839101	8.37E-06	**
0.04018878	7.38E-03	*
0.03842529	3.95E-03	**
0.03819909	5.61E-03	*
0.03755277	5.57E-09	***
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0.03786424	1.79E-03	**
0.03884308	3.38E-04	**
0.04095424	5.44E-03	*
0.03823539	1.08E-02	*
0.03800997	2.56E-07	**
0.03920126	2.68E-03	**
0.03827915	4.18E-07	**
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0.04038438	1.51E-03	**
0.03792279	4.97E-04	**
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0.03788945	2.69E-12	***
0.04073998	4.69E-04	**
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0.03811753	2.12E-02	*
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0.03927503	6.07E-06	**
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0.03906912	6.82E-03	*
0.03764853	1.16E-03	**
0.03742005	3.94E-11	***
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0.04021554	3.05E-07	**
0.04027352	1.75E-06	**
0.03872676	4.03E-03	**
0.03721305	1.26E-06	**
0.04186469	3.72E-06	**
0.03944574	1.11E-03	**
0.03865788	4.36E-10	***
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0.03927799	1.56E-05	**
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0.03828111	2.31E-07	**
0.04150776	7.07E-05	**
0.03719407	3.47E-12	***
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0.03883147	2.14E-02	*
0.03673888	5.78E-13	***
0.03853709	3.68E-03	**
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0.03920096	2.77E-04	**
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0.03828081	3.31E-04	**
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0.04134772	6.16E-06	**
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0.03760864	9.29E-07	**
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0.03821269	1.39E-05	**
0.03902323	9.33E-05	**
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0.03787329	2.28E-03	**
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0.03982273	5.05E-03	*

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0.03810226	2.45E-03	**
0.03842179	4.04E-03	*
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0.0384317	4.15E-02	*
0.03861126	8.17E-05	**
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0.03911718	2.79E-04	**
0.03952172	7.89E-04	**
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0.09904322	4.02E-02	*
0.09968656	2.05E-02	*
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0.11034884	8.53E-04	**
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0.04773862	8.29E-04	**
0.04125935	4.01E-02	*
0.04243584	3.01E-02	*
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0.04077419	8.48E-03	*

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0.04454591	1.13E-02	*
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0.04384921	8.58E-05	**
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0.04365625	1.38E-03	**
0.04333172	2.64E-03	**
0.04488083	7.30E-08	***
0.04353199	1.52E-03	**

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0.04210858	5.43E-03	*
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0.09389373	3.81E-04	**
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0.09027541	1.33E-02	*

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0.09397789	2.03E-04	**
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0.09063766	2.19E-04	**
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0.08965479	4.22E-02	*
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0.03964756	2.31E-02	*
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0.03911572	1.22E-02	*
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0.03824248	6.03E-03	*

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0.04543378	2.81E-03	**

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0.04322693	4.43E-02	*
0.04386303	1.07E-02	*
0.044378	1.22E-03	**
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0.04347184	6.00E-03	*
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0.11523301	1.29E-02	*
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0.04143673	1.12E-03	**
0.04456822	2.55E-02	*
0.04628958	3.16E-02	*
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0.04413621	2.45E-02	*

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0.04158637	4.02E-03	**
0.04199052	8.08E-06	**
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0.04137853	1.52E-02	*
0.0407238	8.68E-03	*
0.04146006	1.77E-02	*
0.04118771	2.72E-03	**
0.04099257	1.37E-02	*
0.04327898	8.08E-03	*
0.0505837	3.52E-02	*
0.04245466	2.97E-02	*
0.04168788	7.02E-03	*
0.04137182	4.02E-04	**
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0.04456447	4.27E-02	*
0.04213999	3.97E-03	**
0.04083262	3.60E-03	**
0.04058982	4.96E-02	*
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0.0405974	1.14E-02	*
0.04057569	1.18E-04	**
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0.04187334	2.43E-02	*
0.04274795	1.39E-02	*
0.04219944	7.14E-06	**
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0.0420321	4.39E-02	*
0.04207907	1.29E-02	*
0.04103147	3.06E-02	*
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0.0410014	1.12E-02	*
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0.04121808	3.71E-02	*
0.04138024	7.39E-05	**
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0.03938914	3.92E-04	**

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0.03967219	1.38E-03	**
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0.03929813	3.15E-04	**
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0.04001827	1.39E-02	*
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0.0397116	2.40E-02	*
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0.10244904	4.57E-03	*
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0.10626712	2.25E-09	***
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0.09232415	2.57E-02	*
0.09044575	2.88E-02	*
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0.03920831	2.83E-02	*
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0.04140482	1.06E-06	**
0.04293601	1.33E-03	**
0.04399241	4.42E-05	**
0.03983466	1.34E-02	*
0.04143815	4.21E-04	**
0.04118736	3.15E-03	**
0.04031368	3.04E-02	*
0.04069153	1.55E-02	*
0.0462074	6.48E-19	***
0.04071687	8.46E-04	**
0.04058385	2.13E-05	**
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0.04061699	1.80E-06	**
0.04089278	2.91E-02	*
0.03932525	2.21E-02	*
0.04207819	6.83E-03	*
0.04332422	1.25E-09	***
0.0399208	7.22E-04	**
0.04050596	2.04E-02	*
0.04128137	9.78E-03	*
0.03960052	9.06E-04	**
0.04209875	1.33E-02	*
0.0393014	8.92E-03	*
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0.03930456	1.74E-06	**
0.04118889	8.24E-04	**
0.03898206	4.10E-11	***
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0.04038609	1.87E-02	*
0.04215079	1.01E-03	**
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0.04146744	1.21E-03	**
0.04527658	3.01E-03	**
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0.04134633	7.61E-03	*
0.04224738	7.48E-04	**
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0.0389675	1.36E-04	**
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0.04059661	2.28E-02	*
0.04040534	5.26E-04	**

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0.0396779	1.45E-04	**
0.03940741	1.33E-02	*
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0.04029976	1.49E-02	*
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0.0405911	7.90E-03	*
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0.12792001	7.02E-06	**
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0.10279996	1.13E-03	**
0.114134	2.51E-03	**
0.10560735	4.70E-02	*
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0.10652272	2.90E-06	**
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0.10179484	6.07E-03	*
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0.11067964	2.38E-02	*
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0.10835882	5.98E-04	**

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0.1140069	2.56E-05	**
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0.10427947	3.98E-02	*
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0.03929519	2.03E-03	**
0.0382978	4.45E-04	**
0.0380143	4.15E-04	**
0.03828498	3.11E-03	**
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0.03883628	3.60E-03	**
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0.03976036	1.54E-02	*

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0.03929829	2.06E-02	*
0.03978485	2.31E-02	*
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0.03835356	1.08E-11	***
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0.03944553	2.83E-04	**
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0.03972129	3.67E-02	*
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0.03956322	4.53E-02	*
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0.03943329	1.81E-04	**

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0.03791807	4.77E-02	*
0.0385469	4.63E-03	*
0.03712945	4.78E-02	*
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0.03849181	2.44E-05	**
0.03745303	1.90E-03	**
0.04221586	1.07E-10	***
0.03737385	2.20E-02	*
0.03715565	2.18E-02	*
0.03995515	9.62E-07	**
0.03756504	1.93E-02	*
0.03688117	2.17E-02	*
0.03653448	7.05E-09	***
0.03720579	3.08E-03	**
0.03788152	1.59E-02	*
0.03747013	1.68E-03	**
0.03901616	3.08E-03	**
0.03832634	3.79E-02	*
0.0373907	1.21E-04	**
0.03745228	2.96E-02	*
0.03671403	1.89E-03	**
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0.03650745	1.10E-06	**
0.03853913	4.58E-02	*
0.03830319	8.16E-03	*
0.03843993	1.33E-02	*
0.04145659	3.92E-03	**
0.03768979	2.97E-02	*
0.03761447	3.76E-02	*
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0.03807482	2.18E-03	**
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0.03884527	2.33E-04	**
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0.03802249	1.69E-02	*
0.03818728	2.13E-03	**
0.03717437	3.46E-02	*
0.03869131	1.25E-03	**
0.03728538	2.94E-02	*
0.03866734	1.27E-02	*
0.03884477	3.46E-03	**
0.03866269	1.14E-02	*
0.04273832	1.91E-07	**
0.03927943	1.08E-08	***
0.03730161	2.43E-02	*
0.03812116	6.09E-03	*

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0.03827554	1.94E-02	*
0.0396227	1.63E-04	**
0.03848924	3.14E-02	*
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0.03673911	8.94E-05	**
0.03747121	2.76E-03	**
0.03782494	2.95E-02	*
0.03728803	4.54E-04	**
0.04123449	8.35E-05	**
0.03704237	3.19E-02	*
0.03705469	6.85E-04	**
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0.04069993	2.42E-03	**
0.03706053	6.15E-03	*
0.03709089	3.33E-05	**
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0.03665734	3.13E-05	**
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0.03769381	4.56E-02	*
0.03888581	2.28E-02	*
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0.04112159	1.96E-03	**
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0.03716367	3.61E-02	*
0.03920017	3.22E-03	**
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0.04027917	3.68E-03	**
0.03728833	3.44E-03	**
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0.03760669	2.50E-03	**
0.04010305	2.85E-03	**
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0.04012832	2.93E-11	***
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0.03974652	1.35E-03	**
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0.03864914	1.17E-02	*
0.03807198	2.10E-05	**
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0.03898115	1.65E-02	*
0.03833695	1.12E-02	*
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0.03752342	9.03E-03	*
0.03822867	8.71E-07	**
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0.04065293	1.04E-05	**
0.03794453	1.36E-02	*
0.03781471	1.56E-03	**
0.03755132	3.16E-03	**
0.03915561	2.71E-04	**
0.04052098	3.41E-11	***
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0.0390325	2.08E-04	**
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0.03802476	1.38E-03	**
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0.03722205	5.01E-07	**

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0.03937832	2.06E-03	**
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0.03910238	8.53E-08	***
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0.04193499	3.81E-02	*
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0.03913134	3.10E-03	**

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0.0374805	5.70E-03	*
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0.08806311	2.43E-02	*
0.08685931	1.64E-02	*
0.0890436	9.92E-05	**
0.09892084	9.93E-06	**
0.09581172	7.88E-05	**
0.08684775	4.61E-02	*
0.08743106	1.74E-03	**
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0.10075298	1.71E-05	**
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0.09305713	5.58E-05	**
0.10487476	4.02E-04	**
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0.09110137	2.25E-02	*
0.08622585	1.54E-03	**
0.08572062	2.22E-02	*
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0.08784581	2.50E-02	*
0.08949072	4.33E-03	*
0.09414082	2.00E-02	*
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0.09121392	3.82E-04	**

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0.08805664	1.69E-03	**
0.09668428	1.16E-04	**
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0.08836639	9.02E-04	**
0.08870869	9.38E-03	*
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0.09350738	1.96E-03	**
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0.0381093	7.07E-05	**
0.03982017	1.94E-04	**
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0.03720442	4.99E-02	*
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0.04146457	3.89E-02	*
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0.04054109	8.61E-10	***
0.03719078	4.86E-04	**
0.03782598	1.09E-02	*
0.03817604	1.97E-05	**
0.03793318	4.90E-02	*
0.03912935	1.01E-03	**
0.03720348	4.68E-03	*
0.03556081	1.60E-13	***
0.03705665	8.35E-03	*
0.0381208	7.60E-06	**
0.03649	3.98E-14	***
0.03794422	1.56E-05	**
0.03760812	2.69E-03	**
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0.03887923	2.30E-04	**
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0.03804464	1.54E-02	*
0.04140033	1.89E-02	*
0.03731734	3.72E-02	*
0.0398684	1.83E-02	*
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0.0392396	2.50E-03	**
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0.03792129	4.45E-03	*
0.03713487	4.15E-04	**
0.03758684	6.40E-03	*
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0.0379145	1.21E-02	*
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0.10435822	1.57E-02	*
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0.1069987	7.17E-03	*
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0.10678017	3.86E-03	**
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0.03902818	4.00E-02	*
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0.03867445	7.32E-04	**
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0.03910605	2.97E-04	**
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0.03997499	1.30E-02	*
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0.04062698	2.57E-02	*

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0.04793807	2.50E-02	*
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0.04109063	2.61E-04	**
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0.04298503	3.73E-02	*

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0.04064247	1.73E-02	*
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0.0394082	2.89E-02	*
0.0384793	2.32E-08	***
0.03745984	1.81E-06	**
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0.03930314	2.24E-03	**
0.03829356	1.90E-04	**
0.03877061	1.41E-03	**
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0.03898773	2.17E-04	**
0.03937433	5.90E-09	***
0.03972529	1.55E-04	**
0.03883962	2.01E-02	*
0.036863	2.73E-11	***
0.03963008	3.88E-02	*
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0.03979125	3.66E-04	**
0.03898135	1.23E-04	**
0.03903816	1.42E-07	**
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0.03939464	9.55E-03	*
0.0388018	2.99E-03	**

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0.04008476	2.76E-02	*
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0.04131829	2.76E-02	*
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0.09139137	2.34E-04	**
0.08948346	3.31E-03	**
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0.08590317	4.94E-02	*
0.09342288	4.65E-04	**
0.08761445	3.36E-02	*
0.08469562	3.26E-03	**
0.08358182	5.21E-03	*
0.08815026	3.83E-04	**
0.09853504	2.42E-07	**
0.08889639	1.84E-03	**
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0.08729396	3.96E-05	**
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0.0908608	6.57E-05	**
0.08321939	3.57E-02	*
0.0877316	2.48E-02	*
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0.09179611	5.61E-04	**
0.08503849	7.17E-04	**
0.09208964	7.20E-04	**
0.09174928	2.44E-04	**
0.08545257	1.47E-04	**
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0.093076	4.38E-02	*

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0.092377	2.67E-04	**
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0.08653574	9.64E-03	*
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0.091104	1.47E-02	*
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0.04160055	2.54E-03	**
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0.11168095	6.31E-05	**
0.11063385	5.26E-04	**
0.10803356	3.52E-03	**
0.11614977	4.69E-04	**
0.11193634	3.87E-06	**
0.12762934	5.42E-08	***
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0.11444471	8.72E-04	**
0.10899986	2.96E-03	**
0.1140836	7.59E-03	*
0.12924651	8.16E-07	**
0.10967325	1.92E-02	*
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0.12572563	2.33E-05	**
0.1130832	4.64E-03	*
0.11356233	1.34E-02	*
0.13426218	2.72E-05	**
0.1295887	2.44E-07	**
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0.11788409	3.05E-03	**

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0.10858812	2.25E-02	*
0.103721	1.43E-02	*
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0.10397146	2.40E-02	*
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0.10489282	1.74E-03	**
0.12183507	4.83E-04	**
0.13005795	9.27E-06	**
0.11572111	3.49E-05	**
0.10642929	4.36E-02	*
0.14121076	2.23E-09	***
0.11147859	4.53E-02	*
0.10503564	1.20E-02	*
0.10594528	2.84E-02	*
0.10707027	2.36E-02	*
0.10436783	5.14E-03	*
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0.12957179	3.59E-05	**
0.12561014	7.99E-08	***
0.12721675	3.47E-06	**
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0.12834641	1.62E-06	**
0.12475425	8.41E-05	**
0.1047128	6.66E-03	*
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0.03866265	3.24E-02	*
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0.03873427	3.33E-02	*
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0.04427779	2.81E-02	*
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0.03844059	2.00E-02	*
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0.03782448	7.97E-03	*
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0.04128185	4.17E-05	**
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0.04028262	2.47E-02	*
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0.03782853	1.33E-03	**
0.03917126	5.98E-03	*

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0.03778172	5.48E-09	***
0.04019676	1.56E-05	**
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0.03794527	7.89E-05	**
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0.03981691	1.08E-02	*
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0.09614975	6.19E-04	**
0.09470805	1.18E-02	*
0.10477391	2.57E-02	*
0.0969002	7.99E-04	**
0.10010451	1.95E-04	**
0.10295009	5.29E-06	**
0.09901447	5.80E-06	**
0.10596506	6.41E-08	***
0.1068901	3.12E-06	**
0.0950774	3.05E-02	*

0.09490792	2.02E-03	**
0.09168582	1.18E-03	**
0.09841741	2.40E-03	**
0.09496821	2.12E-02	*
0.10702678	6.40E-07	**
0.09322294	3.62E-03	**
0.09270415	4.44E-02	*
0.09245639	3.68E-02	*
0.09824124	1.34E-04	**
0.11341255	6.39E-09	***
0.0978439	5.67E-04	**
0.09856696	2.98E-06	**
0.11744246	3.79E-09	***
0.09653765	2.31E-03	**
0.10047112	9.19E-07	**
0.09824025	1.90E-02	*
0.09217199	4.83E-02	*
0.1030979	1.33E-02	*
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0.09500647	3.02E-02	*
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0.10336506	1.00E-05	**
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0.09834441	2.93E-04	**
0.10036894	6.09E-04	**
0.10649914	2.75E-08	***
0.09966631	2.28E-06	**
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0.09387514	1.72E-02	*
0.10737607	9.28E-05	**
0.09824166	9.32E-04	**
0.10741186	4.20E-04	**
0.09767098	1.44E-03	**
0.09374439	1.25E-02	*
0.09935512	3.95E-04	**
0.09509628	5.35E-03	*
0.09661064	2.21E-05	**
0.0910673	2.18E-02	*
0.10368118	3.42E-03	**
0.10589378	2.58E-02	*
0.1027739	3.41E-02	*
0.09476763	6.74E-04	**
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0.10115561	9.94E-06	**
0.09874891	4.94E-03	*
0.10258785	6.28E-04	**
0.0926376	4.79E-02	*
0.10543016	1.20E-10	***
0.095184	1.47E-02	*

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0.09679952	1.34E-02	*
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0.10112295	2.21E-06	**
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0.09810992	2.93E-04	**
0.10847345	1.96E-06	**
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0.09485271	7.34E-04	**
0.09793732	1.59E-04	**
0.09346331	1.58E-03	**
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0.10033909	1.18E-05	**
0.09851061	6.39E-07	**
0.09395575	9.48E-03	*
0.09430293	2.36E-02	*
0.09649709	2.57E-02	*
0.10297051	2.25E-06	**
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0.09400409	1.21E-02	*
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0.09868607	2.83E-04	**
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0.10789228	2.94E-04	**
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0.09087265	4.22E-02	*
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0.10146998	4.85E-07	**
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0.09388536	3.39E-04	**
0.08808724	4.17E-02	*
0.0884492	2.09E-02	*
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0.08709299	2.02E-02	*
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0.0887325	1.37E-02	*
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0.09192283	1.33E-02	*
0.08582339	2.59E-02	*
0.08684904	4.78E-02	*
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0.08888807	4.54E-02	*

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0.08444003	3.24E-02	*
0.08547818	2.23E-02	*
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0.09590291	2.05E-03	**
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0.08752416	1.42E-03	**
0.0914285	7.53E-08	***
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0.08766242	2.59E-02	*
0.09184584	3.49E-06	**
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0.09660289	4.20E-09	***
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0.04734658	1.97E-11	***
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0.04086152	1.87E-09	***
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0.10300879	2.12E-03	**
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0.10575185	3.77E-02	*

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0.10020127	2.64E-02	*
0.10811632	3.73E-02	*
0.11223635	1.10E-03	**
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0.11209164	1.77E-02	*
0.10404059	1.06E-02	*
0.11266038	5.11E-04	**
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0.10291553	4.18E-04	**
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0.1164796	8.61E-05	**
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0.10102585	1.83E-02	*
0.10121735	2.48E-02	*
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0.10328656	8.17E-04	**
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0.11122861	2.82E-03	**
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0.10120862	2.93E-03	**
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0.04420827	1.10E-03	**
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0.04153974	2.16E-04	**
0.03966124	1.02E-03	**
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0.03938738	1.97E-02	*

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0.04125327	1.89E-02	*
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0.04180884	5.82E-04	**
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0.0406439	1.58E-02	*
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0.03946633	2.16E-02	*
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0.04231164	7.28E-05	**
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0.03956954	2.43E-03	**
0.03880103	2.70E-06	**
0.03959176	1.05E-02	*
0.04073606	2.45E-02	*
0.04426229	2.62E-03	**
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0.04089176	1.71E-04	**
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0.0400708	1.38E-02	*
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0.04017023	1.78E-03	**

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0.03877991	2.11E-09	***
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0.09467249	1.25E-02	*
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0.08856251	1.82E-03	**
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0.03987337	3.71E-03	**
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0.03971657	2.66E-06	**
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0.03750578	3.07E-02	*
0.03700728	5.62E-03	*
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0.0383195	3.87E-02	*
0.03723144	3.92E-02	*

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0.04237878	2.69E-02	*
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0.03703971	2.28E-02	*
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0.03835655	9.70E-06	**
0.0367264	1.17E-03	**
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0.03680818	2.87E-02	*
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0.03831765	8.14E-06	**
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0.03707151	4.34E-02	*
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0.03922412	2.61E-03	**

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0.03650802	2.58E-10	***
0.03675737	8.18E-03	*
0.03547323	5.43E-04	**
0.03767723	1.34E-10	***

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0.03547752	3.42E-02	*
0.041536	2.50E-16	***
0.03647029	3.90E-04	**
0.03718287	3.58E-02	*
0.03568821	1.11E-03	**
0.03604166	2.58E-03	**
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0.03622409	2.82E-08	***
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0.03658798	3.00E-05	**
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0.03616124	2.12E-02	*
0.0356513	1.35E-02	*
0.03583131	2.77E-03	**
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0.03555621	1.12E-05	**
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0.03935358	4.86E-03	*
0.03997935	5.79E-06	**

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0.03870147	8.60E-03	*
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0.03964167	7.83E-04	**
0.0413409	2.39E-04	**
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0.03998886	6.10E-06	**
0.04287757	2.13E-03	**
0.04022022	2.28E-06	**
0.03855474	1.48E-02	*
0.03811766	7.36E-04	**
0.03980743	5.34E-03	*
0.03881541	1.11E-05	**
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0.03913312	2.93E-02	*
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0.03848716	9.83E-05	**
0.03885497	5.01E-03	*
0.04025594	3.32E-05	**
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0.03881969	4.86E-04	**
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0.03899636	5.04E-04	**
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0.03986333	7.22E-03	*
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0.03980109	2.32E-02	*
0.03958171	3.65E-03	**
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0.03902062	1.03E-02	*
0.09665088	8.71E-03	*
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0.08800279	3.95E-02	*

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0.08927244	5.24E-03	*
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0.04378947	4.60E-02	*
0.04404936	3.67E-02	*
0.0456012	4.21E-03	*
0.04314557	3.72E-03	**
0.04348237	8.95E-03	*
0.04428373	1.22E-02	*
0.05124335	3.70E-02	*
0.04655525	1.59E-02	*
0.04391318	3.04E-03	**
0.04187101	4.99E-02	*
0.04355377	4.32E-03	*
0.0423562	1.09E-02	*
0.04334981	2.16E-02	*
0.04209364	1.02E-04	**
0.04304564	2.00E-03	**
0.04496926	1.20E-03	**
0.04292066	3.48E-02	*
0.04361589	3.07E-04	**
0.04226873	4.50E-02	*
0.04528371	1.76E-02	*
0.04262775	1.91E-02	*
0.04434131	3.20E-02	*
0.04272306	1.85E-02	*
0.05024693	7.12E-03	*
0.04219098	7.85E-03	*
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0.04282069	1.53E-02	*
0.0424307	2.04E-02	*
0.04453358	3.76E-02	*
0.04526327	3.20E-02	*
0.04217681	1.42E-03	**
0.04222137	1.12E-03	**
0.04408431	2.38E-03	**
0.04287468	1.61E-02	*
0.04366239	1.49E-02	*
0.04215715	2.68E-03	**
0.04420494	4.31E-02	*
0.04313573	1.16E-03	**
0.04368773	1.31E-02	*
0.04362241	1.16E-02	*
0.04344603	2.39E-02	*
0.04329453	6.73E-03	*

0.04726795	3.43E-02	*
0.04181459	1.61E-02	*
0.04310978	5.61E-03	*
0.04516585	4.66E-02	*
0.04230878	2.35E-03	**
0.04326975	2.10E-03	**
0.04286058	2.67E-04	**
0.04228352	3.17E-02	*
0.0458204	4.84E-02	*
0.0438893	4.90E-02	*
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0.04280813	3.39E-03	**
0.04204356	1.17E-02	*
0.04350766	1.29E-02	*
0.04319903	1.65E-03	**
0.04323233	5.77E-05	**
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0.04270675	1.06E-02	*
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0.03951983	8.41E-04	**
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0.0396614	4.38E-02	*
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0.04057019	2.00E-02	*
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0.03936326	1.13E-04	**
0.0393009	1.04E-04	**
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0.04006401	1.60E-05	**
0.04005222	3.23E-02	*
0.04562582	2.06E-10	***
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0.03926472	5.89E-04	**
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0.04024304	1.77E-05	**
0.03955421	4.35E-05	**
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0.04341348	3.76E-02	*
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0.04078334	2.02E-02	*
0.03872954	6.50E-15	***
0.04321289	4.24E-02	*
0.04036473	6.50E-03	*
0.03913174	2.57E-06	**

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0.04006148	3.00E-02	*
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0.04119305	3.31E-05	**
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0.04262932	4.94E-04	**
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0.04347855	1.14E-07	**
0.04097571	9.63E-08	**
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0.04590571	2.73E-08	***
0.03995604	7.13E-05	**
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0.0392662	1.13E-07	**
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0.03967926	2.93E-05	**
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0.0425376	2.91E-05	**
0.04265763	1.04E-03	**
0.03914605	2.28E-06	**
0.04418251	1.30E-04	**
0.04107574	4.73E-06	**
0.0442134	4.85E-05	**
0.04171393	3.43E-03	**
0.03957563	1.56E-03	**
0.04101112	6.04E-03	*
0.04007513	1.50E-03	**
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0.04065282	2.66E-03	**

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0.03988587	8.18E-03	*
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0.04151359	6.98E-07	**
0.03907098	1.87E-10	***
0.04003523	3.73E-03	**
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0.04170749	7.74E-04	**
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0.08697048	2.10E-03	**

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0.04307835	1.13E-02	*
0.03840936	3.43E-07	**
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0.03979396	2.83E-04	**
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0.04029525	3.47E-03	**

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0.04249888	5.25E-05	**
0.04225204	1.13E-02	*
0.04478875	2.10E-02	*
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0.04432659	2.03E-04	**
0.04225727	2.70E-04	**
0.04245363	6.92E-03	*
0.04214574	3.37E-03	**
0.04424716	4.74E-02	*
0.04359477	6.81E-03	*
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0.04752021	1.59E-02	*
0.04198471	3.39E-04	**
0.04406184	2.77E-03	**
0.04205049	2.80E-02	*
0.04309919	2.59E-02	*
0.04336672	3.50E-02	*
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0.04174349	7.36E-03	*
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0.0428886	2.69E-02	*
0.04376273	1.16E-02	*
0.04449189	1.22E-02	*
0.04200966	3.98E-02	*
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0.04431457	2.32E-02	*
0.04320834	5.61E-04	**
0.04109308	4.15E-02	*
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0.04211724	9.32E-04	**
0.04387186	9.46E-03	*
0.04505829	2.68E-06	**
0.04482585	1.01E-03	**
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0.09419043	1.50E-02	*
0.09174731	1.46E-02	*

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0.09431849	3.33E-02	*
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0.03975816	4.38E-09	***
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0.04290046	2.64E-04	**
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0.04132862	2.07E-03	**
0.03965312	3.30E-03	**
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0.03950722	1.10E-02	*
0.03845813	8.02E-06	**
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0.03953597	2.17E-02	*
0.03930711	4.52E-04	**
0.03829955	7.77E-11	***
0.04040883	1.45E-03	**
0.03968146	2.07E-05	**
0.04177641	3.30E-06	**
0.04108614	2.94E-02	*
0.04025407	4.92E-07	**
0.03949435	2.44E-07	**
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0.03926501	3.66E-02	*
0.0390844	3.54E-03	**
0.03761292	2.12E-05	**
0.03809253	6.58E-05	**
0.03806659	2.87E-05	**
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0.04366315	2.37E-03	**
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0.03833687	2.11E-02	*
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0.039398	3.20E-05	**
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0.03857017	3.35E-02	*
0.03791084	3.64E-03	**
0.04345725	5.75E-11	***
0.03811155	4.52E-02	*
0.03772263	1.31E-05	**

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0.03747186	1.90E-02	*
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0.03894457	5.61E-03	*
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0.04087166	2.39E-02	*
0.03626231	9.10E-15	***
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0.03823739	4.62E-06	**
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0.0390316	6.11E-04	**
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0.09687435	4.72E-02	*
0.09625048	2.73E-02	*
0.09850008	2.56E-02	*
0.1043755	1.21E-05	**
0.09635924	2.84E-02	*
0.10366396	1.72E-03	**
0.10173992	4.94E-04	**
0.09828175	9.97E-03	*
0.0953538	3.79E-03	**
0.09725695	7.46E-05	**
0.10087851	2.23E-04	**
0.10367184	9.80E-04	**
0.0985107	6.71E-04	**
0.12738641	6.28E-09	***
0.0953771	6.99E-04	**
0.10042131	6.62E-06	**
0.0949235	2.44E-02	*
0.10080198	3.81E-05	**
0.09927393	2.33E-03	**
0.09633916	8.15E-03	*
0.09661236	4.86E-03	*
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0.10104669	1.54E-04	**
0.10219068	1.33E-02	*
0.10388466	2.06E-07	**
0.09632559	1.10E-02	*
0.09813307	1.36E-02	*
0.10011872	2.01E-02	*
0.09622792	1.27E-03	**
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0.11706977	1.47E-07	**
0.10004673	7.62E-04	**
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0.09642501	3.31E-03	**
0.10065054	2.02E-02	*
0.10019867	8.76E-04	**
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0.10650826	5.11E-03	*

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0.09543357	1.23E-02	*
0.09807543	1.02E-04	**
0.10249151	5.81E-04	**
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0.09637812	4.07E-02	*
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0.09704011	1.48E-02	*
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0.10923502	4.81E-02	*
0.11232255	3.37E-10	***
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0.10638451	6.07E-06	**
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0.11709062	1.84E-09	***
0.09590549	3.43E-03	**
0.1051037	4.12E-03	*
0.10264992	6.17E-06	**
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0.09696671	1.61E-02	*
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0.10443156	1.03E-04	**
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0.10147104	3.09E-03	**
0.0960377	1.31E-03	**

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0.0967172	2.01E-03	**
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0.09749793	3.57E-02	*
0.0960217	3.42E-02	*
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0.09873108	2.83E-05	**
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0.1154983	1.60E-10	***
0.10088786	1.18E-02	*
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0.10045776	1.51E-04	**
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0.09397158	6.40E-03	*
0.09974937	5.00E-05	**

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0.04413524	3.60E-02	*
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0.04073376	8.52E-03	*
0.04130622	6.65E-03	*
0.04040483	2.10E-03	**
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0.04140798	4.47E-02	*
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0.04441588	2.47E-02	*
0.04039311	2.94E-02	*

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0.11032119	2.19E-05	**
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0.04005825	4.44E-02	*
0.04101589	3.39E-07	**
0.03952633	7.75E-04	**
0.03949648	2.29E-02	*
0.03798922	3.04E-10	***
0.0434863	5.84E-06	**
0.03811166	4.74E-02	*
0.03690005	1.82E-06	**
0.03944712	3.50E-02	*
0.03686849	5.89E-07	**
0.03749918	2.76E-03	**
0.03709175	1.39E-04	**
0.03806982	3.68E-09	***
0.03859565	3.92E-02	*
0.04007547	1.00E-03	**
0.03717027	2.18E-05	**
0.03679024	1.88E-07	**
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0.03982969	3.95E-06	**
0.03811979	2.19E-02	*
0.03683281	1.42E-07	**
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0.0376995	2.40E-03	**
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0.04170989	7.97E-05	**
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0.0386414	5.86E-09	***
0.04194582	3.44E-03	**
0.03953121	4.69E-04	**
0.03926644	8.15E-04	**
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0.03783132	4.79E-02	*
0.03722341	9.48E-08	**
0.03783877	4.48E-03	*
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0.03665517	1.24E-08	***
0.03821193	2.20E-05	**
0.03754477	3.18E-04	**
0.03703384	8.06E-09	***
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0.03804306	3.22E-02	*
0.04069825	1.21E-03	**
0.03804186	8.11E-18	***
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0.03817459	2.93E-03	**
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0.03760832	2.02E-03	**
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0.0372644	3.05E-04	**
0.03718592	3.09E-04	**
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0.03787724	1.69E-02	*
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0.03864615	3.15E-03	**
0.03813551	1.10E-04	**
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0.04047141	1.48E-05	**
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0.03893177	2.03E-02	*
0.03849282	3.72E-02	*
0.03945457	2.08E-03	**
0.03876623	2.49E-02	*
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0.08977368	4.89E-02	*
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0.0909579	6.69E-04	**
0.08911644	2.62E-02	*
0.090358	4.63E-04	**
0.08965631	3.09E-02	*
0.09117011	1.01E-02	*
0.09069514	9.14E-03	*
0.08986345	8.87E-04	**
0.09070693	1.39E-02	*
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0.09225136	3.42E-04	**
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0.10307222	1.52E-03	**
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0.0934058	9.83E-04	**
0.08988731	1.33E-03	**
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0.09417724	1.01E-03	**

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0.10707	2.55E-04	**
0.12141751	1.54E-02	*
0.12378025	3.99E-02	*
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0.11935713	4.41E-03	*
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0.12661518	9.42E-06	**
0.12454153	5.14E-03	*
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0.12156131	1.07E-02	*
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0.11655825	3.39E-02	*
0.11773501	3.97E-03	**
0.1188952	3.56E-02	*
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0.13338225	4.30E-05	**
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0.12854977	1.01E-03	**
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0.12489373	2.10E-03	**
0.10734243	4.77E-02	*
0.1403243	4.55E-05	**
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0.12134629	4.86E-02	*
0.18268393	6.70E-07	**
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0.12614776	1.48E-03	**
0.1309854	1.62E-03	**
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0.12988494	2.82E-06	**

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0.03814376	1.97E-04	**
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0.0383114	2.24E-02	*
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0.03829505	4.75E-04	**
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0.03777087	2.20E-08	***
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0.03836825	1.40E-03	**
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0.08667065	1.58E-02	*
0.08383848	2.82E-02	*
0.08842031	2.82E-02	*
0.08383959	8.80E-03	*
0.08659177	3.61E-02	*
0.08613065	2.53E-02	*
0.08885016	1.91E-04	**
0.08818379	2.65E-04	**
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0.09471606	1.67E-04	**
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0.08433358	3.55E-03	**
0.08340467	9.59E-03	*
0.08838967	4.19E-03	*
0.08662873	4.33E-03	*
0.08707298	7.16E-03	*
0.08632649	3.16E-04	**
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0.08692152	4.57E-02	*
0.08394377	1.14E-02	*
0.08509898	1.62E-02	*
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0.08557236	3.54E-03	**

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0.08631331	4.93E-04	**
0.08418818	2.65E-02	*
0.08586977	3.68E-04	**
0.08550623	1.63E-02	*
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0.08541937	3.88E-03	**
0.08749176	6.83E-04	**
0.09011779	5.49E-04	**
0.08578552	1.19E-03	**
0.08506597	1.49E-04	**
0.0894777	5.52E-04	**
0.0927415	1.34E-05	**
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0.08684485	5.22E-03	*
0.08749746	2.91E-02	*
0.08669152	2.37E-02	*
0.08293171	4.35E-02	*
0.08610633	5.05E-03	*
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0.09004246	2.55E-02	*
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0.08589257	2.49E-02	*
0.08310751	2.30E-02	*
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0.08740349	3.07E-02	*
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0.09916346	2.82E-02	*
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0.09345568	1.86E-03	**
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0.03977972	1.18E-02	*

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0.03977846	2.58E-03	**
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0.03924845	1.81E-03	**

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0.10703896	5.46E-04	**
0.10067811	4.17E-02	*
0.10303049	4.93E-03	*
0.10098014	1.78E-02	*
0.09532548	3.82E-02	*
0.09502909	2.59E-02	*
0.09911814	3.62E-02	*
0.09464265	2.43E-02	*
0.09679435	2.09E-03	**
0.10544393	2.02E-03	**
0.09822366	2.88E-05	**
0.10294544	8.33E-04	**
0.10269544	1.72E-02	*
0.09529247	7.84E-03	*
0.09723638	1.78E-03	**
0.10572788	1.76E-02	*
0.10802956	3.67E-03	**
0.10132528	9.98E-04	**

0.1006043	1.93E-02	*
0.10677588	4.41E-02	*
0.09698598	1.03E-03	**
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0.09879544	1.16E-03	**
0.10282518	4.15E-03	*
0.09899114	4.95E-05	**
0.09795956	3.22E-02	*
0.09591024	3.51E-02	*
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0.09797452	6.00E-03	*
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0.10157293	5.26E-04	**
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0.10019032	2.75E-02	*
0.09868734	1.77E-02	*
0.09504501	1.29E-02	*
0.10010312	1.53E-02	*
0.09957395	7.28E-03	*
0.09703135	3.55E-02	*
0.10087095	9.73E-03	*
0.10120965	3.33E-03	**
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0.096257	4.99E-02	*
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0.09729935	2.16E-02	*
0.09705441	8.98E-03	*
0.10044409	2.07E-03	**
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0.10382763	3.24E-02	*
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0.10216572	9.62E-03	*
0.09545298	4.85E-03	*
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0.09664251	2.11E-02	*
0.09686441	1.55E-02	*
0.09873342	7.70E-06	**
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0.03799782	9.21E-07	**
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0.03876866	1.56E-04	**
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0.03961391	3.03E-03	**
0.04068541	2.83E-03	**
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0.03948522	3.01E-02	*
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0.04176243	2.36E-03	**
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0.04251862	3.90E-06	**
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0.03940847	2.66E-03	**
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0.04011571	3.13E-03	**
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0.04193298	1.35E-03	**
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0.0440387	1.00E-02	*

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0.04039771	1.42E-02	*
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0.04042076	2.31E-02	*
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0.04402914	1.76E-03	**
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0.03918249	1.01E-02	*
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0.04182168	2.55E-02	*
0.04400127	3.93E-02	*
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0.04100859	8.89E-08	***
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0.03968178	2.88E-02	*
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0.04095748	1.78E-03	**
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0.12913098	7.58E-04	**

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0.03711575	2.76E-02	*
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0.04288873	4.14E-02	*
0.04089437	2.26E-05	**
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0.04011565	3.97E-02	*
0.03945199	2.83E-02	*
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0.04003729	2.66E-03	*

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0.03879086	8.15E-08	***
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0.0396508	3.27E-04	**
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0.03868313	4.12E-02	*
0.03865461	1.56E-05	**
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0.03787804	4.02E-02	*
0.03776938	8.89E-05	**
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0.03675035	6.78E-09	***
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0.03942496	1.24E-02	*
0.04031708	3.12E-02	*

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0.03867061	3.23E-02	*
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0.03949151	8.85E-03	*

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0.10825134	1.24E-08	***
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0.03954064	1.82E-03	*
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0.03829579	1.18E-03	*
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0.03842995	4.16E-02	*
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0.03951708	6.18E-10	***
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0.03941356	2.84E-05	**
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0.083782	3.95E-02	*
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0.10004037	3.22E-02	*

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0.08751181	2.30E-04	**
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0.08904645	3.24E-04	**
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0.09315163	1.24E-02	*
0.09478071	5.39E-03	*
0.09943795	7.52E-05	**
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0.09251221	2.19E-02	*
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0.10158187	9.94E-04	*
0.09347877	2.19E-02	*
0.09380884	4.95E-02	*
0.0981537	2.56E-02	*
0.09739714	6.31E-03	*
0.09550947	1.62E-03	*
0.09765537	1.85E-02	*
0.09590043	3.12E-03	*
0.09489065	4.54E-02	*
0.10756227	1.74E-05	**
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0.11318646	3.79E-03	*
0.10878904	2.06E-02	*
0.1070515	3.21E-02	*
0.11161393	1.01E-02	*
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0.11457307	3.39E-02	*
0.12723437	2.34E-05	**
0.13579651	3.12E-09	***
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0.11032736	2.58E-02	*
0.11683737	1.75E-03	*
0.11947534	3.47E-03	*

0.11861755	2.18E-06	**
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0.04311435	3.22E-02	*
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0.08989835	4.92E-02	*
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0.09206267	9.19E-03	*
0.09073883	9.82E-03	*
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0.10650635	3.41E-03	*
0.09156323	2.20E-03	*
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0.08947284	4.67E-02	*
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0.0947131	5.54E-05	**
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0.11574878	3.63E-03	*
0.12731687	2.29E-04	**
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0.11482971	1.15E-02	*
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0.04140626	2.37E-04	**
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0.04079235	8.72E-04	*
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0.08791611	2.22E-02	*
0.09541532	2.21E-02	*
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0.0978185	3.12E-02	*
0.09146233	9.72E-03	*
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0.03845749	4.94E-08	***
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0.03968846	2.36E-02	*
0.0388058	3.87E-02	*
0.03962916	3.42E-02	*
0.04360635	1.31E-05	**
0.04403672	2.42E-09	***
0.03864898	9.64E-04	*
0.03951774	1.63E-02	*
0.03969966	1.78E-03	*
0.03892336	1.09E-03	*
0.03923031	3.86E-03	*
0.04189629	5.88E-03	*
0.03936122	3.32E-04	**
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0.08693875	2.11E-02	*
0.08663103	8.94E-03	*
0.10471154	1.82E-02	*
0.089143	1.23E-02	*
0.08925375	4.46E-02	*
0.09463654	4.90E-02	*

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0.09925957	7.67E-03	*
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0.09617825	2.44E-02	*
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0.08785576	2.95E-02	*
0.09025883	1.12E-05	**
0.08986351	5.77E-04	*
0.08950429	1.75E-02	*
0.08545615	3.30E-02	*
0.08744727	1.24E-02	*
0.08776324	4.97E-02	*
0.09019079	2.67E-02	*
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0.08868719	4.23E-02	*
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0.08571195	3.51E-02	*
0.08684087	1.68E-02	*
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0.08682287	1.78E-02	*
0.08774972	1.44E-02	*
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0.03660375	3.49E-04	**
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0.03765566	3.33E-02	*
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0.03710943	2.23E-02	*
0.03596761	2.40E-08	***
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0.03684131	1.98E-02	*
0.03591947	5.48E-07	**

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0.03464915	8.86E-18	***
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0.03611628	1.62E-05	**
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0.03613071	6.44E-09	***
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0.03737449	3.10E-07	**
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0.03764723	1.74E-04	**
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0.09216082	2.91E-04	**
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0.10114592	3.22E-06	**
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0.03731541	1.27E-06	**
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0.03848367	1.23E-02	*
0.03842335	6.40E-04	*
0.03862092	4.17E-05	**
0.03911781	9.23E-05	**
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0.04051133	1.13E-02	*
0.03700573	7.54E-10	***
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0.03809223	1.97E-02	*
0.03837457	1.71E-02	*
0.03949596	9.08E-05	**
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0.04183575	4.14E-02	*

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0.04065917	4.47E-02	*
0.0421956	3.29E-02	*
0.04014511	4.52E-02	*
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0.03983762	2.98E-02	*
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0.03798581	1.96E-06	**
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0.10413461	5.10E-03	*
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0.04180225	1.30E-02	*
0.04679846	3.05E-02	*
0.040968	4.66E-02	*
0.04642775	4.04E-07	**

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0.04064507	3.11E-02	*
0.04152497	3.69E-02	*
0.04085587	1.57E-04	**
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0.04064081	3.84E-03	*
0.04115143	3.06E-03	*
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0.11690828	4.35E-10	***
0.11795396	4.06E-10	***

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0.03954281	4.38E-05	**
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0.039268	5.31E-05	**
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0.04070431	3.38E-02	*
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0.11001251	1.16E-07	***
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0.09013374	1.83E-03	*
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0.0890286	3.59E-02	*

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0.09198658	5.07E-05	**
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0.03941035	4.75E-06	**
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0.03862262	1.59E-10	***
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0.04021493	2.52E-06	**
0.04086608	8.48E-05	**

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0.03873985	2.40E-12	***
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0.0403208	2.75E-02	*
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0.0392147	7.22E-10	***
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0.03880035	1.26E-02	*
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0.09779232	3.67E-03	*
0.09588709	4.67E-02	*
0.09664672	6.71E-03	*

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0.12619142	2.52E-04	**
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0.13329442	9.70E-08	***
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0.12192199	2.17E-02	*
0.11728539	2.66E-02	*
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0.13103944	1.23E-03	*
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0.12365317	1.05E-04	**
0.12286461	8.68E-09	***
0.13794021	5.47E-09	***
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0.12347703	2.91E-02	*
0.13260248	8.02E-06	**
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0.12324149	4.41E-05	**
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0.14796044	2.06E-07	**
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0.1179839	1.64E-02	*
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0.03709773	2.43E-05	**
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0.09448804	2.71E-03	*
0.09510099	1.29E-02	*
0.0938686	1.61E-02	*
0.09917774	2.84E-03	*
0.101141	2.92E-04	**
0.09744473	2.66E-04	**
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0.10939178	1.23E-02	*
0.11364561	2.71E-02	*
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0.11500625	1.03E-02	*
0.11273763	2.24E-02	*
0.14037406	2.32E-06	**
0.1376862	2.45E-08	***
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0.1166076	4.01E-02	*
0.12090304	1.90E-02	*
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0.11070016	4.33E-02	*
0.12882446	7.52E-05	**
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0.03911876	4.27E-06	**
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0.0391055	2.44E-09	***
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0.03886708	1.58E-02	*
0.03815828	3.32E-06	**
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0.03708162	1.09E-04	**
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0.03960712	4.34E-03	*
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0.03943786	1.14E-02	*
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0.03956639	3.63E-02	*
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0.03979477	2.63E-02	*

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0.03887793	5.70E-04	**
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0.03901943	3.50E-03	*
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0.04454662	4.79E-05	**
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0.03853952	7.93E-09	***
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0.0400047	5.53E-04	**

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0.03637109	3.43E-04	**

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0.04821535	4.82E-06	**
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0.0439383	4.63E-02	*
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0.04058601	2.36E-02	*
0.04672837	2.11E-04	**
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0.03940872	4.24E-02	*
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0.03926478	2.07E-02	*

0.03989412	3.21E-02	*
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0.03869605	3.25E-03	*
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0.03860114	3.46E-06	**
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0.10900081	9.70E-03	*
0.09756866	3.54E-02	*
0.10844016	4.96E-03	*
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0.09490743	1.55E-02	*
0.09451334	2.18E-02	*
0.09371404	2.28E-02	*
0.09657132	5.08E-04	**
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0.08248734	4.60E-02	*
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0.12340922	6.51E-09	***
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0.09717865	1.09E-02	*
0.1222164	2.37E-11	***
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0.09970861	3.27E-03	*
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0.09835231	1.80E-05	**
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0.09595008	4.98E-04	**

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0.09315432	7.01E-03	*
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0.09114541	1.74E-02	*
0.08608255	3.19E-02	*
0.08592619	3.60E-02	*
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0.09178811	6.94E-05	**
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0.09032695	4.13E-02	*
0.09504295	1.44E-04	**
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0.04026194	1.94E-04	**

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0.03912715	5.68E-04	**
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0.10624914	2.17E-02	*
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0.11657324	1.73E-02	*

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0.1100069	2.56E-03	*
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0.10671693	1.20E-02	*
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0.11663676	7.51E-03	*
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0.11854801	4.88E-02	*
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0.03728697	1.63E-02	*

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0.09213702	2.02E-04	**
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0.08694087	4.16E-02	*

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0.04043833	3.92E-07	**
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0.04129649	4.63E-02	*
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0.03786932	3.22E-02	*
0.03768374	5.16E-03	*
0.03696346	1.29E-04	**
0.04436707	8.79E-07	**
0.0424376	8.61E-08	***
0.03827028	1.02E-02	*

0.03810771	3.97E-02	*
0.03860519	2.83E-02	*
0.03654455	9.83E-08	***
0.0383165	3.24E-02	*
0.03677881	5.53E-04	**
0.03681746	2.24E-04	**
0.04013024	1.55E-02	*
0.04469673	2.50E-02	*
0.03747774	4.75E-02	*
0.03633988	3.83E-04	**
0.03931971	4.28E-04	**
0.03951451	5.14E-03	*
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0.0422288	2.60E-02	*
0.04203024	3.36E-02	*
0.04054716	3.80E-02	*
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0.09828938	1.64E-02	*
0.10291294	2.51E-06	**
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0.0432895	3.49E-03	*
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0.14566598	1.26E-06	**
0.13875754	2.19E-08	***
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0.14827364	5.01E-12	***
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0.08390385	1.74E-02	*

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0.03800678	1.18E-04	**
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0.03794193	4.04E-03	*

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0.03858019	6.69E-05	**
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0.03869107	4.33E-06	**
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0.03880171	4.28E-02	*
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0.03919691	3.05E-03	*
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0.03788072	9.04E-06	**
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0.0961645	3.84E-03	*

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0.10212481	2.96E-04	**
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0.14978894	1.24E-05	**
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0.09937222	9.30E-05	**
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0.12407702	5.03E-04	**
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0.03800387	5.88E-03	*

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0.03848207	1.48E-07	***
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0.03950428	2.85E-04	**
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0.03801415	7.06E-09	***
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0.04175951	4.60E-05	**
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0.03916166	2.67E-04	**
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0.09526271	2.82E-02	*
0.09451551	2.67E-02	*
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0.04175859	3.08E-02	*
0.0433696	2.06E-02	*
0.04143978	2.75E-03	*
0.0409751	4.26E-05	**
0.0424705	2.51E-02	*
0.04245619	3.95E-02	*
0.0391441	1.33E-02	*
0.03883088	1.76E-02	*
0.0387389	8.11E-04	*
0.03742078	1.86E-02	*
0.03652629	3.28E-05	**
0.04075394	3.41E-02	*
0.03781044	4.00E-02	*
0.0370501	2.80E-02	*
0.04076817	2.97E-02	*
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0.0382795	1.32E-02	*
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0.0868736	2.66E-02	*
0.09267108	1.19E-02	*
0.08890195	1.11E-03	*
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0.04005085	4.76E-02	*
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0.04059768	1.13E-02	*
0.04227541	3.66E-02	*
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0.04091554	5.89E-03	*
0.04117521	3.05E-03	*
0.03948433	7.74E-03	*
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0.04054397	1.91E-02	*
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0.04052861	2.60E-02	*
0.03969879	1.34E-05	**
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0.03789825	4.21E-02	*
0.0381368	1.45E-02	*
0.03894554	7.77E-03	*
0.03770927	3.76E-02	*

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0.04144854	3.77E-02	*
0.03823231	6.84E-05	**
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0.03741874	6.23E-06	**
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0.04123602	2.07E-04	**
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0.03983351	1.42E-02	*
0.03931992	2.33E-11	***
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0.04026676	5.70E-09	***
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0.03838664	5.16E-07	**
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0.08777801	1.67E-02	*
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0.03722036	6.78E-09	***
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0.09329822	1.75E-04	**
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0.09017998	7.02E-04	*
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0.04150054	1.30E-03	*

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0.14074021	1.87E-04	**
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0.096711	3.92E-02	*
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0.09030927	3.57E-04	**
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0.08989601	2.83E-02	*

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0.03983096	4.26E-05	**
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0.09147569	1.23E-02	*
0.09564927	1.15E-04	**
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0.04060915	4.66E-03	*
0.04114578	1.55E-02	*

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0.13334524	2.55E-02	*

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0.08228368	4.42E-02	*
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0.11223322	7.47E-03	*
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0.04288441	6.05E-03	*

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0.04549229	5.41E-03	*

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0.04479698	2.74E-02	*
0.0419338	6.33E-07	***
0.04031868	5.19E-03	*
0.03980259	9.53E-08	***
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0.09452369	2.62E-04	**
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0.0984799	1.72E-05	**
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0.10358565	1.06E-03	*

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0.08846262	2.44E-02	*
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0.0887726	4.53E-02	*
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0.04265117	4.72E-02	*

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0.09395404	5.73E-03	*
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0.09137161	3.14E-05	**
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0.09077998	4.64E-04	**
0.09254437	1.75E-05	**
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0.09339883	1.12E-02	*
0.09540855	4.84E-02	*
0.0899303	4.49E-03	*
0.09559192	1.28E-04	**
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0.09000958	4.55E-04	**
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0.04189944	1.04E-03	*
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0.04336555	4.88E-02	*

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0.09494671	3.76E-02	*
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0.10011383	4.75E-02	*
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0.03822327	6.05E-05	**
0.04249341	2.26E-04	**
0.04025012	1.07E-08	***

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0.08887214	3.31E-02	*
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0.10036502	2.98E-06	**
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0.11845849	2.86E-05	**
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0.09367645	3.17E-02	*
0.10629064	9.95E-05	**

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0.10948714	3.77E-07	***
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0.04233139	1.64E-04	**
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0.03833286	2.62E-03	*
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0.03967377	5.14E-05	**
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0.04109407	4.94E-02	*
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0.04559686	2.36E-02	*
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0.09192696	6.75E-04	**
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0.04070788	1.17E-02	*
0.04368326	4.24E-02	*
0.0458505	1.55E-02	*
0.04541913	1.16E-03	*
0.04978413	5.33E-04	**
0.04441596	1.03E-04	**
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0.08724668	1.86E-03	*
0.09500968	1.16E-02	*
0.08856317	1.52E-02	*
0.08937729	5.13E-03	*
0.08899819	4.17E-02	*
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0.0426853	3.05E-02	*
0.08494943	1.13E-02	*
0.08497575	8.19E-03	*
0.08604578	1.61E-03	*
0.09861524	6.13E-03	*
0.08722074	4.80E-04	**
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0.09412062	1.93E-02	*
0.09548307	2.77E-02	*

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0.0957078	1.24E-02	*
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0.09198843	4.77E-04	**
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0.09894354	3.49E-06	**
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0.03841835	8.81E-03	*
0.04102161	4.05E-02	*
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0.03971515	4.86E-05	**
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0.03859131	1.75E-02	*
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0.03757221	3.11E-07	***
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0.04196777	1.45E-05	**
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0.09538631	4.20E-03	*

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0.10528317	3.26E-04	**

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0.0884574	2.94E-02	*
0.09799484	7.85E-04	**
0.10462661	5.08E-03	*
0.09230286	5.90E-03	*
0.0366872	4.70E-02	*
0.03907089	1.72E-04	**
0.04044274	3.51E-02	*
0.03734169	1.23E-02	*
0.04234297	4.19E-04	**
0.04355863	1.07E-02	*
0.03747802	9.87E-05	**
0.03797684	1.46E-02	*
0.04026606	3.03E-02	*
0.04083091	1.91E-02	*
0.04624305	1.82E-02	*
0.04022469	3.11E-02	*
0.09365077	6.89E-03	*
0.09090775	4.03E-02	*
0.10213747	1.69E-04	**
0.09372209	2.46E-02	*
0.11841578	2.43E-09	***
0.10014489	1.71E-04	**
0.09161695	3.82E-02	*
0.08613598	1.84E-02	*
0.04382162	1.09E-02	*
0.04233761	3.84E-02	*
0.04437174	1.66E-02	*
0.04963103	3.29E-02	*
0.04289895	8.83E-04	**

0.09838434	8.69E-03	*
0.09710043	1.36E-02	*
0.10692386	2.73E-02	*
0.10362227	3.25E-02	*
0.10419414	9.92E-03	*
0.10920824	2.66E-02	*
0.10758972	4.07E-02	*
0.12198178	4.68E-02	*
0.08899627	2.81E-02	*
0.08997368	4.10E-02	*
0.09043153	8.01E-03	*
0.10675386	1.10E-03	*
0.09526007	2.57E-04	**
0.10070684	2.48E-02	*
0.10254933	4.00E-03	*
0.11033976	1.45E-04	**
0.09932085	1.69E-02	*
0.11109243	5.12E-05	**
0.09900643	3.27E-02	*
0.09833221	2.50E-02	*
0.10616677	3.56E-05	**
0.10027553	9.64E-03	*
0.11566517	6.50E-05	**
0.10441024	2.62E-05	**
0.11122061	2.42E-06	**
0.10237195	2.74E-02	*
0.1041178	1.01E-02	*
0.10733064	1.44E-06	***
0.09613529	4.14E-02	*
0.09638327	8.12E-03	*
0.10546179	1.84E-03	*
0.10655339	2.23E-04	**
0.10124803	8.45E-03	*
0.10403178	1.60E-04	**
0.09452228	1.79E-02	*
0.10807357	5.50E-03	*
0.09813637	1.95E-03	*
0.10460257	1.91E-04	**
0.09729023	1.21E-02	*
0.09744242	2.16E-03	*
0.1041592	1.77E-05	**
0.11401637	3.17E-02	*
0.11543278	7.94E-03	*
0.1268468	1.34E-02	*
0.11200918	1.97E-02	*
0.14565386	5.80E-06	**
0.12925361	6.17E-05	**
0.03930882	4.68E-02	*
0.03897573	7.82E-03	*
0.03806078	3.18E-02	*

0.04186132	1.27E-02	*
0.04518035	5.43E-04	**
0.03935717	2.87E-07	***
0.04260549	4.88E-03	*
0.04029541	1.76E-03	*
0.04036818	3.34E-02	*
0.03799879	1.62E-03	*
0.0380469	9.13E-03	*
0.03696284	1.78E-03	*
0.04094159	1.01E-02	*
0.03886077	2.08E-02	*
0.04404072	9.23E-04	*
0.03821141	1.57E-08	***
0.10402168	4.26E-02	*
0.10327743	3.29E-02	*
0.03917396	2.85E-02	*
0.03907885	3.39E-05	**
0.03832306	9.88E-03	*
0.03859659	6.96E-03	*
0.03993783	1.46E-02	*
0.03832347	1.28E-02	*
0.04128459	4.17E-02	*
0.03835519	1.49E-02	*
0.04213839	1.36E-04	**
0.03836801	5.91E-03	*
0.03830426	1.58E-02	*
0.03825374	2.81E-03	*
0.03947668	5.12E-04	**
0.03974943	4.77E-04	**
0.0417668	1.63E-02	*
0.09795908	4.60E-02	*
0.09146989	4.81E-02	*
0.04198146	3.17E-02	*
0.04093559	6.83E-03	*
0.0415629	2.14E-02	*
0.04548635	2.97E-02	*
0.04456334	3.08E-02	*
0.0853875	1.13E-02	*
0.08766115	2.39E-04	**
0.08305484	3.04E-02	*
0.08462429	8.21E-03	*
0.08657343	3.24E-02	*
0.0829445	3.47E-02	*
0.09621528	8.56E-03	*
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0.08313102	3.60E-02	*
0.08836771	1.97E-03	*
0.08467375	1.86E-02	*
0.0894281	2.76E-02	*
0.0883829	2.45E-04	**

0.08356986	1.28E-02	*
0.08408703	4.57E-02	*
0.08749976	7.30E-03	*
0.09362899	3.82E-02	*
0.0844718	4.07E-02	*
0.08349167	1.28E-02	*
0.08938975	4.34E-02	*
0.08367427	8.52E-03	*
0.0938727	5.66E-03	*
0.08381659	1.46E-02	*
0.08514874	2.23E-03	*
0.08913291	1.10E-03	*
0.08756443	1.36E-02	*
0.08571175	2.62E-02	*
0.09165598	9.45E-03	*
0.09962065	4.81E-04	**
0.09892254	4.07E-02	*
0.10529811	1.68E-02	*
0.10080765	2.53E-02	*
0.10548528	2.17E-02	*
0.09389456	2.90E-02	*
0.10529326	9.82E-03	*
0.08727417	5.91E-04	**
0.08776852	4.41E-02	*
0.08209764	4.62E-02	*
0.08513737	2.38E-02	*
0.08582238	4.18E-02	*
0.08585348	2.07E-02	*
0.04096649	9.14E-03	*
0.03768587	2.14E-03	*
0.04472468	2.07E-04	**
0.03884081	3.89E-10	***
0.08752183	4.32E-02	*
0.08751749	4.47E-02	*
0.09451539	3.02E-02	*
0.08934065	4.81E-02	*
0.08761022	3.86E-02	*
0.09084093	2.60E-02	*
0.10074031	3.08E-03	*
0.10945297	4.23E-04	**
0.10128146	1.39E-02	*
0.11852792	1.12E-03	*
0.10829176	2.62E-06	**
0.03906177	4.18E-02	*
0.04232136	7.10E-03	*
0.03934979	9.37E-04	*
0.04510652	8.83E-04	**
0.03962926	1.44E-02	*
0.11416817	1.16E-02	*
0.11221206	8.66E-03	*

0.12765425	1.17E-02	*
0.11261612	6.54E-03	*
0.13118097	3.13E-06	**
0.11234946	2.97E-02	*
0.12492093	9.82E-05	**
0.12308807	4.15E-04	**
0.12172228	2.38E-02	*
0.03980915	3.66E-02	*
0.03839953	3.60E-03	*
0.04029067	3.49E-03	*
0.04581021	6.64E-03	*
0.04023325	4.92E-03	*
0.0398202	2.37E-02	*
0.04052207	2.47E-04	**
0.0408687	1.46E-02	*
0.04307563	4.66E-02	*
0.0449682	1.79E-03	*
0.03941022	3.46E-03	*
0.04673861	1.90E-02	*
0.04121411	1.78E-06	**
0.0407906	1.85E-02	*
0.0440426	5.30E-03	*
0.04171788	2.68E-02	*
0.04689193	2.58E-05	**
0.04171523	4.38E-03	*
0.04090704	4.78E-02	*
0.04062536	4.72E-02	*
0.04000742	1.88E-02	*
0.03885866	2.94E-05	**
0.03911936	3.10E-02	*
0.03987879	1.02E-02	*
0.03882146	4.27E-05	**
0.09670658	3.86E-02	*
0.0922405	2.01E-02	*
0.09733133	7.74E-03	*
0.09612328	2.23E-02	*
0.09947709	4.71E-02	*
0.04428228	1.72E-02	*
0.03824788	2.20E-04	**
0.03946741	3.22E-02	*
0.03970766	9.60E-03	*
0.03889882	2.13E-02	*
0.03935205	4.56E-03	*
0.04055996	1.71E-02	*
0.03987469	3.69E-02	*
0.03891895	2.79E-02	*
0.03892908	3.47E-02	*
0.03906534	1.54E-02	*
0.03899625	1.32E-02	*
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0.03941057	3.10E-02	*
0.0434069	1.97E-02	*
0.04046922	2.04E-03	*
0.04238433	1.13E-02	*
0.03959401	4.18E-02	*
0.04018098	3.23E-02	*
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0.04199611	3.19E-02	*
0.04821144	1.37E-02	*
0.04225972	7.86E-04	**
0.08470626	3.05E-02	*
0.09106815	8.64E-03	*
0.08615176	1.56E-03	*
0.09881915	2.71E-03	*
0.09917854	4.29E-02	*
0.09882985	1.76E-03	*
0.09327283	2.98E-02	*
0.10675768	1.01E-03	*
0.09221331	5.95E-03	*
0.03980185	3.68E-02	*
0.03998834	3.52E-02	*
0.04353182	3.40E-02	*
0.04051678	1.84E-02	*
0.04250436	2.96E-02	*
0.13498268	2.89E-02	*
0.13186896	2.03E-02	*
0.15793784	1.53E-04	**
0.14993637	2.81E-05	**
0.1478216	1.72E-04	**
0.14007782	4.04E-03	*
0.13759561	3.20E-03	*
0.141275	1.76E-04	**
0.13675768	1.47E-02	*
0.14899006	2.54E-04	**
0.14699308	1.66E-05	**
0.16429754	3.06E-08	***
0.13974505	1.86E-03	*
0.1349154	6.46E-03	*
0.16300211	8.43E-09	***
0.08819929	2.89E-03	*
0.08537737	2.90E-02	*
0.08995206	4.92E-02	*
0.08913542	3.17E-02	*
0.08700072	1.85E-02	*
0.08765706	4.73E-02	*

0.0944583	5.57E-03	*
0.09862984	8.50E-04	**
0.09189485	6.62E-03	*
0.10325082	4.15E-02	*
0.09985988	3.46E-02	*
0.09629285	1.03E-02	*
0.10017259	1.42E-03	*
0.10584401	1.38E-02	*
0.09750859	2.21E-03	*
0.09964003	2.34E-02	*
0.10334712	1.27E-03	*
0.10964262	4.24E-02	*
0.11796491	2.04E-04	**
0.12607519	3.02E-05	**
0.12313256	8.01E-05	**
0.10787221	2.04E-03	*
0.11893797	6.06E-03	*
0.11194069	2.49E-02	*
0.11880622	1.97E-04	**
0.11623733	1.21E-03	*
0.12940716	2.83E-05	**
0.12251815	1.86E-06	**
0.11520768	1.08E-03	*
0.12114848	5.57E-05	**
0.13356875	2.68E-10	***
0.11653254	1.26E-02	*
0.11924017	4.89E-02	*
0.12171418	1.33E-03	*
0.11447632	4.94E-02	*
0.09201723	1.93E-02	*
0.08998227	8.58E-03	*
0.08989111	1.85E-02	*
0.09043478	9.63E-03	*
0.10044825	1.21E-02	*
0.096711	3.92E-02	*
0.09025157	1.47E-02	*
0.09745304	5.66E-03	*
0.08994946	1.57E-02	*
0.09082365	4.38E-03	*
0.0909227	4.39E-03	*
0.09622933	9.01E-03	*
0.10084729	6.01E-03	*
0.09478195	6.48E-04	**
0.09612366	1.86E-02	*
0.09260327	2.51E-02	*
0.0932859	1.53E-02	*
0.09396294	3.16E-02	*
0.0954555	4.36E-03	*
0.09341354	4.90E-02	*
0.09630977	2.03E-02	*

0.09636588	4.45E-02	*
0.10104179	2.89E-03	*
0.10867584	2.85E-02	*
0.09240045	8.90E-03	*
0.0938379	4.75E-02	*
0.09104846	1.01E-02	*
0.09924401	2.89E-04	**

Node 1	Node 2	pcor	p	fdr
M00598	M38271	0.53481795	2.22E-16	3.08E-13
M18254	M34400	0.51776406	2.22E-16	3.08E-13
M46799	M52634	0.49060104	2.22E-16	3.08E-13
M00513	M27718	0.4751486	2.22E-16	3.08E-13
M18335	M21177	0.46920105	2.22E-16	3.08E-13
M00607	M40410	0.4575142	2.22E-16	3.08E-13
M18476	M32346	0.45373924	2.22E-16	3.08E-13
M01644	M32489	0.45215201	2.22E-16	3.08E-13
M32418	M33968	0.43802654	2.22E-16	3.08E-13
M37501	M37502	0.428629	2.22E-16	3.08E-13
M01642	M01645	0.42830556	2.22E-16	3.08E-13
M00601	M01594	0.4235029	2.22E-16	3.08E-13
M27414	M33997	0.42115758	2.22E-16	3.08E-13
denovo55	denovo819	0.41610779	2.22E-16	3.08E-13
M01303	M01643	0.40919409	2.22E-16	3.08E-13
M15677	M15747	0.40759302	2.22E-16	3.08E-13
M42446	M52461	0.39754984	2.22E-16	3.08E-13
denovo1333	denovo1396	0.39494752	2.22E-16	3.08E-13
M01561	M52473	0.39426697	2.22E-16	3.08E-13
M02137	M43807	0.39371519	2.22E-16	3.08E-13
denovo130	denovo74	0.39335824	2.22E-16	3.08E-13
denovo1085	denovo983	0.39119309	2.22E-16	3.08E-13
denovo1398	denovo1485	0.38933218	2.22E-16	3.08E-13
M33013	M33471	-0.38847978	2.22E-16	3.08E-13
M01114	M01483	0.38210885	2.22E-16	3.08E-13
M48153	M48195	0.38184386	2.22E-16	3.08E-13
M35635	M39587	0.37815108	2.22E-16	3.08E-13
denovo144	denovo237	0.37651876	2.22E-16	3.08E-13
M33961	M42398	0.37583992	2.22E-16	3.08E-13
M27722	M46539	0.37000488	2.22E-16	3.08E-13
M27731	M48255	0.36477783	2.22E-16	3.08E-13
denovo1031	denovo6	0.3637295	2.22E-16	3.08E-13
denovo1804	denovo336	0.36144026	2.22E-16	3.08E-13
M01365	M01645	0.36115707	2.22E-16	3.08E-13
M00569	M18394	0.36084647	2.22E-16	3.08E-13
denovo1182	denovo1311	0.35630954	2.22E-16	3.08E-13
M00554	M01553	0.35520531	2.22E-16	3.08E-13
M33443	M44656	0.3549037	2.22E-16	3.08E-13
M45986	M52233	0.35370672	2.22E-16	3.08E-13
M38165	M38625	0.35290267	2.22E-16	3.08E-13
M38102	M52608	0.3513522	2.22E-16	3.08E-13
M18467	M44675	0.34883196	2.22E-16	3.08E-13
denovo1205	denovo271	0.34880365	2.22E-16	3.08E-13
M37455	M39271	0.34804998	2.22E-16	3.08E-13
M46619	M53215	0.34741433	2.22E-16	3.08E-13
denovo361	denovo60	0.34114195	2.22E-16	3.08E-13
M17747	M17769	0.34105623	2.22E-16	3.08E-13
denovo887	denovo908	0.3381691	2.22E-16	3.08E-13
M17805	M35718	0.33565324	2.22E-16	3.08E-13

M32377	M46539	0.33314158	2.22E-16	3.08E-13
M01644	M31938	0.33199435	2.22E-16	3.08E-13
denovo1236	denovo830	0.33087869	2.22E-16	3.08E-13
M01552	M33587	0.3308632	2.22E-16	3.08E-13
M18357	M36659	0.32824206	2.22E-16	3.08E-13
M38183	M43530	0.32770746	2.22E-16	3.08E-13
M00537	M00604	0.32437685	2.22E-16	3.08E-13
denovo1050	denovo7	0.3232333	2.22E-16	3.08E-13
M32391	M34424	0.32231227	2.22E-16	3.08E-13
M00587	M27719	0.32018315	2.22E-16	3.08E-13
M15676	M22116	0.32010183	2.22E-16	3.08E-13
M01123	M01573	0.31668555	2.22E-16	3.08E-13
denovo581	denovo7275	0.31600319	2.22E-16	3.08E-13
M35107	M48433	0.31529733	2.22E-16	3.08E-13
M00566	M01669	0.31449299	2.22E-16	3.08E-13
M06104	M12142	0.31263325	2.22E-16	3.08E-13
M52453	M52461	0.31016337	2.22E-16	3.08E-13
M15500	M36747	0.30439393	2.22E-16	3.08E-13
M00555	M46410	-0.30396048	2.22E-16	3.08E-13
M01411	M32352	0.30203954	2.22E-16	3.08E-13
M01412	M02183	0.30193468	2.22E-16	3.08E-13
denovo1205	denovo190	-0.30116447	2.22E-16	3.08E-13
denovo1358	denovo414	0.30076232	2.22E-16	3.08E-13
M22130	M32197	0.2989113	2.22E-16	3.08E-13
M18394	M32391	0.29600893	2.22E-16	3.08E-13
M01642	M32492	0.29595989	2.22E-16	3.08E-13
M37506	M44877	0.29548213	2.22E-16	3.08E-13
M00606	M35136	0.28980133	2.22E-16	3.08E-13
denovo1782	denovo29	0.28768533	2.22E-16	3.08E-13
denovo0	denovo788	0.28717295	2.22E-16	3.08E-13
M01128	M45986	0.28530003	2.22E-16	3.08E-13
M01587	M33967	0.28484023	2.22E-16	3.08E-13
M18349	M32197	0.28371592	2.22E-16	3.08E-13
M35678	M36754	0.28133988	2.22E-16	3.08E-13
M22132	M36746	0.28125348	2.22E-16	3.08E-13
M38293	M38768	0.28005688	2.22E-16	3.08E-13
M32390	M33950	0.27827694	2.22E-16	3.08E-13
M27710	M31932	0.27729503	2.22E-16	3.08E-13
M00514	M15949	0.27624738	2.22E-16	3.08E-13
denovo1012	denovo1613	0.27571742	2.22E-16	3.08E-13
M00063	M33997	0.2745034	2.22E-16	3.08E-13
M46960	denovo105	-0.26854498	2.22E-16	3.08E-13
M01114	M18477	0.26378294	2.22E-16	3.08E-13
M36746	M46537	0.26333706	2.22E-16	3.08E-13
M18476	M22842	0.26326062	2.22E-16	3.08E-13
denovo1236	denovo916	0.2586114	2.22E-16	3.08E-13
M01483	M31891	0.2568786	2.22E-16	3.08E-13
denovo1290	denovo18	0.25529458	2.22E-16	3.08E-13
M18476	M18477	0.25235254	2.22E-16	3.08E-13
M15745	denovo45	-0.25234868	2.22E-16	3.08E-13

M37502	M38109	0.2503107	2.22E-16	3.08E-13
M31938	M32489	0.24955381	2.22E-16	3.08E-13
M01493	M32984	0.24938186	2.22E-16	3.08E-13
M17747	M52238	0.24759819	2.22E-16	3.08E-13
M15586	M48152	0.24710479	2.22E-16	3.08E-13
M02125	M47089	0.24695853	2.22E-16	3.08E-13
M22185	denovo84	-0.24585908	2.22E-16	3.08E-13
denovo138	denovo15	0.24532175	2.22E-16	3.08E-13
M31891	M46336	0.24364107	2.22E-16	3.08E-13
M33447	M33971	0.24279652	2.22E-16	3.08E-13
denovo113	denovo150	-0.24272627	2.22E-16	3.08E-13
M01638	M02132	-0.24222222	2.22E-16	3.08E-13
M01365	M01642	0.24118325	2.22E-16	3.08E-13
M44877	M52604	0.24092052	2.22E-16	3.08E-13
M42446	M52453	0.24077245	2.22E-16	3.08E-13
denovo486	denovo852	-0.24065148	2.22E-16	3.08E-13
denovo121	denovo99	0.23994098	2.22E-16	3.08E-13
denovo1	denovo759	0.23921906	2.22E-16	3.08E-13
M40008	M40475	0.2389998	2.22E-16	3.08E-13
M27738	M42420	0.23879765	2.22E-16	3.08E-13
M00575	M48340	0.23877726	2.22E-16	3.08E-13
M17769	M52604	0.23805546	2.22E-16	3.08E-13
M18319	M43400	0.23638001	2.22E-16	3.08E-13
denovo1	denovo1244	0.23631674	2.22E-16	3.08E-13
M18374	M45428	0.23565899	2.22E-16	3.08E-13
M18369	M34457	0.23537827	2.22E-16	3.08E-13
M15667	M38276	0.2333104	2.22E-16	3.08E-13
M27447	M46799	0.23265901	2.22E-16	3.08E-13
denovo1311	denovo2	0.23210578	2.22E-16	3.08E-13
M17805	M32415	0.23139114	2.22E-16	3.08E-13
M15749	M39587	-0.23136893	2.22E-16	3.08E-13
M35630	M40481	0.2311676	2.22E-16	3.08E-13
M01411	M15076	0.23093396	2.22E-16	3.08E-13
M35469	M40008	0.22980803	2.22E-16	3.08E-13
denovo235	denovo361	0.22870289	2.22E-16	3.08E-13
denovo1082	denovo2	0.22861745	2.22E-16	3.08E-13
denovo6	denovo884	0.2278058	2.22E-16	3.08E-13
M32398	M42395	0.22603391	2.22E-16	3.08E-13
M36713	M37458	0.22407338	2.22E-16	3.08E-13
denovo1819	denovo593	0.22369049	2.22E-16	3.08E-13
denovo1154	denovo998	0.22344789	2.22E-16	3.08E-13
M00063	M52233	-0.22031159	2.22E-16	3.08E-13
M37093	M40010	0.21986853	2.22E-16	3.08E-13
M38102	M38165	0.21965473	2.22E-16	3.08E-13
M15730	M32398	0.2195194	2.22E-16	3.08E-13
M18477	M32346	0.2180704	2.22E-16	3.08E-13
M00569	M34404	-0.21804048	2.22E-16	3.08E-13
denovo1490	denovo22	0.2174784	2.22E-16	3.08E-13
M22132	M46537	0.21725341	2.22E-16	3.08E-13
M47123	M52285	0.21700464	2.22E-16	3.08E-13

M18349	M22130	0.21590872	2.22E-16	3.08E-13
M27414	M52233	0.2157074	2.22E-16	3.08E-13
M00531	M36770	0.21501368	2.22E-16	3.08E-13
M42395	M43027	0.21392515	4.44E-16	6.08E-13
M01105	M52285	0.21295671	4.44E-16	6.08E-13
M27722	M32377	0.21110097	8.88E-16	1.20E-12
denovo13	denovo35	0.21096032	8.88E-16	1.20E-12
M01589	M43506	0.21003102	1.33E-15	1.78E-12
denovo469	denovo7	0.2097326	1.33E-15	1.78E-12
M15720	M32984	0.2090989	1.78E-15	2.35E-12
denovo11	denovo1154	0.20850691	2.22E-15	2.91E-12
M18369	M33422	0.20785758	2.66E-15	3.45E-12
M34398	M37093	0.20726708	3.11E-15	3.99E-12
M01604	M03127	-0.2072196	3.11E-15	3.99E-12
M18362	M42395	0.20720228	3.11E-15	3.99E-12
M32388	M43027	0.20656804	4.00E-15	5.09E-12
M20703	M33942	-0.20515726	6.22E-15	7.75E-12
M32346	M32620	0.20509019	6.22E-15	7.75E-12
denovo1200	denovo91	0.20508849	6.22E-15	7.75E-12
denovo142	denovo231	0.20503122	6.22E-15	7.75E-12
denovo117	denovo351	0.20340075	1.04E-14	1.28E-11
M01604	M38672	0.20306621	1.15E-14	1.42E-11
M36770	M39587	0.20206525	1.55E-14	1.88E-11
denovo724	denovo8	0.20185316	1.69E-14	2.04E-11
M27447	M52634	0.20170087	1.75E-14	2.11E-11
M33955	M45970	0.20127361	2.00E-14	2.39E-11
denovo10643	denovo8442	0.20105028	2.13E-14	2.54E-11
M41374	M47231	0.20068352	2.40E-14	2.83E-11
M00063	M27414	0.20062043	2.44E-14	2.88E-11
M49647	M49663	0.20055702	2.49E-14	2.93E-11
denovo133	denovo39	0.19960174	3.29E-14	3.83E-11
M34093	M46740	0.19881677	4.17E-14	4.81E-11
M35631	M42398	0.1986794	4.35E-14	5.01E-11
M01123	M35136	0.19849171	4.57E-14	5.25E-11
denovo25	denovo856	0.19835755	4.77E-14	5.47E-11
M40084	M40173	-0.19765526	5.88E-14	6.66E-11
M01552	M32415	0.19762016	5.95E-14	6.73E-11
M02734	M33422	0.19720484	6.71E-14	7.52E-11
M42489	M47123	0.19718116	6.75E-14	7.56E-11
denovo103	denovo48	-0.19673178	7.73E-14	8.61E-11
M33443	M44577	0.19567562	1.05E-13	1.16E-10
M27414	M45986	-0.1954722	1.12E-13	1.23E-10
denovo121	denovo16	-0.19529531	1.18E-13	1.29E-10
M01356	M38296	0.19516582	1.22E-13	1.34E-10
M44877	M52238	0.1948687	1.33E-13	1.45E-10
M01591	M33967	0.19430551	1.57E-13	1.69E-10
M01336	M01358	0.19426519	1.59E-13	1.71E-10
M35630	M36770	0.19389872	1.77E-13	1.88E-10
M33955	M33961	0.19388878	1.77E-13	1.89E-10
M17805	M33587	0.19343946	2.02E-13	2.14E-10

M15729	M54723	0.19281403	2.42E-13	2.53E-10
denovo1157	denovo759	0.19260806	2.57E-13	2.68E-10
M35631	M37455	0.19247956	2.67E-13	2.77E-10
M32489	M32492	0.19233743	2.78E-13	2.88E-10
M32504	M35718	0.19217585	2.91E-13	3.01E-10
M32391	M34404	0.19050938	4.69E-13	4.80E-10
M46142	M48885	0.19033395	4.93E-13	5.04E-10
denovo403	denovo743	0.18904946	7.10E-13	7.17E-10
M01110	M44675	0.1881638	9.11E-13	9.10E-10
M33422	M34457	0.18810994	9.25E-13	9.23E-10
denovo101	denovo234	-0.1880364	9.45E-13	9.42E-10
M27414	M38125	0.1880022	9.54E-13	9.50E-10
denovo1539	denovo18	0.18781153	1.01E-12	1.00E-09
M01105	M37752	0.18750266	1.10E-12	1.09E-09
denovo1333	denovo3	0.18718132	1.20E-12	1.18E-09
denovo117	denovo142	0.18630533	1.53E-12	1.50E-09
M38395	M38399	0.18587449	1.73E-12	1.68E-09
denovo5037	denovo6588	0.18567276	1.83E-12	1.77E-09
M01603	M12142	0.18533544	2.01E-12	1.93E-09
M01505	M01594	0.18514402	2.12E-12	2.03E-09
M00601	M01505	0.18490897	2.26E-12	2.16E-09
M00555	M01553	0.18426971	2.69E-12	2.56E-09
denovo1290	denovo581	0.18420468	2.74E-12	2.60E-09
denovo31	denovo875	0.18356494	3.27E-12	3.08E-09
M01110	M18467	0.18336259	3.46E-12	3.25E-09
M02137	M40173	0.18287122	3.95E-12	3.69E-09
M01121	M01356	0.18255534	4.31E-12	4.01E-09
M34035	M53215	0.18216818	4.79E-12	4.42E-09
denovo1290	denovo1539	0.18203809	4.96E-12	4.57E-09
M00566	M22116	0.18145318	5.81E-12	5.30E-09
M15581	M48340	0.18107214	6.45E-12	5.83E-09
denovo1027	denovo887	0.18086699	6.81E-12	6.13E-09
M33955	M35631	0.18081534	6.91E-12	6.21E-09
M00527	M52281	0.18075754	7.02E-12	6.30E-09
denovo1	denovo1157	0.18070007	7.13E-12	6.39E-09
M40010	M41374	0.18054131	7.44E-12	6.65E-09
M42374	M52281	0.18051417	7.49E-12	6.69E-09
M03127	M03147	0.17996628	8.68E-12	7.68E-09
denovo27	denovo97	0.17981414	9.05E-12	7.98E-09
denovo1082	denovo1311	0.17981284	9.05E-12	7.98E-09
M33950	M44577	0.17852271	1.28E-11	1.11E-08
M33442	M48141	0.17848148	1.29E-11	1.12E-08
M01483	M43507	0.17838597	1.33E-11	1.15E-08
denovo1026	denovo1155	0.17823695	1.38E-11	1.19E-08
M27719	M27731	0.17812231	1.42E-11	1.22E-08
denovo252	denovo593	0.17809019	1.43E-11	1.23E-08
denovo2118	denovo2390	0.17783177	1.54E-11	1.31E-08
M15958	M36103	0.17739356	1.72E-11	1.46E-08
denovo124	denovo42	-0.17718674	1.82E-11	1.54E-08
M01645	M32492	0.17717046	1.83E-11	1.55E-08

denovo1237	denovo22	0.17694718	1.94E-11	1.63E-08
M01121	M38768	0.17680176	2.02E-11	1.69E-08
M35631	M45970	0.17669663	2.07E-11	1.73E-08
M15747	M32350	0.17516377	3.10E-11	2.56E-08
denovo102	denovo283	0.17480582	3.40E-11	2.81E-08
M00566	M15676	0.17457018	3.62E-11	2.98E-08
denovo121	denovo45	-0.17393889	4.27E-11	3.48E-08
M15958	M44656	0.17339973	4.91E-11	3.98E-08
denovo1182	denovo2	0.17323321	5.12E-11	4.15E-08
M18477	M32620	0.1732217	5.14E-11	4.16E-08
M00554	M00555	0.17312291	5.27E-11	4.26E-08
M00531	M39626	0.17302565	5.40E-11	4.36E-08
denovo6588	denovo6591	0.1722698	6.57E-11	5.27E-08
M33934	M52278	0.17189074	7.24E-11	5.79E-08
denovo48	denovo84	-0.17158155	7.83E-11	6.25E-08
M01589	M45428	0.17112276	8.81E-11	7.00E-08
M37070	M42109	0.17064479	9.95E-11	7.87E-08
M42079	M48189	0.17043411	1.05E-10	8.28E-08
M01105	M32455	0.16986515	1.21E-10	9.50E-08
denovo1012	denovo2040	0.16982788	1.22E-10	9.59E-08
M01105	M46619	0.16905157	1.49E-10	1.16E-07
M32504	M44675	0.16879998	1.59E-10	1.23E-07
denovo281	denovo40	0.16871197	1.62E-10	1.26E-07
M18394	M34404	0.16839042	1.76E-10	1.35E-07
denovo7275	denovo8442	0.16824784	1.82E-10	1.40E-07
M01587	M01591	0.166737	2.66E-10	2.02E-07
denovo144	denovo908	0.16673648	2.66E-10	2.03E-07
denovo129	denovo73	0.16606855	3.14E-10	2.38E-07
M31555	M43449	-0.16603368	3.16E-10	2.40E-07
M34398	M36659	0.16517886	3.91E-10	2.94E-07
M01118	M33587	0.16489876	4.19E-10	3.14E-07
M15676	M44526	0.16448166	4.64E-10	3.46E-07
denovo38	denovo90	0.16422393	4.94E-10	3.67E-07
M32352	M38672	0.16396153	5.27E-10	3.90E-07
denovo1710	denovo2456	0.16377214	5.52E-10	4.07E-07
denovo5306	denovo6069	0.16355246	5.82E-10	4.28E-07
denovo328	denovo362	0.163258	6.25E-10	4.58E-07
M01412	M15076	0.16319148	6.36E-10	4.65E-07
M01638	M01651	-0.16306782	6.55E-10	4.78E-07
denovo5306	denovo983	0.16290052	6.82E-10	4.97E-07
denovo361	denovo632	0.16278494	7.02E-10	5.10E-07
denovo1031	denovo884	0.16255496	7.42E-10	5.37E-07
M17769	M34381	0.16240253	7.70E-10	5.55E-07
M46410	M47715	-0.16207633	8.33E-10	5.99E-07
denovo1539	denovo906	0.16163368	9.27E-10	6.63E-07
M01110	M32504	0.16152209	9.52E-10	6.80E-07
M15720	M36751	0.16119614	1.03E-09	7.33E-07
M00531	M34035	0.16015953	1.32E-09	9.30E-07
M34093	M46336	0.15978152	1.44E-09	1.01E-06
denovo361	denovo467	0.15938206	1.59E-09	1.11E-06

denovo2118	denovo213	-0.15907687	1.71E-09	1.19E-06
M00541	M27513	0.15879157	1.83E-09	1.27E-06
M18254	M18394	0.15877013	1.84E-09	1.27E-06
denovo27	denovo58	0.15844384	1.98E-09	1.37E-06
denovo1026	denovo27	0.1582999	2.05E-09	1.41E-06
M01417	M40730	-0.15779759	2.31E-09	1.58E-06
denovo1	denovo10623	0.15773027	2.35E-09	1.60E-06
M27718	M46225	0.1577275	2.35E-09	1.60E-06
denovo1237	denovo1490	0.15772422	2.35E-09	1.60E-06
M38296	M38768	0.1576417	2.40E-09	1.63E-06
M34399	M34400	0.15755734	2.44E-09	1.66E-06
denovo278	denovo55	0.15741667	2.53E-09	1.71E-06
M43028	M47231	0.15705153	2.75E-09	1.85E-06
denovo17	denovo916	0.15699332	2.79E-09	1.87E-06
M17747	M44877	0.15692805	2.83E-09	1.90E-06
denovo142	denovo2118	0.15491785	4.52E-09	2.99E-06
M17747	M52604	0.15487811	4.56E-09	3.02E-06
denovo1713	denovo1980	0.15475201	4.70E-09	3.10E-06
denovo8401	denovo94	0.15453831	4.93E-09	3.25E-06
M20691	M52340	0.1540655	5.50E-09	3.61E-06
denovo10623	denovo2006	0.15364843	6.05E-09	3.95E-06
denovo40	denovo46	0.15343169	6.36E-09	4.14E-06
denovo1157	denovo906	0.15311252	6.84E-09	4.44E-06
denovo10623	denovo19804	0.15302726	6.97E-09	4.52E-06
M37070	M43847	-0.15268952	7.53E-09	4.86E-06
M22176	M37443	0.1526635	7.58E-09	4.89E-06
denovo1157	denovo1737	0.15265218	7.60E-09	4.90E-06
M00606	M01123	0.15244345	7.96E-09	5.12E-06
denovo788	denovo824	-0.15236244	8.11E-09	5.21E-06
denovo19804	denovo31	0.15193643	8.94E-09	5.70E-06
M52340	denovo936	0.15177305	9.27E-09	5.90E-06
denovo1236	denovo17	0.15161313	9.61E-09	6.10E-06
denovo361	denovo39	0.15160878	9.62E-09	6.11E-06
denovo1157	denovo1710	0.15109944	1.08E-08	6.80E-06
M34399	M34404	-0.15093643	1.12E-08	7.03E-06
M33959	M37501	0.15086972	1.14E-08	7.13E-06
denovo105	denovo278	-0.15056696	1.22E-08	7.59E-06
M01638	M15681	0.15048568	1.24E-08	7.72E-06
M33942	denovo48	-0.15035273	1.28E-08	7.93E-06
M00063	M38125	0.15021003	1.32E-08	8.16E-06
M33946	M33953	0.15007945	1.36E-08	8.38E-06
denovo652	denovo938	0.15001061	1.38E-08	8.50E-06
M47089	denovo3	0.14994321	1.40E-08	8.62E-06
M15506	M33961	0.14925268	1.63E-08	9.97E-06
M36749	denovo691	0.14899388	1.73E-08	1.05E-05
M00594	M33013	0.14871697	1.84E-08	1.12E-05
denovo1581	denovo283	0.14850365	1.93E-08	1.17E-05
M41370	M42079	0.14847915	1.94E-08	1.17E-05
denovo1396	denovo3	0.14843283	1.96E-08	1.18E-05
M18374	M20676	0.14835327	1.99E-08	1.20E-05

M01498	M15587	-0.14819226	2.06E-08	1.24E-05
denovo1068	denovo1461	0.1476151	2.34E-08	1.40E-05
M39788	denovo124	-0.14757317	2.37E-08	1.41E-05
M15958	M33444	0.1473314	2.50E-08	1.48E-05
denovo106	denovo424	0.14716653	2.59E-08	1.53E-05
denovo611	denovo733	0.14710236	2.62E-08	1.55E-05
M20676	M43807	-0.14700916	2.68E-08	1.58E-05
denovo1159	denovo998	0.14688911	2.75E-08	1.62E-05
M15749	M15958	0.1464718	3.01E-08	1.76E-05
denovo1154	denovo69	0.14646763	3.02E-08	1.76E-05
M38116	M40479	-0.14629261	3.13E-08	1.82E-05
M33447	M52285	0.14604512	3.31E-08	1.92E-05
M39788	denovo736	0.14602841	3.32E-08	1.92E-05
denovo17	denovo522	0.14601407	3.33E-08	1.93E-05
M52233	M52634	0.14600484	3.34E-08	1.93E-05
denovo467	denovo923	0.14571343	3.55E-08	2.05E-05
M00608	M05341	0.1456503	3.60E-08	2.07E-05
denovo10643	denovo1555	-0.14559694	3.65E-08	2.09E-05
denovo2911	denovo835	-0.14527281	3.91E-08	2.23E-05
M01651	M05341	0.14515559	4.01E-08	2.28E-05
M31555	M38109	0.14513947	4.03E-08	2.29E-05
M00514	M00573	0.14494232	4.20E-08	2.38E-05
M00606	M01573	0.14492549	4.22E-08	2.39E-05
denovo15	denovo8442	0.1447046	4.42E-08	2.49E-05
M01510	M34381	0.14468274	4.44E-08	2.50E-05
denovo1613	denovo632	-0.14459096	4.53E-08	2.55E-05
M33447	M46619	0.14427357	4.85E-08	2.71E-05
denovo1068	denovo830	0.14423413	4.89E-08	2.73E-05
M01651	denovo1205	-0.14423397	4.89E-08	2.73E-05
M01603	M41515	0.14407537	5.06E-08	2.81E-05
denovo138	denovo18	0.14386251	5.30E-08	2.93E-05
M01512	M35651	0.14381657	5.35E-08	2.96E-05
M01118	M01358	0.14340548	5.85E-08	3.21E-05
M01561	M05341	0.14285623	6.57E-08	3.59E-05
M01105	M34035	0.14273507	6.74E-08	3.67E-05
M31532	M45434	0.14264938	6.87E-08	3.74E-05
M18467	M32504	0.14251392	7.07E-08	3.84E-05
M33959	M37502	-0.14227252	7.44E-08	4.02E-05
M37455	M42398	0.14206612	7.77E-08	4.19E-05
M01512	M15135	0.14198608	7.91E-08	4.25E-05
M01495	M40007	0.14189399	8.06E-08	4.33E-05
M01527	M22120	0.14187264	8.10E-08	4.35E-05
M15778	M43258	0.14163177	8.52E-08	4.55E-05
denovo1154	denovo1200	0.14160991	8.56E-08	4.57E-05
M35107	M36713	-0.14140339	8.94E-08	4.76E-05
M37063	M44872	0.14138622	8.98E-08	4.77E-05
M00568	M02150	0.14120383	9.33E-08	4.94E-05
denovo1494	denovo1713	0.14114687	9.44E-08	4.99E-05
M21177	M36770	0.14109721	9.54E-08	5.04E-05
M31555	denovo86	-0.14105692	9.62E-08	5.08E-05

denovo10545	denovo6053	0.14081548	1.01E-07	5.32E-05
M01301	M52278	0.14064665	1.05E-07	5.50E-05
M15747	M48114	0.14045187	1.09E-07	5.71E-05
M20703	M54676	0.14041089	1.10E-07	5.76E-05
M01603	M43530	0.14029556	1.13E-07	5.88E-05
M00053	M01416	-0.13980591	1.25E-07	6.46E-05
denovo1555	denovo31	0.1397963	1.25E-07	6.47E-05
denovo1485	denovo806	0.13974217	1.27E-07	6.54E-05
denovo235	denovo445	0.13958534	1.31E-07	6.73E-05
denovo182	denovo2911	-0.13946628	1.34E-07	6.88E-05
M34035	M35718	0.13915841	1.43E-07	7.29E-05
M35469	M40475	0.13911882	1.44E-07	7.34E-05
M18254	M34399	0.13907214	1.46E-07	7.41E-05
M15958	M43374	0.13893215	1.50E-07	7.60E-05
M01124	M02342	0.13861665	1.60E-07	8.05E-05
M01411	M02183	0.13838463	1.68E-07	8.40E-05
M32418	M33447	0.13838238	1.68E-07	8.40E-05
M01564	M52282	0.13824761	1.73E-07	8.61E-05
M00608	M15667	0.1381598	1.76E-07	8.75E-05
M33942	M52453	-0.13815195	1.76E-07	8.76E-05
M03141	M15500	0.13810376	1.78E-07	8.83E-05
M21127	M35631	0.13809155	1.78E-07	8.85E-05
denovo162	denovo814	0.1380581	1.80E-07	8.91E-05
M06146	denovo915	-0.13799992	1.82E-07	9.00E-05
denovo0	denovo449	0.13796523	1.83E-07	9.06E-05
M32390	M44577	0.13782717	1.88E-07	9.28E-05
M01356	M01358	0.13777137	1.91E-07	9.37E-05
M15135	M48255	0.13772997	1.92E-07	9.44E-05
denovo403	denovo621	0.13771933	1.93E-07	9.46E-05
denovo217	denovo48	0.13765679	1.95E-07	9.57E-05
denovo494	denovo938	0.13761925	1.97E-07	9.63E-05
denovo449	denovo724	0.13755961	1.99E-07	9.73E-05
M00512	M01643	-0.1374759	2.03E-07	9.88E-05
denovo10545	denovo8401	0.13728151	2.11E-07	1.02E-04
M37093	M40045	0.13724246	2.12E-07	1.03E-04
M15716	denovo564	0.13693541	2.26E-07	1.09E-04
M15076	M37070	-0.13690547	2.28E-07	1.09E-04
M36754	denovo5306	0.13682263	2.31E-07	1.11E-04
M01110	M35718	0.13677434	2.34E-07	1.12E-04
M01644	M32492	0.1367203	2.36E-07	1.13E-04
denovo169	denovo923	-0.13667994	2.38E-07	1.14E-04
M02150	M43023	0.13662712	2.41E-07	1.15E-04
M01105	M27447	0.13650457	2.47E-07	1.17E-04
denovo239	denovo458	0.13642542	2.51E-07	1.19E-04
M01128	M43507	0.13638993	2.53E-07	1.20E-04
M00055	denovo1613	-0.13630698	2.57E-07	1.22E-04
M31539	denovo564	0.13627256	2.59E-07	1.22E-04
M01669	M22116	0.13616188	2.65E-07	1.25E-04
M01121	M01358	0.1361375	2.66E-07	1.25E-04
M35631	denovo814	-0.13583552	2.83E-07	1.32E-04

denovo1539	denovo2390	0.13574951	2.88E-07	1.35E-04
M34035	M35879	0.1356588	2.93E-07	1.37E-04
M00056	M22176	0.13542675	3.07E-07	1.43E-04
M27719	M48885	0.13524913	3.19E-07	1.47E-04
denovo1461	denovo1710	0.13503268	3.33E-07	1.53E-04
M21127	M27447	0.13489321	3.42E-07	1.57E-04
M01105	M15122	0.13456447	3.66E-07	1.67E-04
M54676	denovo31	-0.13445707	3.74E-07	1.70E-04
M33949	M37063	0.1343462	3.82E-07	1.74E-04
M01121	M38296	0.13427381	3.88E-07	1.76E-04
denovo150	denovo471	0.13426094	3.89E-07	1.76E-04
M15581	M35630	0.13424392	3.90E-07	1.77E-04
M01118	M01356	0.13420279	3.93E-07	1.78E-04
denovo471	denovo74	-0.13417517	3.96E-07	1.79E-04
M01303	M22185	-0.1341677	3.96E-07	1.79E-04
denovo25	denovo887	0.1340754	4.04E-07	1.82E-04
denovo526	denovo813	0.13392943	4.16E-07	1.87E-04
M27722	M42370	0.13388664	4.19E-07	1.88E-04
denovo1868	denovo31	0.13374681	4.31E-07	1.93E-04
M22138	M37458	0.13373163	4.32E-07	1.93E-04
M48434	denovo19804	0.13357432	4.46E-07	1.99E-04
M01572	M27738	0.13357352	4.46E-07	1.99E-04
M31891	M38276	0.13353405	4.50E-07	2.00E-04
M00528	M42420	-0.1335159	4.51E-07	2.01E-04
M15587	M32377	0.13345549	4.57E-07	2.03E-04
M18292	M35892	0.13329063	4.72E-07	2.09E-04
M15135	M46225	0.13325354	4.76E-07	2.10E-04
M01558	M22118	0.13322988	4.78E-07	2.11E-04
denovo1068	denovo1236	0.13301994	4.98E-07	2.19E-04
M43530	denovo705	0.1330173	4.98E-07	2.19E-04
denovo57	denovo90	0.13298392	5.02E-07	2.20E-04
M37455	M37506	0.13273509	5.27E-07	2.29E-04
M15745	denovo162	-0.13272722	5.28E-07	2.30E-04
M01411	M01412	0.13268597	5.32E-07	2.31E-04
M31532	M49663	0.13263887	5.37E-07	2.33E-04
denovo1068	denovo835	0.13259263	5.42E-07	2.35E-04
M00608	denovo114	0.13257861	5.44E-07	2.35E-04
denovo213	denovo328	0.13254042	5.48E-07	2.37E-04
M15716	M18349	0.13248518	5.54E-07	2.39E-04
M34035	M39626	0.13231492	5.73E-07	2.46E-04
M02734	M44872	0.13219565	5.87E-07	2.52E-04
M18354	M46142	0.13201029	6.08E-07	2.60E-04
M15587	denovo77	-0.13191949	6.19E-07	2.64E-04
M02183	M15076	0.13188948	6.23E-07	2.65E-04
denovo364	denovo736	0.13185621	6.27E-07	2.67E-04
M35635	M40481	0.13183887	6.29E-07	2.67E-04
M01123	M33442	0.13181261	6.33E-07	2.69E-04
denovo652	denovo801	0.13163955	6.54E-07	2.77E-04
M01124	M36808	0.13132535	6.96E-07	2.93E-04
M39994	M42079	0.13113869	7.22E-07	3.03E-04

M15130	M18354	0.13110208	7.27E-07	3.05E-04
denovo103	denovo121	0.13101707	7.40E-07	3.09E-04
denovo1290	denovo138	-0.13089188	7.58E-07	3.16E-04
M33942	denovo46	-0.13088139	7.59E-07	3.17E-04
M21134	M22118	0.13062502	7.99E-07	3.31E-04
denovo256	denovo936	-0.13052118	8.15E-07	3.37E-04
M15581	M27738	0.13027175	8.55E-07	3.52E-04
denovo256	denovo983	0.13018338	8.70E-07	3.57E-04
M15586	M48857	0.13015266	8.76E-07	3.59E-04
M22116	M44526	0.1300904	8.86E-07	3.63E-04
M52340	M52473	-0.13005367	8.93E-07	3.65E-04
M02734	M18369	0.1300244	8.98E-07	3.67E-04
M46225	denovo5037	0.12973871	9.49E-07	3.85E-04
denovo1082	denovo2118	0.12969726	9.57E-07	3.88E-04
denovo15	denovo983	0.12944255	1.00E-06	4.05E-04
M01572	M42420	0.12939819	1.01E-06	4.08E-04
denovo621	denovo850	0.12936041	1.02E-06	4.10E-04
denovo3	denovo37	0.12934269	1.02E-06	4.12E-04
M40007	denovo1026	0.129327	1.03E-06	4.13E-04
denovo13	denovo31	0.12930094	1.03E-06	4.15E-04
denovo38	denovo42	-0.12929523	1.03E-06	4.15E-04
M01564	M48195	0.12929316	1.03E-06	4.15E-04
denovo652	denovo736	0.12926609	1.04E-06	4.17E-04
M33950	M33967	0.12925479	1.04E-06	4.18E-04
M32388	M42395	0.12914446	1.06E-06	4.25E-04
denovo25	denovo31	0.12914394	1.06E-06	4.25E-04
denovo225	denovo329	0.12903302	1.09E-06	4.33E-04
denovo1200	denovo998	0.12896989	1.10E-06	4.38E-04
M31555	denovo11	-0.12888885	1.12E-06	4.44E-04
denovo1461	denovo2911	0.12884855	1.13E-06	4.47E-04
M01495	M33939	-0.1288065	1.14E-06	4.50E-04
denovo1027	denovo908	0.12879124	1.14E-06	4.51E-04
denovo386	denovo73	0.12875689	1.15E-06	4.53E-04
denovo2553	denovo458	0.1285976	1.18E-06	4.65E-04
M01558	M32349	0.12859508	1.18E-06	4.65E-04
denovo1012	denovo1155	0.12858758	1.19E-06	4.66E-04
M00396	M38399	-0.12856924	1.19E-06	4.67E-04
M34384	M46225	0.12850129	1.21E-06	4.72E-04
denovo10643	denovo2911	0.12843639	1.22E-06	4.77E-04
M15681	M47715	0.12839779	1.23E-06	4.80E-04
M00569	M18254	0.1283449	1.24E-06	4.84E-04
denovo17	denovo465	-0.12817673	1.28E-06	4.98E-04
denovo445	denovo736	-0.12813945	1.29E-06	5.01E-04
M06146	M43507	-0.1280479	1.31E-06	5.09E-04
M15135	denovo39	0.12798738	1.33E-06	5.14E-04
M15122	M45434	0.12792375	1.35E-06	5.19E-04
denovo386	denovo938	-0.1277454	1.39E-06	5.34E-04
M35879	denovo611	-0.12767283	1.41E-06	5.41E-04
denovo611	denovo736	0.12764715	1.42E-06	5.43E-04
M01669	M15676	0.12759859	1.43E-06	5.47E-04

M27447	M52233	-0.12746466	1.47E-06	5.59E-04
M35114	denovo43	-0.12746059	1.47E-06	5.59E-04
denovo252	denovo983	0.12745008	1.47E-06	5.60E-04
M33587	M52285	0.12731744	1.51E-06	5.72E-04
M33955	M42446	0.12727685	1.52E-06	5.76E-04
M15716	M33946	0.12716039	1.56E-06	5.86E-04
M01827	M02150	0.12714344	1.56E-06	5.88E-04
M40008	M40045	0.12709219	1.58E-06	5.93E-04
M01118	M01336	0.12707401	1.58E-06	5.95E-04
M34398	M40045	0.12704607	1.59E-06	5.97E-04
denovo1159	denovo234	0.12698484	1.61E-06	6.03E-04
M37501	M42978	0.12691648	1.63E-06	6.09E-04
M01669	M44526	0.12689486	1.64E-06	6.11E-04
M34384	M46410	0.12683969	1.66E-06	6.17E-04
M01121	M01336	0.12676911	1.68E-06	6.23E-04
denovo113	denovo43	0.12676598	1.68E-06	6.24E-04
denovo1713	denovo235	-0.12668826	1.70E-06	6.31E-04
denovo101	denovo97	0.12666462	1.71E-06	6.34E-04
M05086	denovo936	-0.12664301	1.72E-06	6.36E-04
M00059	M33946	0.12662301	1.72E-06	6.38E-04
M15765	M48141	0.12648887	1.77E-06	6.51E-04
denovo2118	denovo231	0.12646823	1.78E-06	6.53E-04
denovo138	denovo2136	0.12642235	1.79E-06	6.58E-04
M02125	denovo71	-0.12641411	1.79E-06	6.59E-04
denovo52	denovo852	0.12638734	1.80E-06	6.61E-04
M21169	denovo105	-0.12637042	1.81E-06	6.63E-04
M15506	M17895	-0.12630357	1.83E-06	6.70E-04
M01591	M33950	0.12615237	1.89E-06	6.87E-04
M01358	M52938	0.12610524	1.90E-06	6.92E-04
M00396	M01417	0.12609591	1.91E-06	6.93E-04
M01114	M34093	0.12595172	1.96E-06	7.09E-04
M01552	M38271	0.12594821	1.96E-06	7.10E-04
M38183	denovo1551	-0.12593765	1.96E-06	7.11E-04
denovo724	denovo884	0.12575819	2.03E-06	7.32E-04
denovo1551	denovo814	0.12570158	2.05E-06	7.39E-04
M32350	M38395	0.12563095	2.08E-06	7.47E-04
denovo1154	denovo1182	0.12559663	2.09E-06	7.52E-04
M37069	M37458	0.12552851	2.12E-06	7.60E-04
M34398	M39994	0.12528334	2.22E-06	7.91E-04
denovo10643	denovo1504	0.12526475	2.23E-06	7.93E-04
denovo16	denovo86	-0.12522902	2.24E-06	7.98E-04
denovo40	denovo6069	0.12521115	2.25E-06	8.00E-04
denovo234	denovo350	-0.12517967	2.26E-06	8.04E-04
M46336	denovo1581	0.125089	2.30E-06	8.16E-04
denovo121	denovo494	-0.12504964	2.32E-06	8.21E-04
M01437	denovo1710	-0.12503975	2.32E-06	8.22E-04
denovo1	denovo252	0.12500985	2.34E-06	8.26E-04
M00443	M01648	0.12493837	2.37E-06	8.36E-04
denovo1504	denovo73	0.12486443	2.40E-06	8.46E-04
denovo42	denovo90	0.12480252	2.43E-06	8.54E-04

M00063	M01128	0.12468616	2.48E-06	8.71E-04
M00608	denovo486	0.12464176	2.50E-06	8.77E-04
M31530	M39994	0.12458239	2.53E-06	8.85E-04
M20703	denovo48	0.12445834	2.59E-06	9.03E-04
denovo1027	denovo38	0.12433784	2.65E-06	9.20E-04
denovo350	denovo6053	-0.12432009	2.66E-06	9.23E-04
M01573	M32352	0.12427655	2.68E-06	9.29E-04
M32418	M46619	0.12424868	2.69E-06	9.33E-04
M35892	M53231	-0.12419736	2.72E-06	9.41E-04
denovo1819	denovo788	0.12419417	2.72E-06	9.42E-04
M01416	M01437	0.1241266	2.76E-06	9.52E-04
M00555	M35114	0.1240652	2.79E-06	9.61E-04
M05341	M33959	0.12401591	2.81E-06	9.68E-04
denovo10643	denovo414	0.12392615	2.86E-06	9.82E-04
M43023	M48428	-0.12385486	2.90E-06	9.93E-04
M02183	M15949	0.12377425	2.94E-06	1.01E-03
M38665	M48434	-0.12375378	2.95E-06	1.01E-03
denovo256	denovo336	0.12368055	2.99E-06	1.02E-03
M15765	denovo1333	0.12358921	3.04E-06	1.03E-03
denovo461	denovo60	0.12337977	3.17E-06	1.07E-03
denovo10545	denovo6069	0.12337806	3.17E-06	1.07E-03
denovo150	denovo2118	-0.12335486	3.18E-06	1.07E-03
M12142	M18354	-0.1233132	3.20E-06	1.08E-03
denovo1290	denovo7275	0.12328987	3.22E-06	1.08E-03
M01416	M21127	-0.12328373	3.22E-06	1.08E-03
denovo0	denovo37	0.12327177	3.23E-06	1.09E-03
denovo15	denovo449	0.12314551	3.31E-06	1.11E-03
denovo150	denovo424	0.12307215	3.35E-06	1.12E-03
M20676	M21169	0.12290588	3.45E-06	1.15E-03
denovo1490	denovo276	0.12289966	3.46E-06	1.15E-03
M38293	M52413	0.12288206	3.47E-06	1.15E-03
denovo18	denovo906	0.12282904	3.50E-06	1.16E-03
denovo31	denovo60	0.12281852	3.51E-06	1.16E-03
M18394	M34424	0.12281517	3.51E-06	1.16E-03
denovo182	denovo19804	0.12279413	3.53E-06	1.17E-03
M35101	denovo222	0.12273394	3.57E-06	1.18E-03
M01586	M46142	0.12267716	3.60E-06	1.19E-03
denovo351	denovo377	0.12261518	3.64E-06	1.20E-03
M33997	M38125	0.12258682	3.66E-06	1.20E-03
M15949	M33971	-0.12257632	3.67E-06	1.21E-03
M15729	M18292	0.12256123	3.68E-06	1.21E-03
denovo736	denovo830	-0.12243662	3.77E-06	1.23E-03
M15749	M32620	-0.12239932	3.79E-06	1.24E-03
M01417	M36747	-0.1223877	3.80E-06	1.24E-03
denovo276	denovo90	0.12235067	3.83E-06	1.25E-03
M15765	denovo38	0.12232178	3.85E-06	1.25E-03
M03127	M15076	0.12226521	3.89E-06	1.26E-03
M01124	denovo1200	-0.12224984	3.90E-06	1.27E-03
M00542	M38276	0.12220745	3.93E-06	1.27E-03
M33971	M52285	0.12216873	3.96E-06	1.28E-03

M40010	M40045	0.12216292	3.96E-06	1.28E-03
M15587	M35651	-0.12206087	4.03E-06	1.30E-03
denovo29	denovo486	0.12204749	4.04E-06	1.30E-03
M15581	M48153	0.12202716	4.06E-06	1.31E-03
M43023	M48433	0.12201402	4.07E-06	1.31E-03
denovo1490	denovo424	0.12191107	4.15E-06	1.33E-03
M40084	denovo11	0.12188958	4.16E-06	1.33E-03
M33935	denovo1494	-0.12184797	4.19E-06	1.34E-03
M42079	M47231	0.12181336	4.22E-06	1.35E-03
M34035	M36770	0.12179631	4.23E-06	1.35E-03
denovo1085	denovo835	0.12177617	4.25E-06	1.36E-03
M38696	denovo48	0.12165607	4.34E-06	1.38E-03
M33942	denovo530	-0.12153777	4.44E-06	1.40E-03
denovo113	denovo38	0.121532	4.44E-06	1.40E-03
M18357	M34398	0.12148914	4.48E-06	1.41E-03
denovo1555	denovo852	0.12144444	4.51E-06	1.42E-03
M33444	M43400	0.12143689	4.52E-06	1.42E-03
M38116	M49647	0.12122584	4.70E-06	1.46E-03
M40084	M41888	0.1212248	4.70E-06	1.47E-03
M02125	M33444	-0.12115948	4.76E-06	1.48E-03
M00057	M36738	0.12114247	4.77E-06	1.48E-03
denovo915	denovo95	0.1210887	4.82E-06	1.49E-03
M42971	M48455	0.12105843	4.84E-06	1.50E-03
denovo1485	denovo336	0.12105399	4.85E-06	1.50E-03
denovo1358	denovo486	0.12099023	4.90E-06	1.51E-03
M38672	denovo98	0.12098931	4.90E-06	1.51E-03
denovo471	denovo71	-0.12098587	4.91E-06	1.51E-03
denovo90	denovo95	0.1209521	4.94E-06	1.52E-03
denovo13	denovo530	0.1209105	4.98E-06	1.53E-03
denovo2040	denovo6591	-0.12090198	4.98E-06	1.53E-03
denovo10545	denovo6588	0.12086965	5.01E-06	1.54E-03
M38116	denovo71	-0.12083265	5.05E-06	1.55E-03
M17769	M52238	0.12083212	5.05E-06	1.55E-03
M38276	M38672	0.12080328	5.07E-06	1.55E-03
denovo121	denovo445	-0.120798	5.08E-06	1.55E-03
M15778	M36749	0.12077851	5.10E-06	1.56E-03
denovo103	denovo1461	0.12074509	5.13E-06	1.56E-03
M17895	M36713	0.12071387	5.16E-06	1.57E-03
denovo329	denovo759	-0.12068634	5.18E-06	1.58E-03
M37506	M39271	0.12063043	5.23E-06	1.59E-03
M37431	denovo377	0.12060719	5.26E-06	1.59E-03
M02342	denovo1539	0.12058228	5.28E-06	1.60E-03
M33943	M48114	0.12054477	5.32E-06	1.61E-03
M21158	M33935	-0.12048045	5.38E-06	1.62E-03
denovo1494	denovo1504	-0.12046619	5.39E-06	1.62E-03
denovo1398	denovo8	-0.12046091	5.40E-06	1.63E-03
M00554	M15076	-0.12044183	5.42E-06	1.63E-03
M52340	denovo91	-0.12043216	5.43E-06	1.63E-03
M01437	M15872	0.1203869	5.47E-06	1.64E-03
M15122	M32455	0.1203581	5.50E-06	1.65E-03

M01416	M43400	0.12031797	5.54E-06	1.66E-03
denovo5037	denovo5306	0.12026411	5.59E-06	1.67E-03
denovo632	denovo923	0.1202536	5.60E-06	1.67E-03
M40700	M45428	-0.12023417	5.62E-06	1.68E-03
M00566	M44526	0.12023117	5.63E-06	1.68E-03
denovo386	denovo95	0.12015499	5.70E-06	1.69E-03
M33444	M43374	-0.12015055	5.71E-06	1.69E-03
denovo25	denovo908	0.12014471	5.71E-06	1.70E-03
denovo4811	denovo8383	0.12011431	5.75E-06	1.70E-03
M34399	M52473	-0.12010463	5.76E-06	1.70E-03
M01553	M15949	0.12009351	5.77E-06	1.71E-03
M00554	M18319	-0.12008869	5.77E-06	1.71E-03
denovo1398	denovo821	0.12007105	5.79E-06	1.71E-03
M49647	denovo1200	0.12003588	5.83E-06	1.72E-03
denovo2390	denovo765	0.12003036	5.83E-06	1.72E-03
M15729	denovo48	-0.11999363	5.87E-06	1.73E-03
denovo10623	denovo936	-0.11990579	5.97E-06	1.75E-03
M00527	M43249	0.11989722	5.97E-06	1.75E-03
M06104	denovo6053	0.11987734	6.00E-06	1.76E-03
M01510	M27722	0.11985945	6.02E-06	1.76E-03
denovo449	denovo593	0.11979654	6.08E-06	1.78E-03
denovo1613	denovo2040	0.11967877	6.21E-06	1.81E-03
denovo461	denovo705	-0.11966591	6.23E-06	1.81E-03
denovo83	denovo86	0.11964625	6.25E-06	1.82E-03
M52285	M52938	0.11957556	6.33E-06	1.84E-03
M01114	M17769	0.11945001	6.47E-06	1.87E-03
M15778	M33443	0.11942851	6.50E-06	1.88E-03
M00527	M36746	0.11940445	6.53E-06	1.89E-03
denovo231	denovo336	0.11916661	6.81E-06	1.95E-03
M47123	M52938	0.11914646	6.84E-06	1.96E-03
M20691	denovo18	0.11898056	7.04E-06	2.01E-03
M00053	M33943	0.11891711	7.12E-06	2.03E-03
M15765	denovo1396	-0.11890534	7.14E-06	2.03E-03
denovo121	denovo130	0.11888557	7.16E-06	2.04E-03
denovo351	denovo37	0.11884563	7.21E-06	2.05E-03
denovo494	denovo98	-0.11881486	7.25E-06	2.06E-03
M35879	denovo330	-0.11881413	7.25E-06	2.06E-03
denovo213	denovo242	0.11877039	7.31E-06	2.07E-03
denovo252	denovo328	-0.11875416	7.33E-06	2.07E-03
M54676	M54723	0.11875227	7.33E-06	2.08E-03
M18335	M43026	0.11875143	7.34E-06	2.08E-03
denovo1819	denovo8442	-0.11865271	7.47E-06	2.11E-03
M52413	denovo225	-0.11863045	7.50E-06	2.11E-03
M32401	denovo2553	0.11861646	7.51E-06	2.12E-03
M01586	M37458	0.1186157	7.51E-06	2.12E-03
denovo10545	denovo621	-0.118544	7.61E-06	2.14E-03
M03155	M35136	-0.11851217	7.65E-06	2.15E-03
M40700	M52307	0.11849787	7.67E-06	2.15E-03
denovo235	denovo242	-0.11845138	7.74E-06	2.17E-03
denovo234	denovo469	-0.11845042	7.74E-06	2.17E-03

denovo1358	denovo1504	0.11840775	7.80E-06	2.18E-03
denovo806	denovo821	0.11834044	7.89E-06	2.20E-03
denovo806	denovo90	0.11830692	7.94E-06	2.21E-03
M34381	denovo830	-0.11830384	7.94E-06	2.21E-03
M37069	denovo1311	-0.11828984	7.96E-06	2.22E-03
M15443	M52461	-0.11821084	8.08E-06	2.24E-03
M15772	M40452	-0.11820765	8.08E-06	2.24E-03
M21134	M40452	0.11816913	8.14E-06	2.26E-03
M05086	M37501	0.11812342	8.20E-06	2.27E-03
M38399	denovo129	0.11811739	8.21E-06	2.27E-03
M27680	denovo469	-0.11809292	8.25E-06	2.28E-03
M00608	M03141	0.11806897	8.28E-06	2.29E-03
M01868	M37443	0.11806605	8.29E-06	2.29E-03
M43449	denovo4811	-0.11802802	8.34E-06	2.30E-03
denovo82	denovo8442	-0.11799777	8.39E-06	2.31E-03
M15587	denovo486	-0.11798345	8.41E-06	2.31E-03
denovo111	denovo40	0.11796217	8.44E-06	2.32E-03
M31539	M43023	-0.11782115	8.65E-06	2.37E-03
denovo105	denovo120	-0.11780484	8.68E-06	2.37E-03
M01586	denovo850	0.11774014	8.78E-06	2.40E-03
M01498	M48141	0.1177369	8.78E-06	2.40E-03
denovo11	denovo728	0.11770383	8.83E-06	2.41E-03
M48152	M48195	0.11762288	8.96E-06	2.44E-03
M01124	denovo6	-0.11759735	9.00E-06	2.44E-03
denovo1504	denovo283	0.11751815	9.13E-06	2.47E-03
denovo835	denovo983	0.11749776	9.16E-06	2.48E-03
denovo129	denovo43	0.11746608	9.21E-06	2.49E-03
denovo42	denovo48	0.11744676	9.25E-06	2.50E-03
denovo530	denovo852	0.11744668	9.25E-06	2.50E-03
denovo1551	denovo1819	-0.11742075	9.29E-06	2.51E-03
denovo2911	denovo906	0.11739495	9.33E-06	2.51E-03
M00060	M01125	0.11733727	9.43E-06	2.54E-03
denovo329	denovo850	0.1173084	9.47E-06	2.55E-03
denovo1358	denovo824	0.11727766	9.53E-06	2.56E-03
denovo117	denovo386	-0.11727157	9.54E-06	2.56E-03
denovo1271	denovo733	0.11724658	9.58E-06	2.57E-03
denovo130	denovo445	-0.11724607	9.58E-06	2.57E-03
denovo111	denovo239	0.11711513	9.80E-06	2.62E-03
denovo66	denovo7275	-0.11706009	9.90E-06	2.64E-03
M33943	denovo150	0.11702233	9.96E-06	2.65E-03
M31530	M37093	0.1170222	9.96E-06	2.65E-03
M38109	M52473	-0.11700852	9.99E-06	2.66E-03
denovo1804	denovo621	0.11699719	1.00E-05	2.66E-03
M41370	M47231	0.11698214	1.00E-05	2.67E-03
M34387	M42978	0.11694633	1.01E-05	2.68E-03
M21127	denovo98	-0.11686694	1.02E-05	2.71E-03
M43026	M54676	-0.11683246	1.03E-05	2.72E-03
denovo231	denovo377	0.11675214	1.04E-05	2.75E-03
M32377	M47715	0.11664165	1.07E-05	2.80E-03
M00604	M00605	0.11659815	1.07E-05	2.82E-03

M42395	denovo11	0.11659405	1.07E-05	2.82E-03
M38116	denovo120	0.1165677	1.08E-05	2.83E-03
denovo276	denovo377	0.11656595	1.08E-05	2.83E-03
M47101	denovo13	0.11653229	1.09E-05	2.84E-03
denovo182	denovo43	0.11652954	1.09E-05	2.84E-03
denovo1200	denovo1398	0.11651218	1.09E-05	2.85E-03
denovo1200	denovo2040	-0.11649588	1.09E-05	2.86E-03
M31532	denovo102	-0.11643771	1.10E-05	2.88E-03
denovo2006	denovo2118	-0.11640686	1.11E-05	2.89E-03
M21169	M47101	0.11635968	1.12E-05	2.91E-03
denovo153	denovo27	0.11621636	1.15E-05	2.98E-03
denovo593	denovo6588	0.11613983	1.16E-05	3.01E-03
M33935	denovo1012	-0.11610721	1.17E-05	3.02E-03
M00053	M01284	0.11604837	1.18E-05	3.05E-03
denovo343	denovo37	-0.11601885	1.19E-05	3.06E-03
denovo153	denovo1539	0.11600323	1.19E-05	3.07E-03
denovo632	denovo915	-0.11600202	1.19E-05	3.07E-03
denovo1157	denovo1244	0.11595507	1.20E-05	3.09E-03
denovo0	denovo10545	0.11594984	1.20E-05	3.09E-03
denovo1555	denovo169	-0.11591344	1.21E-05	3.11E-03
M15765	denovo819	-0.11585648	1.22E-05	3.13E-03
M35879	M40700	-0.11583439	1.23E-05	3.14E-03
M00608	denovo1396	0.11579537	1.23E-05	3.16E-03
denovo225	denovo97	0.11579471	1.24E-05	3.16E-03
denovo120	denovo71	0.11573978	1.25E-05	3.19E-03
denovo343	denovo424	0.11571466	1.25E-05	3.20E-03
M27513	M43026	-0.11562623	1.27E-05	3.24E-03
denovo1551	denovo850	0.11550723	1.30E-05	3.29E-03
M37069	M46336	-0.11550581	1.30E-05	3.29E-03
M18369	M37063	0.11550164	1.30E-05	3.30E-03
M15716	M47715	0.11550156	1.30E-05	3.30E-03
M00608	denovo2911	0.11540802	1.32E-05	3.34E-03
M01411	M01573	0.11534221	1.34E-05	3.37E-03
M36808	M43400	0.11531969	1.34E-05	3.38E-03
M43507	denovo27	0.1152196	1.36E-05	3.43E-03
denovo45	denovo884	0.11518445	1.37E-05	3.45E-03
denovo1027	denovo8	0.115175	1.38E-05	3.45E-03
M32350	denovo1713	-0.11516341	1.38E-05	3.46E-03
M01585	denovo16	-0.1151459	1.38E-05	3.47E-03
denovo1504	denovo445	0.11501129	1.41E-05	3.53E-03
M00554	M37070	0.11494779	1.43E-05	3.56E-03
M33953	M47715	0.11490884	1.44E-05	3.58E-03
M01868	M53231	0.11489174	1.44E-05	3.59E-03
denovo705	denovo819	0.11483055	1.46E-05	3.62E-03
denovo621	denovo69	0.11469201	1.50E-05	3.69E-03
denovo45	denovo461	-0.11463998	1.51E-05	3.72E-03
M18362	M32398	0.11462275	1.51E-05	3.73E-03
M34387	M52282	0.11460999	1.52E-05	3.73E-03
denovo222	denovo328	-0.11455086	1.53E-05	3.76E-03
denovo169	denovo57	-0.11454878	1.53E-05	3.76E-03

denovo1539	denovo7275	0.11450629	1.54E-05	3.79E-03
M01552	M53215	0.11448885	1.55E-05	3.79E-03
denovo461	denovo52	-0.1144844	1.55E-05	3.80E-03
denovo1082	denovo16	0.11447832	1.55E-05	3.80E-03
M38395	denovo31	0.11446285	1.56E-05	3.81E-03
denovo237	denovo77	0.11445379	1.56E-05	3.81E-03
M00527	M18354	-0.1144311	1.56E-05	3.82E-03
M01527	M47391	0.11441826	1.57E-05	3.83E-03
M46142	denovo6069	-0.11434212	1.59E-05	3.87E-03
denovo150	denovo361	-0.11431351	1.60E-05	3.89E-03
M38165	M52608	0.11430841	1.60E-05	3.89E-03
M38665	M39788	-0.11430751	1.60E-05	3.89E-03
M15720	M33943	0.1142846	1.60E-05	3.90E-03
M02132	M22118	0.11427204	1.61E-05	3.91E-03
denovo217	denovo343	0.11426735	1.61E-05	3.91E-03
M00569	M34424	-0.11426321	1.61E-05	3.91E-03
M32401	M47101	0.11426115	1.61E-05	3.91E-03
M54723	denovo43	-0.11424712	1.61E-05	3.92E-03
M01411	M15949	0.11419856	1.63E-05	3.95E-03
denovo1782	denovo486	-0.11412003	1.65E-05	3.99E-03
M37076	M39583	0.11410738	1.65E-05	3.99E-03
denovo10643	denovo169	-0.11409966	1.66E-05	4.00E-03
M15778	M32401	0.11405996	1.67E-05	4.02E-03
denovo1082	denovo1490	-0.11404069	1.67E-05	4.03E-03
M15729	M35678	-0.11401274	1.68E-05	4.05E-03
denovo25	denovo58	0.11399658	1.69E-05	4.05E-03
M40007	M44577	0.1139895	1.69E-05	4.06E-03
M15716	M15747	-0.11386113	1.72E-05	4.13E-03
M00485	M34093	-0.11382304	1.74E-05	4.15E-03
M03155	M35107	-0.11375471	1.76E-05	4.19E-03
M00396	denovo1555	-0.11373903	1.76E-05	4.20E-03
denovo278	denovo819	-0.11372515	1.77E-05	4.20E-03
denovo0	denovo217	0.11371879	1.77E-05	4.21E-03
M40045	M43028	0.11361423	1.80E-05	4.27E-03
M32377	M39271	0.11360821	1.80E-05	4.27E-03
denovo351	denovo424	-0.11357797	1.81E-05	4.29E-03
denovo403	denovo850	0.11357481	1.81E-05	4.29E-03
denovo1710	denovo1868	-0.11353005	1.83E-05	4.32E-03
denovo705	denovo813	0.11350147	1.83E-05	4.33E-03
denovo463	denovo82	0.11349481	1.84E-05	4.34E-03
denovo1504	denovo86	0.11348261	1.84E-05	4.34E-03
denovo424	denovo7	-0.11342554	1.86E-05	4.37E-03
M27718	denovo906	-0.11338768	1.87E-05	4.40E-03
denovo276	denovo936	0.11337332	1.87E-05	4.41E-03
M03155	M36103	-0.11336346	1.88E-05	4.41E-03
denovo2040	denovo372	0.11335277	1.88E-05	4.42E-03
denovo10545	denovo1737	0.11335154	1.88E-05	4.42E-03
M54676	denovo281	-0.11332284	1.89E-05	4.43E-03
denovo1804	denovo806	0.11331851	1.89E-05	4.44E-03
M32415	M38625	-0.11330748	1.90E-05	4.44E-03

M38395	M42971	-0.11327722	1.91E-05	4.46E-03
denovo120	denovo1819	-0.11324151	1.92E-05	4.48E-03
M01510	M32377	-0.11321893	1.92E-05	4.50E-03
denovo111	denovo765	0.11314826	1.95E-05	4.54E-03
M15586	M48885	-0.11308551	1.97E-05	4.58E-03
M00514	M00606	0.11307736	1.97E-05	4.58E-03
denovo1026	denovo1050	0.11306852	1.97E-05	4.59E-03
M42109	M43847	0.11306701	1.98E-05	4.59E-03
denovo31	denovo55	0.11302995	1.99E-05	4.61E-03
denovo1710	denovo351	-0.11299151	2.00E-05	4.64E-03
M34384	denovo237	0.11288833	2.04E-05	4.70E-03
denovo1398	denovo35	0.11286219	2.05E-05	4.72E-03
M33942	M43493	0.11284475	2.05E-05	4.73E-03
denovo350	denovo530	0.11281482	2.06E-05	4.75E-03
M15142	denovo213	0.11276713	2.08E-05	4.78E-03
denovo52	denovo59	0.11275364	2.08E-05	4.79E-03
M34035	M35630	0.11273785	2.09E-05	4.80E-03
M36713	M38395	0.11272931	2.09E-05	4.80E-03
M00055	denovo467	-0.11270352	2.10E-05	4.82E-03
denovo1713	denovo29	-0.11268191	2.11E-05	4.83E-03
denovo1244	denovo998	-0.11263517	2.13E-05	4.86E-03
denovo230	denovo343	0.11257714	2.15E-05	4.90E-03
M03127	M38672	-0.11256566	2.15E-05	4.91E-03
M01494	M45986	0.11246205	2.19E-05	4.97E-03
M01124	M15506	0.1124563	2.19E-05	4.98E-03
denovo2553	denovo564	0.11245113	2.19E-05	4.98E-03
M45434	denovo1157	0.1124454	2.20E-05	4.98E-03
denovo124	denovo96	-0.11240829	2.21E-05	5.01E-03
M22138	M38749	0.11240683	2.21E-05	5.01E-03
denovo103	denovo105	0.11234893	2.23E-05	5.05E-03
denovo124	denovo424	-0.11226638	2.26E-05	5.10E-03
denovo1154	denovo530	0.11226636	2.26E-05	5.10E-03
M18319	M48455	0.11222544	2.28E-05	5.13E-03
denovo142	denovo2390	0.11216664	2.30E-05	5.17E-03
M20676	M41888	0.11214751	2.31E-05	5.18E-03
denovo11	denovo252	0.11212693	2.32E-05	5.20E-03
denovo27	denovo350	0.1121204	2.32E-05	5.20E-03
M34387	denovo120	0.11211741	2.32E-05	5.20E-03
M41374	M42079	0.11210956	2.32E-05	5.21E-03
denovo111	denovo593	0.11209691	2.33E-05	5.22E-03
denovo102	denovo463	-0.11208199	2.33E-05	5.23E-03
M00587	M03141	0.11198862	2.37E-05	5.29E-03
M27673	M33444	0.11197527	2.38E-05	5.30E-03
denovo169	denovo856	0.1119232	2.40E-05	5.33E-03
M18354	M46539	0.11190822	2.40E-05	5.34E-03
denovo225	denovo25	0.1119077	2.40E-05	5.35E-03
M15730	M42395	0.11190183	2.41E-05	5.35E-03
denovo31	denovo449	-0.11185481	2.43E-05	5.38E-03
M15500	denovo169	0.1118499	2.43E-05	5.38E-03
denovo445	denovo8	-0.11184335	2.43E-05	5.39E-03

M18362	M36749	0.11181423	2.44E-05	5.41E-03
M41370	M41374	0.11181197	2.44E-05	5.41E-03
M15730	denovo915	0.11179297	2.45E-05	5.42E-03
denovo1182	denovo743	0.11174893	2.47E-05	5.45E-03
M01603	denovo121	-0.1117317	2.48E-05	5.47E-03
denovo2390	denovo691	0.11167197	2.50E-05	5.51E-03
M46142	denovo25	0.11163902	2.52E-05	5.53E-03
M42370	M52282	0.11162532	2.52E-05	5.54E-03
M06104	M22177	0.11162191	2.52E-05	5.54E-03
denovo17	denovo806	0.11157128	2.54E-05	5.58E-03
M39587	M52282	0.11156695	2.55E-05	5.58E-03
M45970	denovo526	-0.11156204	2.55E-05	5.59E-03
denovo1182	denovo611	0.11148885	2.58E-05	5.64E-03
denovo1539	denovo1782	-0.11140024	2.62E-05	5.71E-03
M01512	M32306	0.11139465	2.62E-05	5.71E-03
M36754	M37501	0.11135914	2.64E-05	5.74E-03
denovo52	denovo95	0.11134991	2.64E-05	5.74E-03
M15778	M36713	-0.11131573	2.66E-05	5.77E-03
M01114	M32346	-0.11127145	2.68E-05	5.80E-03
denovo467	denovo724	-0.11121961	2.70E-05	5.84E-03
denovo194	denovo884	-0.11108982	2.76E-05	5.94E-03
M01124	M46142	0.11105766	2.77E-05	5.97E-03
M00513	M15778	0.11101255	2.79E-05	6.00E-03
denovo728	denovo73	0.11097294	2.81E-05	6.03E-03
M22176	M42971	0.11093385	2.83E-05	6.06E-03
denovo2553	denovo42	0.11092804	2.83E-05	6.07E-03
M45434	denovo445	0.1109186	2.84E-05	6.07E-03
denovo1012	denovo938	0.11091137	2.84E-05	6.08E-03
denovo19804	denovo875	0.11082581	2.88E-05	6.14E-03
denovo330	denovo8401	0.11082358	2.88E-05	6.15E-03
M35678	M38116	0.11081179	2.89E-05	6.16E-03
M00554	M32352	0.11081081	2.89E-05	6.16E-03
M18354	M43026	-0.11078577	2.90E-05	6.18E-03
denovo8	denovo95	0.11077332	2.91E-05	6.19E-03
denovo887	denovo915	-0.11075749	2.92E-05	6.20E-03
M32306	M40730	0.1106671	2.96E-05	6.27E-03
M01512	M36747	-0.1106223	2.98E-05	6.31E-03
denovo621	denovo691	0.11059537	3.00E-05	6.33E-03
M00575	M02125	0.11056323	3.01E-05	6.35E-03
M15745	M32197	-0.11055061	3.02E-05	6.36E-03
M00608	M01827	0.11054279	3.02E-05	6.37E-03
M00485	M01498	0.11046465	3.06E-05	6.43E-03
M00513	M48114	0.11041217	3.09E-05	6.47E-03
M36738	M43530	-0.1104071	3.09E-05	6.48E-03
M01494	denovo2118	-0.11040655	3.09E-05	6.48E-03
M39994	M40010	0.1104026	3.09E-05	6.48E-03
denovo1555	denovo611	0.11039022	3.10E-05	6.49E-03
M33955	M34396	0.11036999	3.11E-05	6.51E-03
M01561	denovo77	-0.11036854	3.11E-05	6.51E-03
denovo230	denovo239	0.1103572	3.12E-05	6.52E-03

M01603	denovo998	-0.11035588	3.12E-05	6.52E-03
M33943	denovo106	-0.11034845	3.12E-05	6.53E-03
M45434	denovo759	-0.11032837	3.13E-05	6.54E-03
M00587	M27731	0.11032482	3.13E-05	6.54E-03
denovo162	denovo801	-0.11031086	3.14E-05	6.56E-03
M35114	denovo330	0.11030293	3.15E-05	6.56E-03
M46142	denovo449	0.11027022	3.16E-05	6.59E-03
denovo106	denovo1182	0.11025961	3.17E-05	6.60E-03
denovo0	denovo237	-0.11025599	3.17E-05	6.60E-03
M21134	M49663	0.11019729	3.20E-05	6.65E-03
M40475	M42079	0.11014863	3.23E-05	6.69E-03
M33013	M48885	-0.1101299	3.24E-05	6.70E-03
denovo102	denovo256	0.11010486	3.25E-05	6.72E-03
M00396	M32388	-0.110101	3.25E-05	6.73E-03
M01495	M35675	-0.11009167	3.26E-05	6.74E-03
denovo283	denovo887	-0.11002208	3.30E-05	6.79E-03
M18319	M33953	-0.11001423	3.30E-05	6.80E-03
denovo10623	denovo736	-0.10997558	3.32E-05	6.83E-03
M48433	M48434	0.10996127	3.33E-05	6.84E-03
denovo1358	denovo469	-0.10994945	3.34E-05	6.85E-03
M35651	denovo77	-0.10991189	3.36E-05	6.88E-03
M15772	M15778	-0.10989955	3.36E-05	6.90E-03
denovo4811	denovo884	0.10985239	3.39E-05	6.93E-03
denovo29	denovo82	0.109837	3.40E-05	6.95E-03
M01642	M33968	0.10982252	3.41E-05	6.96E-03
M22130	M22132	0.10980953	3.41E-05	6.97E-03
M36103	denovo94	-0.10979386	3.42E-05	6.98E-03
denovo414	denovo97	0.10978366	3.43E-05	6.99E-03
M00555	M49647	-0.10978088	3.43E-05	7.00E-03
M27680	M40007	0.10978004	3.43E-05	7.00E-03
denovo1026	denovo806	-0.10976807	3.44E-05	7.01E-03
M03141	M48885	0.10976142	3.44E-05	7.01E-03
M31532	denovo6591	0.10969775	3.48E-05	7.07E-03
M15443	M15581	0.10969756	3.48E-05	7.07E-03
M01336	M01365	0.10969037	3.48E-05	7.07E-03
M15142	M31555	-0.10965701	3.50E-05	7.10E-03
M49663	denovo10623	0.10962517	3.52E-05	7.13E-03
M18374	M41888	-0.10959963	3.53E-05	7.15E-03
M40452	M47101	0.10959568	3.54E-05	7.15E-03
denovo403	denovo801	0.10957935	3.55E-05	7.17E-03
M15506	M27718	-0.10954612	3.57E-05	7.19E-03
M40084	M43807	0.10953599	3.57E-05	7.20E-03
M40010	M48189	0.10943923	3.63E-05	7.29E-03
denovo1494	denovo329	0.10938359	3.66E-05	7.33E-03
M15716	denovo230	0.10937256	3.67E-05	7.34E-03
M01586	denovo281	0.10935841	3.68E-05	7.36E-03
M34404	M34424	0.10933628	3.69E-05	7.38E-03
denovo1271	denovo856	0.10933431	3.69E-05	7.38E-03
M48455	denovo465	0.10932523	3.70E-05	7.39E-03
denovo48	denovo875	-0.1093203	3.70E-05	7.39E-03

M18369	M52278	0.10931772	3.70E-05	7.39E-03
M38273	denovo42	-0.10929246	3.72E-05	7.41E-03
M22177	M48149	-0.10928814	3.72E-05	7.42E-03
denovo138	denovo1782	0.10926963	3.73E-05	7.43E-03
denovo200	denovo724	-0.10926708	3.73E-05	7.44E-03
denovo230	denovo611	0.10926215	3.74E-05	7.44E-03
denovo133	denovo471	0.10925532	3.74E-05	7.45E-03
M15667	M15958	-0.10923849	3.75E-05	7.46E-03
denovo1027	denovo144	0.10919567	3.78E-05	7.50E-03
M00513	M34381	0.10919397	3.78E-05	7.50E-03
denovo43	denovo465	0.10917292	3.79E-05	7.52E-03
denovo150	denovo57	0.10916458	3.80E-05	7.53E-03
denovo1244	denovo94	-0.10916283	3.80E-05	7.53E-03
denovo1494	denovo743	0.10915439	3.80E-05	7.53E-03
M01512	M47101	0.10914703	3.81E-05	7.54E-03
denovo388	denovo788	-0.10906916	3.86E-05	7.61E-03
M01594	M37070	-0.10906637	3.86E-05	7.62E-03
M34457	M37063	0.10894489	3.94E-05	7.73E-03
denovo1027	denovo1613	-0.10893525	3.94E-05	7.74E-03
denovo1205	denovo1490	0.10890045	3.97E-05	7.77E-03
M41888	M43231	0.10889692	3.97E-05	7.78E-03
M00528	M01303	0.10887488	3.98E-05	7.80E-03
M21158	denovo463	0.10884009	4.01E-05	7.83E-03
M01585	M27710	0.10882874	4.01E-05	7.84E-03
denovo1504	denovo1581	0.10882372	4.02E-05	7.84E-03
M15765	M36752	0.10874388	4.07E-05	7.92E-03
denovo252	denovo814	0.10869664	4.10E-05	7.97E-03
M00568	denovo1205	0.10861298	4.16E-05	8.05E-03
M15135	M38165	0.10860257	4.16E-05	8.06E-03
denovo101	denovo464	-0.10859634	4.17E-05	8.06E-03
M36738	M39788	0.10857176	4.19E-05	8.09E-03
denovo16	denovo281	0.10856045	4.19E-05	8.10E-03
denovo806	denovo824	0.10855118	4.20E-05	8.11E-03
denovo1396	denovo1819	0.10854741	4.20E-05	8.11E-03
M48114	denovo916	-0.10854523	4.20E-05	8.11E-03
M01604	M36747	-0.10848606	4.25E-05	8.17E-03
denovo162	denovo2040	0.10848413	4.25E-05	8.17E-03
denovo153	denovo55	0.10847747	4.25E-05	8.18E-03
M52340	denovo856	-0.10847602	4.25E-05	8.18E-03
M37093	M39994	0.10846529	4.26E-05	8.19E-03
M21169	M35635	0.10843826	4.28E-05	8.21E-03
M34400	M34404	-0.10842867	4.29E-05	8.22E-03
denovo101	denovo225	0.10841461	4.30E-05	8.24E-03
denovo1271	denovo256	0.10839206	4.31E-05	8.26E-03
denovo1012	denovo388	-0.10834595	4.34E-05	8.30E-03
M15730	M18362	0.1083218	4.36E-05	8.33E-03
denovo133	denovo60	0.10831625	4.36E-05	8.33E-03
denovo2006	denovo372	-0.10830654	4.37E-05	8.34E-03
M15681	M36808	0.10827607	4.39E-05	8.37E-03
denovo194	denovo2040	0.10827567	4.39E-05	8.37E-03

M05341	denovo372	0.10822459	4.43E-05	8.42E-03
M38293	M48885	-0.10820277	4.45E-05	8.45E-03
M33959	denovo13	0.10819023	4.46E-05	8.46E-03
denovo213	denovo329	0.10818353	4.46E-05	8.46E-03
M01591	M42374	0.10814096	4.49E-05	8.51E-03
denovo38	denovo95	-0.10813099	4.50E-05	8.52E-03
M21158	denovo38	0.10813087	4.50E-05	8.52E-03
M01336	M52285	0.10811718	4.51E-05	8.53E-03
M46225	denovo936	-0.10809745	4.52E-05	8.55E-03
M17895	M52340	0.10809108	4.53E-05	8.56E-03
M22138	M36752	0.10804447	4.56E-05	8.60E-03
denovo22	denovo530	0.10801544	4.58E-05	8.63E-03
M46142	denovo364	-0.10800786	4.59E-05	8.64E-03
denovo113	denovo82	0.1080004	4.60E-05	8.65E-03
denovo1154	denovo1398	-0.10798534	4.61E-05	8.66E-03
M32489	M33443	0.10797921	4.61E-05	8.67E-03
M43231	denovo2006	0.10797196	4.62E-05	8.68E-03
M00568	denovo728	-0.1079531	4.63E-05	8.69E-03
denovo25	denovo35	0.10794628	4.64E-05	8.70E-03
denovo144	denovo91	0.10793917	4.64E-05	8.71E-03
M01868	M15747	0.10793686	4.64E-05	8.71E-03
denovo114	denovo461	0.10789142	4.68E-05	8.76E-03
M43507	denovo565	0.1078888	4.68E-05	8.76E-03
M01411	M37070	-0.1078759	4.69E-05	8.77E-03
denovo22	denovo55	-0.10786248	4.70E-05	8.79E-03
M02125	M18335	0.10785027	4.71E-05	8.80E-03
denovo82	denovo91	0.10783691	4.72E-05	8.81E-03
denovo106	denovo329	-0.10782841	4.73E-05	8.82E-03
M18292	M54723	0.1078245	4.73E-05	8.82E-03
M18354	M37455	0.10781176	4.74E-05	8.84E-03
M01284	M01648	0.10780169	4.75E-05	8.85E-03
M38125	denovo826	0.10779397	4.75E-05	8.85E-03
denovo124	denovo150	-0.10775253	4.79E-05	8.90E-03
M42109	M54723	0.10773242	4.80E-05	8.92E-03
M01336	M01356	0.1077112	4.82E-05	8.94E-03
denovo733	denovo814	0.10770583	4.82E-05	8.95E-03
denovo31	denovo908	0.10768817	4.84E-05	8.97E-03
M40045	M40475	0.10763493	4.88E-05	9.03E-03
M18354	M43231	0.10760479	4.90E-05	9.06E-03
M35892	M36103	0.10759408	4.91E-05	9.07E-03
denovo1027	denovo852	0.10756986	4.93E-05	9.10E-03
denovo103	denovo7275	-0.10756892	4.93E-05	9.10E-03
denovo52	denovo936	0.10756734	4.93E-05	9.10E-03
M00059	M53231	0.10754179	4.95E-05	9.13E-03
denovo724	denovo759	-0.1074554	5.02E-05	9.22E-03
denovo923	denovo94	0.10745283	5.02E-05	9.23E-03
denovo733	denovo998	0.10742608	5.05E-05	9.26E-03
denovo234	denovo424	0.10739902	5.07E-05	9.29E-03
denovo1155	denovo1485	0.10738409	5.08E-05	9.31E-03
M32620	denovo45	-0.10732179	5.13E-05	9.38E-03

denovo1333	denovo916	-0.10731776	5.14E-05	9.38E-03
M34424	M35892	0.10730853	5.14E-05	9.39E-03
M42370	denovo1485	0.10729046	5.16E-05	9.41E-03
M32350	denovo213	0.10726407	5.18E-05	9.44E-03
denovo1311	denovo494	0.10718577	5.25E-05	9.53E-03
denovo2136	denovo8	-0.10717659	5.25E-05	9.54E-03
denovo1555	denovo856	0.10715346	5.27E-05	9.57E-03
M03147	M38672	-0.10713907	5.29E-05	9.59E-03
M21134	denovo1031	0.10712765	5.30E-05	9.60E-03
denovo1581	denovo691	-0.10712174	5.30E-05	9.61E-03
M21177	M34387	0.10709304	5.33E-05	9.64E-03
M48195	denovo467	0.10707163	5.34E-05	9.66E-03
M37093	M48189	0.10706289	5.35E-05	9.67E-03
M18319	M40406	0.1070529	5.36E-05	9.69E-03
denovo1154	denovo564	0.1070523	5.36E-05	9.69E-03
M21134	M40730	0.1070386	5.37E-05	9.70E-03
M00055	denovo4811	0.10702293	5.39E-05	9.72E-03
M34399	M35678	-0.10702203	5.39E-05	9.72E-03
M15130	M47715	0.1069917	5.41E-05	9.76E-03
denovo414	denovo73	0.1069722	5.43E-05	9.78E-03
M01638	denovo94	-0.10696263	5.44E-05	9.79E-03
M33997	M45434	-0.10693349	5.47E-05	9.83E-03
denovo2456	denovo593	0.10692131	5.48E-05	9.84E-03
denovo5306	denovo826	-0.1068495	5.54E-05	9.92E-03
denovo526	denovo915	0.10684036	5.55E-05	9.94E-03
denovo4811	denovo94	0.10683467	5.55E-05	9.94E-03
denovo150	denovo936	0.10683189	5.56E-05	9.95E-03
M01365	M32418	0.10680243	5.58E-05	9.98E-03
M15681	M37431	-0.10679432	5.59E-05	9.99E-03
M46960	denovo213	0.10675313	5.63E-05	1.00E-02
denovo111	denovo120	-0.10671643	5.66E-05	1.01E-02
denovo222	denovo938	0.10666451	5.71E-05	1.01E-02
M33444	M44656	0.10662063	5.75E-05	1.02E-02
M15749	denovo22	-0.10661132	5.76E-05	1.02E-02
M20691	denovo728	-0.10660725	5.76E-05	1.02E-02
M18292	denovo824	0.10660303	5.76E-05	1.02E-02
denovo235	denovo614	-0.10658243	5.78E-05	1.02E-02
M01510	denovo2456	0.10653643	5.83E-05	1.03E-02
M33939	M34399	-0.10653007	5.83E-05	1.03E-02
M00608	denovo1290	-0.10652791	5.83E-05	1.03E-02
denovo1551	denovo923	0.10650893	5.85E-05	1.03E-02
M36754	denovo256	0.10649095	5.87E-05	1.04E-02
denovo5306	denovo923	0.10647505	5.88E-05	1.04E-02
M27447	M34035	0.10647083	5.89E-05	1.04E-02
M15122	M52285	0.10646308	5.90E-05	1.04E-02
denovo887	denovo938	0.10645381	5.90E-05	1.04E-02
M00541	denovo403	0.10640472	5.95E-05	1.05E-02
denovo724	denovo906	0.10629566	6.06E-05	1.06E-02
M42971	denovo90	-0.10627914	6.07E-05	1.06E-02
M05086	M35101	0.10627512	6.08E-05	1.06E-02

denovo1737	denovo759	0.10626756	6.08E-05	1.06E-02
M31555	M38399	0.10624055	6.11E-05	1.07E-02
M20691	M43026	-0.10622959	6.12E-05	1.07E-02
M37431	M43530	0.10621477	6.14E-05	1.07E-02
denovo733	denovo908	0.10615104	6.20E-05	1.08E-02
M01494	denovo632	0.10614983	6.20E-05	1.08E-02
M33959	denovo235	-0.10612642	6.22E-05	1.08E-02
M43027	denovo11	-0.10611986	6.23E-05	1.08E-02
M43258	denovo351	0.10611636	6.23E-05	1.08E-02
denovo114	denovo743	0.10611269	6.24E-05	1.08E-02
M34035	M46142	-0.10609695	6.25E-05	1.08E-02
M27680	M40700	0.10607636	6.27E-05	1.09E-02
M27513	denovo169	0.10607033	6.28E-05	1.09E-02
denovo530	denovo875	-0.10606231	6.29E-05	1.09E-02
M38749	M43026	0.1060184	6.33E-05	1.09E-02
M33943	denovo1290	-0.10600243	6.35E-05	1.10E-02
denovo364	denovo835	-0.10599717	6.35E-05	1.10E-02
denovo239	denovo7	-0.10599555	6.36E-05	1.10E-02
M33949	M34457	0.10597522	6.38E-05	1.10E-02
M01125	M01649	0.10593218	6.42E-05	1.10E-02
M34384	denovo2390	-0.10591447	6.44E-05	1.11E-02
M00605	M03127	0.10590071	6.45E-05	1.11E-02
M01494	denovo463	-0.10589746	6.46E-05	1.11E-02
M00587	denovo46	0.10589074	6.46E-05	1.11E-02
M31938	M43412	0.10587793	6.48E-05	1.11E-02
denovo1068	denovo916	0.10587371	6.48E-05	1.11E-02
denovo1027	denovo6	-0.10585649	6.50E-05	1.11E-02
M15500	M48114	0.10584244	6.51E-05	1.12E-02
denovo182	denovo239	0.10581737	6.54E-05	1.12E-02
M01585	M32620	-0.10579032	6.57E-05	1.12E-02
M22120	denovo94	-0.10579017	6.57E-05	1.12E-02
denovo1	denovo4811	0.10578811	6.57E-05	1.12E-02
M40452	M43449	0.10576702	6.59E-05	1.12E-02
M18476	M38665	0.10575776	6.60E-05	1.13E-02
M43847	M52307	0.1057573	6.60E-05	1.13E-02
denovo153	denovo564	0.10573324	6.63E-05	1.13E-02
M15730	denovo213	0.10571025	6.65E-05	1.13E-02
M37431	M46410	0.10570256	6.66E-05	1.13E-02
denovo6053	denovo908	0.10566468	6.70E-05	1.14E-02
denovo1082	denovo1154	0.10565193	6.72E-05	1.14E-02
M38399	M38672	-0.10565145	6.72E-05	1.14E-02
M15729	M36103	-0.10561148	6.76E-05	1.14E-02
M36738	denovo884	-0.10554534	6.83E-05	1.15E-02
M01118	M01121	0.10553278	6.84E-05	1.15E-02
M01651	denovo465	0.10551173	6.87E-05	1.16E-02
M36738	M38749	0.10549584	6.88E-05	1.16E-02
M01505	denovo129	-0.10548776	6.89E-05	1.16E-02
M15587	denovo276	-0.10547946	6.90E-05	1.16E-02
denovo1555	denovo377	-0.10545786	6.93E-05	1.16E-02
denovo1064	denovo728	-0.10544923	6.94E-05	1.17E-02

denovo46	denovo73	-0.10542473	6.96E-05	1.17E-02
M01510	M17747	0.10540866	6.98E-05	1.17E-02
denovo652	denovo8442	-0.1053595	7.04E-05	1.18E-02
M00055	M38665	-0.10535068	7.05E-05	1.18E-02
M48141	denovo915	0.10534251	7.06E-05	1.18E-02
denovo111	denovo91	-0.10530835	7.09E-05	1.18E-02
denovo6591	denovo7275	0.10529529	7.11E-05	1.18E-02
denovo101	denovo916	0.10527627	7.13E-05	1.19E-02
denovo372	denovo494	0.10526549	7.14E-05	1.19E-02
M34384	M52413	-0.10524289	7.17E-05	1.19E-02
denovo252	denovo486	-0.10523445	7.18E-05	1.19E-02
M01603	denovo95	-0.10522374	7.19E-05	1.19E-02
M33939	denovo724	-0.1051839	7.24E-05	1.20E-02
M31555	denovo336	0.10517882	7.24E-05	1.20E-02
denovo1082	denovo1182	0.10515979	7.26E-05	1.20E-02
denovo217	denovo350	-0.10515361	7.27E-05	1.20E-02
M15135	denovo458	0.1051394	7.29E-05	1.21E-02
M35879	M49663	0.1051008	7.33E-05	1.21E-02
M00531	M21134	0.10506028	7.38E-05	1.22E-02
M01128	M38125	0.10503058	7.41E-05	1.22E-02
denovo102	denovo1581	0.10503016	7.41E-05	1.22E-02
denovo11	denovo6069	-0.10502471	7.42E-05	1.22E-02
M33943	denovo1012	-0.10499002	7.46E-05	1.22E-02
denovo1461	denovo2006	0.10498888	7.46E-05	1.22E-02
denovo121	denovo77	0.10498167	7.47E-05	1.23E-02
M37496	M43530	0.10497916	7.48E-05	1.23E-02
denovo915	denovo998	-0.10497292	7.48E-05	1.23E-02
denovo1031	denovo45	-0.10495713	7.50E-05	1.23E-02
M48857	denovo530	0.10494632	7.51E-05	1.23E-02
denovo743	denovo765	0.10493636	7.53E-05	1.23E-02
denovo194	denovo91	0.10493291	7.53E-05	1.23E-02
denovo0	denovo522	0.10491122	7.56E-05	1.24E-02
denovo1804	denovo403	-0.1049043	7.56E-05	1.24E-02
M33935	M35630	-0.10488484	7.59E-05	1.24E-02
denovo230	denovo458	0.10486942	7.61E-05	1.24E-02
M36103	M42971	0.10484628	7.63E-05	1.24E-02
M21134	denovo1237	0.10484572	7.64E-05	1.24E-02
M15765	M32391	-0.10484316	7.64E-05	1.24E-02
denovo1085	denovo252	0.10482375	7.66E-05	1.25E-02
M37076	denovo222	0.10480443	7.69E-05	1.25E-02
M01827	M22176	0.10478813	7.71E-05	1.25E-02
denovo182	denovo230	-0.10478607	7.71E-05	1.25E-02
M15443	M20758	0.10477453	7.72E-05	1.25E-02
M32377	M35892	-0.10477443	7.72E-05	1.25E-02
M47715	denovo806	-0.1047742	7.72E-05	1.25E-02
M01114	M18476	-0.10476951	7.73E-05	1.25E-02
M43412	denovo1490	-0.10475352	7.75E-05	1.26E-02
denovo237	denovo908	-0.10474956	7.75E-05	1.26E-02
denovo162	denovo230	-0.10474368	7.76E-05	1.26E-02
denovo124	denovo461	-0.10472674	7.78E-05	1.26E-02

M36749	denovo231	0.10470494	7.81E-05	1.26E-02
denovo1012	denovo5037	-0.10469127	7.82E-05	1.26E-02
M18292	denovo362	0.10468723	7.83E-05	1.26E-02
denovo593	denovo759	-0.10466699	7.85E-05	1.27E-02
M36754	M42971	-0.10464406	7.88E-05	1.27E-02
M00587	M48141	0.10461803	7.92E-05	1.27E-02
M31555	M42489	0.10460301	7.93E-05	1.28E-02
M40007	denovo114	0.1046029	7.93E-05	1.28E-02
denovo1027	denovo48	0.10458435	7.96E-05	1.28E-02
denovo162	denovo200	0.1045804	7.96E-05	1.28E-02
denovo295	denovo43	-0.10456859	7.98E-05	1.28E-02
denovo182	denovo530	-0.10456255	7.99E-05	1.28E-02
denovo18	denovo7275	0.10455418	8.00E-05	1.28E-02
M52473	denovo142	0.1045408	8.01E-05	1.28E-02
M15586	denovo386	0.10446079	8.12E-05	1.30E-02
denovo1358	denovo95	0.10444454	8.14E-05	1.30E-02
M27719	denovo467	-0.10443192	8.15E-05	1.30E-02
M00605	M03147	0.10441745	8.17E-05	1.30E-02
M15729	M33971	-0.10441094	8.18E-05	1.30E-02
denovo138	denovo169	0.10439009	8.21E-05	1.30E-02
M33935	denovo564	-0.10437854	8.22E-05	1.31E-02
M22120	denovo328	-0.1043726	8.23E-05	1.31E-02
denovo150	denovo814	0.1043515	8.26E-05	1.31E-02
M35678	denovo1026	-0.10433999	8.27E-05	1.31E-02
denovo1050	denovo94	-0.104336	8.28E-05	1.31E-02
M01564	denovo283	-0.10432348	8.29E-05	1.31E-02
M41888	M48255	0.10431846	8.30E-05	1.31E-02
denovo1504	denovo2456	0.1043145	8.31E-05	1.31E-02
M49663	denovo388	0.10429576	8.33E-05	1.32E-02
M27710	denovo124	0.10429163	8.34E-05	1.32E-02
M15749	M36103	-0.10428895	8.34E-05	1.32E-02
denovo217	denovo463	0.10428037	8.35E-05	1.32E-02
M03141	M15749	-0.10424166	8.40E-05	1.32E-02
M40479	denovo235	-0.10424015	8.40E-05	1.32E-02
M03141	M34384	0.10423748	8.41E-05	1.33E-02
M27680	denovo875	0.10421068	8.44E-05	1.33E-02
denovo101	denovo15	0.104203	8.45E-05	1.33E-02
M01437	M33487	0.10419991	8.46E-05	1.33E-02
denovo200	denovo471	0.10418606	8.48E-05	1.33E-02
M40007	denovo106	0.10418341	8.48E-05	1.33E-02
M42079	M52413	-0.10417177	8.49E-05	1.33E-02
M01827	denovo469	-0.10415238	8.52E-05	1.34E-02
M22176	M27722	-0.1041512	8.52E-05	1.34E-02
M15500	M38116	-0.10413858	8.54E-05	1.34E-02
M01510	M42370	-0.10413103	8.55E-05	1.34E-02
denovo234	denovo564	0.1041249	8.56E-05	1.34E-02
M40007	denovo494	0.10410046	8.59E-05	1.34E-02
M38696	denovo58	-0.10408985	8.60E-05	1.35E-02
M40007	denovo743	-0.10402815	8.69E-05	1.36E-02
M32349	M35114	0.10401403	8.71E-05	1.36E-02

M00528	M15720	0.10400177	8.73E-05	1.36E-02
M33444	M36103	0.10399376	8.74E-05	1.36E-02
denovo856	denovo90	-0.10396436	8.78E-05	1.36E-02
M38116	denovo1613	-0.10395413	8.79E-05	1.37E-02
M15443	M35630	0.10387659	8.90E-05	1.38E-02
denovo2040	denovo2118	0.10387038	8.91E-05	1.38E-02
M01417	denovo983	-0.10385344	8.93E-05	1.38E-02
denovo217	denovo728	0.10382638	8.97E-05	1.39E-02
M35114	denovo449	-0.10382457	8.97E-05	1.39E-02
M37752	denovo728	-0.10381198	8.99E-05	1.39E-02
M37502	denovo222	-0.10378784	9.02E-05	1.39E-02
denovo486	denovo806	0.10376976	9.05E-05	1.39E-02
M43400	M44577	-0.10372702	9.11E-05	1.40E-02
denovo1200	denovo1494	0.10370902	9.14E-05	1.40E-02
denovo1782	denovo2911	0.10370679	9.14E-05	1.40E-02
denovo1068	denovo18	0.10367654	9.18E-05	1.41E-02
M01586	M38273	0.10365923	9.21E-05	1.41E-02
M15142	M40410	0.10363942	9.24E-05	1.41E-02
M00053	M02132	0.1036394	9.24E-05	1.41E-02
M20703	M47101	0.10361043	9.28E-05	1.42E-02
M18394	M36754	-0.10359538	9.30E-05	1.42E-02
denovo138	denovo2553	0.10356253	9.35E-05	1.43E-02
M33935	denovo814	-0.10356253	9.35E-05	1.43E-02
denovo424	denovo691	0.10353447	9.39E-05	1.43E-02
M01603	denovo235	0.10352541	9.40E-05	1.43E-02
M40700	M52453	-0.10348995	9.46E-05	1.44E-02
M27731	denovo29	0.10347808	9.47E-05	1.44E-02
denovo124	denovo82	-0.1034757	9.48E-05	1.44E-02
M40730	M44526	-0.10345737	9.50E-05	1.44E-02
M49647	denovo8	0.103432	9.54E-05	1.45E-02
M15749	M40007	0.1034208	9.56E-05	1.45E-02
M40007	denovo593	0.10341964	9.56E-05	1.45E-02
M36103	denovo1244	-0.10341085	9.57E-05	1.45E-02
M42079	denovo593	-0.10341038	9.57E-05	1.45E-02
denovo1737	denovo7275	-0.10340585	9.58E-05	1.45E-02
denovo1710	denovo1819	0.10340386	9.58E-05	1.45E-02
M27738	M36770	-0.10340233	9.59E-05	1.45E-02
denovo271	denovo464	0.10338658	9.61E-05	1.45E-02
denovo133	denovo467	0.10337397	9.63E-05	1.46E-02
M38116	M43374	-0.1033556	9.66E-05	1.46E-02
M00555	M47715	0.10333973	9.68E-05	1.46E-02
denovo1159	denovo938	-0.10333531	9.69E-05	1.46E-02
M42978	denovo74	0.10333283	9.69E-05	1.46E-02
denovo182	denovo330	0.10331916	9.71E-05	1.46E-02
M00063	M37506	0.10330558	9.73E-05	1.47E-02
M15587	M15677	-0.10329212	9.75E-05	1.47E-02
M36808	M38672	0.10328612	9.76E-05	1.47E-02
M18354	M33935	0.10327644	9.78E-05	1.47E-02
denovo256	denovo278	0.1032651	9.80E-05	1.47E-02
denovo1868	denovo91	-0.10326307	9.80E-05	1.47E-02

denovo733	denovo98	0.10324782	9.82E-05	1.48E-02
M02342	M37752	-0.10324679	9.82E-05	1.48E-02
denovo1064	denovo1710	-0.10322964	9.85E-05	1.48E-02
M15745	denovo471	-0.10322519	9.86E-05	1.48E-02
M43507	denovo4811	0.10321682	9.87E-05	1.48E-02
M01603	M18335	0.10321516	9.87E-05	1.48E-02
M35718	M53215	0.10315148	9.97E-05	1.49E-02
M34424	denovo43	-0.10314488	9.98E-05	1.49E-02
M31539	denovo1737	0.10313938	9.99E-05	1.49E-02
denovo19804	denovo414	0.10312375	1.00E-04	1.50E-02
M21127	M41515	0.10312049	1.00E-04	1.50E-02
denovo856	denovo86	0.10310475	1.00E-04	1.50E-02
denovo1155	denovo414	0.10307847	1.01E-04	1.50E-02
M31530	M48433	0.10307155	1.01E-04	1.50E-02
M00542	M39788	0.10306564	1.01E-04	1.51E-02
denovo1200	denovo351	-0.10302933	1.02E-04	1.51E-02
denovo364	denovo469	0.10297634	1.02E-04	1.52E-02
M18319	M43249	0.10295334	1.03E-04	1.52E-02
M43449	denovo40	-0.10294165	1.03E-04	1.53E-02
M48255	denovo414	-0.10292751	1.03E-04	1.53E-02
denovo1031	denovo77	-0.10291846	1.03E-04	1.53E-02
M22842	M35101	-0.10289454	1.04E-04	1.53E-02
M00512	denovo124	0.1028692	1.04E-04	1.54E-02
M34399	denovo1	0.10286672	1.04E-04	1.54E-02
M37431	denovo138	-0.10286414	1.04E-04	1.54E-02
M00541	M45434	-0.10283619	1.05E-04	1.54E-02
M00396	M39626	0.10281627	1.05E-04	1.55E-02
M33971	M52307	-0.10279131	1.05E-04	1.55E-02
M43449	denovo38	-0.1027846	1.06E-04	1.55E-02
M43412	denovo581	0.10278131	1.06E-04	1.55E-02
denovo1396	denovo461	0.10270712	1.07E-04	1.57E-02
denovo1539	denovo581	0.10270695	1.07E-04	1.57E-02
M32455	denovo486	-0.10269944	1.07E-04	1.57E-02
M22842	M46740	0.10268772	1.07E-04	1.57E-02
M01587	M33950	0.10268302	1.07E-04	1.57E-02
M00604	M35136	0.10267564	1.07E-04	1.57E-02
M45970	M48857	0.10267394	1.07E-04	1.57E-02
denovo414	denovo463	-0.10265838	1.08E-04	1.58E-02
M01827	M37070	0.10265086	1.08E-04	1.58E-02
M18354	M21127	-0.10263915	1.08E-04	1.58E-02
M00608	denovo445	-0.10262689	1.08E-04	1.58E-02
denovo29	denovo98	-0.10260462	1.09E-04	1.59E-02
M01512	M46225	-0.102591	1.09E-04	1.59E-02
M02150	denovo190	-0.10259005	1.09E-04	1.59E-02
M40007	denovo652	-0.10252265	1.10E-04	1.60E-02
denovo111	denovo788	0.10251623	1.10E-04	1.60E-02
denovo252	denovo39	0.10251543	1.10E-04	1.60E-02
denovo328	denovo57	-0.10251332	1.10E-04	1.60E-02
M01586	M39788	0.10251064	1.10E-04	1.60E-02
M15142	M27719	-0.10249927	1.10E-04	1.60E-02

M45434	denovo130	0.10249485	1.10E-04	1.60E-02
M00575	M42370	-0.10248647	1.11E-04	1.61E-02
M43507	M43807	0.10245138	1.11E-04	1.61E-02
M01510	M46619	0.10245111	1.11E-04	1.61E-02
M00528	M52282	0.10242488	1.12E-04	1.62E-02
denovo256	denovo915	-0.10239908	1.12E-04	1.62E-02
denovo40	denovo936	0.10237305	1.13E-04	1.63E-02
denovo350	denovo916	-0.10235738	1.13E-04	1.63E-02
denovo13	denovo364	0.10235439	1.13E-04	1.63E-02
denovo2006	denovo40	0.10234598	1.13E-04	1.63E-02
denovo217	denovo330	0.10234038	1.13E-04	1.63E-02
M45986	denovo22	-0.10229689	1.14E-04	1.64E-02
M40700	denovo632	0.10229379	1.14E-04	1.64E-02
denovo231	denovo388	0.10227935	1.14E-04	1.64E-02
M36749	M48114	0.10227333	1.14E-04	1.64E-02
denovo801	denovo813	0.1022708	1.14E-04	1.64E-02
M27673	denovo77	0.10226082	1.15E-04	1.65E-02
denovo1082	denovo386	-0.10224854	1.15E-04	1.65E-02
denovo1	denovo3	0.10221079	1.15E-04	1.65E-02
denovo121	denovo351	-0.10219317	1.16E-04	1.66E-02
denovo361	denovo724	0.10218988	1.16E-04	1.66E-02
denovo449	denovo819	0.10218044	1.16E-04	1.66E-02
M32349	denovo194	-0.10217267	1.16E-04	1.66E-02
M43026	denovo705	-0.10216039	1.16E-04	1.66E-02
M22120	M43374	-0.10212929	1.17E-04	1.67E-02
denovo242	denovo936	0.10208955	1.18E-04	1.68E-02
denovo237	denovo372	0.10207785	1.18E-04	1.68E-02
M36770	denovo1027	-0.10206576	1.18E-04	1.68E-02
denovo66	denovo91	-0.10203295	1.19E-04	1.69E-02
M36751	M48455	0.10200109	1.19E-04	1.69E-02
denovo37	denovo819	-0.10198811	1.19E-04	1.70E-02
M01564	M31891	0.10197177	1.20E-04	1.70E-02
M40481	M40730	0.10196103	1.20E-04	1.70E-02
M35651	denovo471	-0.10188682	1.21E-04	1.71E-02
denovo162	denovo343	0.10188029	1.21E-04	1.72E-02
M32352	denovo194	-0.10186475	1.22E-04	1.72E-02
denovo43	denovo58	-0.1018577	1.22E-04	1.72E-02
denovo129	denovo1504	0.10185272	1.22E-04	1.72E-02
M35651	M36713	0.10184385	1.22E-04	1.72E-02
denovo10623	denovo6588	0.10182836	1.22E-04	1.73E-02
denovo835	denovo98	-0.1018057	1.23E-04	1.73E-02
M15135	M52473	0.10180187	1.23E-04	1.73E-02
M17805	M46619	0.10179982	1.23E-04	1.73E-02
M21158	denovo10545	-0.10177814	1.23E-04	1.73E-02
M43412	denovo938	-0.10176537	1.24E-04	1.74E-02
M48433	denovo77	0.1017648	1.24E-04	1.74E-02
M48114	denovo486	0.10176431	1.24E-04	1.74E-02
denovo364	denovo58	-0.10174283	1.24E-04	1.74E-02
denovo234	denovo8442	-0.10173311	1.24E-04	1.74E-02
denovo856	denovo884	-0.10171538	1.25E-04	1.75E-02

denovo5306	denovo6053	-0.10170684	1.25E-04	1.75E-02
M18349	denovo565	0.10170131	1.25E-04	1.75E-02
denovo361	denovo97	0.10170014	1.25E-04	1.75E-02
M32350	denovo1159	0.10169525	1.25E-04	1.75E-02
M48141	M53237	0.10168085	1.25E-04	1.75E-02
denovo1085	denovo15	0.10167496	1.25E-04	1.75E-02
M52340	denovo2553	-0.10166664	1.26E-04	1.76E-02
M46225	denovo821	0.10162709	1.26E-04	1.76E-02
M40007	denovo724	0.10160732	1.27E-04	1.77E-02
denovo225	denovo328	0.10159365	1.27E-04	1.77E-02
M22138	denovo1581	0.10157708	1.27E-04	1.77E-02
M01651	denovo19804	-0.10156608	1.28E-04	1.77E-02
denovo1737	denovo1980	0.1015478	1.28E-04	1.78E-02
M02132	M40452	0.10153948	1.28E-04	1.78E-02
denovo632	denovo916	-0.1015032	1.29E-04	1.79E-02
M01417	M34424	-0.10145793	1.30E-04	1.80E-02
M01417	denovo329	-0.10145115	1.30E-04	1.80E-02
M01494	M22118	0.10142645	1.30E-04	1.80E-02
M32390	M33959	0.10142362	1.30E-04	1.80E-02
denovo1581	denovo916	0.10141503	1.31E-04	1.80E-02
M17747	M38125	0.10141431	1.31E-04	1.80E-02
M15749	M38116	0.10140534	1.31E-04	1.81E-02
denovo6588	denovo819	-0.10140183	1.31E-04	1.81E-02
M00055	denovo182	-0.1013994	1.31E-04	1.81E-02
denovo565	denovo850	0.10137898	1.31E-04	1.81E-02
M01444	M48195	-0.10136282	1.32E-04	1.81E-02
M12142	denovo464	0.10135953	1.32E-04	1.81E-02
M15500	denovo4811	-0.10133222	1.32E-04	1.82E-02
denovo1159	denovo835	-0.10132736	1.32E-04	1.82E-02
M43374	denovo17	0.10132563	1.32E-04	1.82E-02
denovo27	denovo271	-0.1013191	1.32E-04	1.82E-02
denovo1027	denovo824	0.10131709	1.33E-04	1.82E-02
M00575	M20758	0.10129408	1.33E-04	1.83E-02
M40007	denovo103	-0.10129137	1.33E-04	1.83E-02
denovo1050	denovo10545	-0.10128371	1.33E-04	1.83E-02
denovo464	denovo705	0.10126108	1.34E-04	1.83E-02
denovo1236	denovo5306	0.10124109	1.34E-04	1.84E-02
M01585	M01591	0.10123192	1.34E-04	1.84E-02
M40700	denovo234	0.10122589	1.34E-04	1.84E-02
M53231	denovo59	0.10120297	1.35E-04	1.84E-02
M02734	M34457	0.10120293	1.35E-04	1.84E-02
M21169	M43231	0.10119584	1.35E-04	1.85E-02
M06146	M48885	-0.10117376	1.35E-04	1.85E-02
denovo69	denovo94	-0.1011511	1.36E-04	1.85E-02
denovo465	denovo52	-0.10113267	1.36E-04	1.86E-02
M01505	M22185	0.10113041	1.36E-04	1.86E-02
M21134	denovo42	0.10112301	1.37E-04	1.86E-02
denovo2456	denovo351	0.10109239	1.37E-04	1.87E-02
denovo464	denovo8383	0.10107432	1.38E-04	1.87E-02
denovo564	denovo743	0.10105895	1.38E-04	1.87E-02

M00443	M00607	0.10104087	1.38E-04	1.88E-02
M40406	M48433	-0.10102453	1.39E-04	1.88E-02
denovo1244	denovo6069	0.10101831	1.39E-04	1.88E-02
M39994	M40008	0.10101313	1.39E-04	1.88E-02
denovo1713	denovo45	-0.10100504	1.39E-04	1.88E-02
denovo142	denovo494	0.10098809	1.39E-04	1.89E-02
M15716	M38293	0.10095541	1.40E-04	1.89E-02
denovo1613	denovo830	0.10095336	1.40E-04	1.89E-02
M32620	denovo593	0.10094952	1.40E-04	1.89E-02
M43449	denovo806	-0.10094541	1.40E-04	1.89E-02
M37076	denovo230	-0.10091804	1.41E-04	1.90E-02
denovo281	denovo526	0.10087921	1.42E-04	1.91E-02
M00527	denovo906	-0.10087647	1.42E-04	1.91E-02
M36770	denovo17	-0.10085147	1.42E-04	1.91E-02
M01444	denovo1155	-0.10083685	1.43E-04	1.92E-02
M42978	denovo95	-0.10082488	1.43E-04	1.92E-02
denovo1027	denovo875	0.10081017	1.43E-04	1.92E-02
M47089	denovo71	-0.10077637	1.44E-04	1.93E-02
denovo1159	denovo614	0.10077153	1.44E-04	1.93E-02
M37069	denovo15	-0.10077051	1.44E-04	1.93E-02
denovo38	denovo6	0.10076308	1.44E-04	1.93E-02
denovo162	denovo875	-0.10076161	1.44E-04	1.93E-02
denovo8401	denovo96	-0.10075529	1.44E-04	1.93E-02
M31539	denovo83	-0.10073442	1.45E-04	1.94E-02
M15122	M46799	0.10073158	1.45E-04	1.94E-02
denovo1271	denovo915	0.10068807	1.46E-04	1.94E-02
denovo120	denovo234	0.10068761	1.46E-04	1.94E-02
denovo69	denovo923	0.10068192	1.46E-04	1.95E-02
M41515	denovo593	-0.10066245	1.47E-04	1.95E-02
denovo281	denovo821	-0.10065222	1.47E-04	1.95E-02
denovo6069	denovo6591	0.10064478	1.47E-04	1.95E-02
M33444	denovo3	0.10064303	1.47E-04	1.95E-02
M01498	denovo103	0.10062138	1.47E-04	1.96E-02
denovo1868	denovo830	-0.10061339	1.48E-04	1.96E-02
M33939	M40452	0.10060493	1.48E-04	1.96E-02
denovo1358	denovo806	-0.1005992	1.48E-04	1.96E-02
denovo1068	denovo7	-0.10059137	1.48E-04	1.96E-02
M01416	M36747	-0.10058398	1.48E-04	1.97E-02
denovo1710	denovo8383	0.10058287	1.48E-04	1.97E-02
M32352	M34404	-0.10057687	1.48E-04	1.97E-02
M52282	denovo1082	0.10056887	1.49E-04	1.97E-02
denovo2006	denovo2040	0.10056392	1.49E-04	1.97E-02
M38625	denovo57	-0.10055282	1.49E-04	1.97E-02
denovo705	denovo83	-0.10049644	1.50E-04	1.98E-02
M43507	denovo69	0.1004914	1.50E-04	1.98E-02
denovo1398	denovo217	-0.10048979	1.50E-04	1.99E-02
M35892	M40452	-0.10046445	1.51E-04	1.99E-02
denovo611	denovo826	0.10045673	1.51E-04	1.99E-02
M00587	denovo1290	0.10041623	1.52E-04	2.00E-02
M40475	M43028	0.10041515	1.52E-04	2.00E-02

denovo1154	denovo27	0.10040151	1.52E-04	2.00E-02
M00396	M15716	-0.10039673	1.53E-04	2.01E-02
M18467	M32415	0.10038986	1.53E-04	2.01E-02
denovo16	denovo565	-0.10038678	1.53E-04	2.01E-02
denovo200	denovo73	0.10038559	1.53E-04	2.01E-02
denovo814	denovo96	0.1003669	1.53E-04	2.01E-02
M01444	denovo1713	-0.10032749	1.54E-04	2.02E-02
M22177	M47101	0.10032728	1.54E-04	2.02E-02
M27719	denovo821	0.10029297	1.55E-04	2.03E-02
denovo190	denovo37	0.10028022	1.55E-04	2.03E-02
denovo328	denovo39	0.10023962	1.56E-04	2.04E-02
M46142	denovo813	0.1002323	1.56E-04	2.04E-02
M32388	M38399	-0.10021595	1.57E-04	2.05E-02
denovo278	denovo336	-0.10018382	1.58E-04	2.05E-02
M40007	denovo2390	0.1001754	1.58E-04	2.05E-02
denovo1333	denovo728	0.10013269	1.59E-04	2.06E-02
M01510	denovo162	0.1000954	1.60E-04	2.07E-02
M00542	M27680	0.10008266	1.60E-04	2.08E-02
M20703	denovo231	0.10007493	1.60E-04	2.08E-02
denovo66	denovo884	0.10006791	1.60E-04	2.08E-02
M42978	denovo2	0.10006556	1.60E-04	2.08E-02
M18374	M35879	0.10006431	1.60E-04	2.08E-02
M44526	denovo231	0.09997093	1.63E-04	2.10E-02
M39626	M43507	0.09997068	1.63E-04	2.10E-02
M27718	M32401	0.09996925	1.63E-04	2.10E-02
M01510	M33935	0.09996292	1.63E-04	2.10E-02
denovo1082	denovo486	-0.09993428	1.64E-04	2.11E-02
M37069	denovo414	-0.09992919	1.64E-04	2.11E-02
M00554	M01123	-0.09991421	1.64E-04	2.11E-02
M32349	denovo10643	0.09991417	1.64E-04	2.11E-02
M18292	M37506	-0.09989967	1.65E-04	2.12E-02
M33939	M36751	0.09989832	1.65E-04	2.12E-02
denovo1085	denovo916	0.09984617	1.66E-04	2.13E-02
denovo121	denovo564	-0.09981893	1.67E-04	2.14E-02
denovo377	denovo824	0.09981467	1.67E-04	2.14E-02
denovo343	denovo564	-0.09980938	1.67E-04	2.14E-02
M01437	M41888	0.09980299	1.67E-04	2.14E-02
M15765	M32197	-0.09979275	1.67E-04	2.14E-02
M45970	denovo1026	-0.09977351	1.68E-04	2.15E-02
M37506	M37752	-0.09976195	1.68E-04	2.15E-02
M43249	denovo1082	-0.0997533	1.68E-04	2.15E-02
denovo1159	denovo728	-0.09974729	1.68E-04	2.15E-02
M00512	M00528	0.09973997	1.69E-04	2.15E-02
denovo2	denovo55	-0.09968553	1.70E-04	2.17E-02
denovo830	denovo91	-0.09967204	1.70E-04	2.17E-02
M31555	denovo83	0.09966387	1.71E-04	2.17E-02
M00514	M32352	0.09964998	1.71E-04	2.17E-02
M43026	M52473	0.0996315	1.71E-04	2.18E-02
denovo37	denovo52	0.09962926	1.71E-04	2.18E-02
denovo1050	denovo824	-0.0996167	1.72E-04	2.18E-02

denovo55	denovo58	0.09960565	1.72E-04	2.18E-02
denovo564	denovo824	0.09959578	1.72E-04	2.19E-02
denovo102	denovo7	0.09959318	1.72E-04	2.19E-02
M35101	denovo94	0.09956026	1.73E-04	2.19E-02
M43412	denovo377	-0.09955033	1.74E-04	2.20E-02
denovo235	denovo99	0.09954621	1.74E-04	2.20E-02
M38276	M39587	-0.09951486	1.74E-04	2.21E-02
M01416	M46142	0.09950054	1.75E-04	2.21E-02
M00527	denovo328	0.09948667	1.75E-04	2.21E-02
M33422	M44872	0.09948315	1.75E-04	2.21E-02
M00055	denovo124	-0.09947314	1.76E-04	2.22E-02
M41515	M46142	-0.0994627	1.76E-04	2.22E-02
M43847	M48141	0.09942736	1.77E-04	2.23E-02
M38399	denovo22	-0.09941031	1.77E-04	2.23E-02
denovo129	denovo386	-0.09940928	1.77E-04	2.23E-02
M18319	M40730	0.09939394	1.78E-04	2.23E-02
M21158	denovo856	-0.09938484	1.78E-04	2.24E-02
M00531	M35892	-0.09938327	1.78E-04	2.24E-02
denovo2390	denovo743	0.09932991	1.79E-04	2.25E-02
M01827	M43249	0.0993255	1.80E-04	2.25E-02
M06146	M27680	0.0993098	1.80E-04	2.25E-02
M05341	M27673	0.09930538	1.80E-04	2.25E-02
M02137	M20676	0.09930228	1.80E-04	2.26E-02
denovo458	denovo71	-0.09930142	1.80E-04	2.26E-02
M00053	M00056	0.09928924	1.80E-04	2.26E-02
M32306	denovo852	-0.09927498	1.81E-04	2.26E-02
M00537	denovo463	-0.09927322	1.81E-04	2.26E-02
denovo5306	denovo8401	0.09926236	1.81E-04	2.26E-02
M01494	M18335	0.09924525	1.82E-04	2.27E-02
M15122	M31539	-0.0992	1.83E-04	2.28E-02
denovo463	denovo74	0.099189	1.83E-04	2.28E-02
denovo1182	denovo27	-0.09918317	1.83E-04	2.28E-02
M15716	M48340	-0.09918162	1.83E-04	2.28E-02
denovo801	denovo826	0.09917061	1.84E-04	2.29E-02
M01868	M43231	0.09916891	1.84E-04	2.29E-02
denovo400	denovo494	0.09916214	1.84E-04	2.29E-02
denovo10643	denovo235	-0.09915591	1.84E-04	2.29E-02
denovo6	denovo96	0.09913786	1.85E-04	2.29E-02
denovo2136	denovo2911	0.09910785	1.85E-04	2.30E-02
M38749	denovo6069	0.09907878	1.86E-04	2.31E-02
denovo114	denovo40	0.09906442	1.87E-04	2.31E-02
M34399	denovo6053	0.0990572	1.87E-04	2.31E-02
M43231	denovo386	0.09905704	1.87E-04	2.31E-02
denovo364	denovo5037	0.09904522	1.87E-04	2.32E-02
M03141	denovo29	0.09904261	1.87E-04	2.32E-02
denovo1200	denovo1396	0.09903839	1.87E-04	2.32E-02
denovo133	denovo90	0.09903034	1.88E-04	2.32E-02
denovo1358	denovo1494	0.09901038	1.88E-04	2.32E-02
M01573	M35136	0.09900296	1.88E-04	2.33E-02
M21134	M27718	-0.09899336	1.89E-04	2.33E-02

denovo362	denovo564	0.09897866	1.89E-04	2.33E-02
denovo1980	denovo736	0.09895546	1.90E-04	2.34E-02
denovo230	denovo652	-0.09894848	1.90E-04	2.34E-02
M18335	M20676	0.09892649	1.91E-04	2.34E-02
M43847	M48857	0.0989184	1.91E-04	2.35E-02
denovo40	denovo86	0.09890686	1.91E-04	2.35E-02
M34384	M49663	0.09890514	1.91E-04	2.35E-02
denovo364	denovo814	0.09890457	1.91E-04	2.35E-02
denovo150	denovo162	-0.09890103	1.91E-04	2.35E-02
M37069	denovo614	-0.09888223	1.92E-04	2.36E-02
denovo106	denovo82	-0.09887747	1.92E-04	2.36E-02
denovo225	denovo330	0.09886752	1.92E-04	2.36E-02
denovo403	denovo806	0.09885777	1.93E-04	2.36E-02
M15667	M45986	-0.09885737	1.93E-04	2.36E-02
M01114	M46336	0.09885323	1.93E-04	2.36E-02
M15142	denovo217	-0.09884567	1.93E-04	2.36E-02
denovo1031	denovo5037	-0.09884323	1.93E-04	2.36E-02
M21158	M48153	0.09883846	1.93E-04	2.37E-02
M32350	M35651	0.09882614	1.94E-04	2.37E-02
denovo1290	denovo850	0.09882435	1.94E-04	2.37E-02
M22185	M33942	0.09881996	1.94E-04	2.37E-02
denovo222	denovo84	-0.09881399	1.94E-04	2.37E-02
denovo15	denovo2136	0.09878517	1.95E-04	2.38E-02
denovo486	denovo94	0.09877778	1.95E-04	2.38E-02
denovo1031	denovo1490	-0.09877176	1.95E-04	2.38E-02
M54723	denovo835	-0.09877101	1.95E-04	2.38E-02
M02342	denovo1494	-0.09875447	1.96E-04	2.39E-02
denovo77	denovo824	-0.09874619	1.96E-04	2.39E-02
M52307	denovo614	-0.0987414	1.96E-04	2.39E-02
M39626	denovo819	0.09873555	1.96E-04	2.39E-02
M32349	denovo29	-0.09872627	1.96E-04	2.39E-02
denovo743	denovo801	0.09864953	1.99E-04	2.41E-02
M39626	denovo124	0.09864577	1.99E-04	2.41E-02
M33943	denovo850	0.09863901	1.99E-04	2.41E-02
denovo724	denovo94	-0.09862654	1.99E-04	2.42E-02
M31555	denovo42	0.09856749	2.01E-04	2.43E-02
M48141	denovo1200	0.09855658	2.02E-04	2.43E-02
M01505	denovo2040	-0.09853818	2.02E-04	2.44E-02
M40173	denovo581	-0.09851764	2.03E-04	2.44E-02
M22177	M35101	-0.0985071	2.03E-04	2.45E-02
M47101	M52282	0.09849042	2.04E-04	2.45E-02
M33939	M39788	-0.09848574	2.04E-04	2.45E-02
M40700	denovo916	-0.09846803	2.04E-04	2.46E-02
denovo17	denovo724	-0.09846251	2.04E-04	2.46E-02
M33447	M47123	0.09845324	2.05E-04	2.46E-02
M20691	M52938	-0.09842805	2.05E-04	2.47E-02
M00396	M38696	0.09842329	2.06E-04	2.47E-02
denovo113	denovo1539	-0.09841823	2.06E-04	2.47E-02
denovo133	denovo82	-0.09841524	2.06E-04	2.47E-02
denovo329	denovo522	-0.09841383	2.06E-04	2.47E-02

M17895	denovo8383	0.09840717	2.06E-04	2.47E-02
M32388	denovo351	-0.09840464	2.06E-04	2.47E-02
denovo111	denovo819	0.09839228	2.07E-04	2.48E-02
M34387	denovo835	-0.09838909	2.07E-04	2.48E-02
M01444	M37431	0.09837664	2.07E-04	2.48E-02
M01494	denovo565	-0.09834828	2.08E-04	2.49E-02
denovo1237	denovo564	-0.09830825	2.09E-04	2.50E-02
M20691	denovo1290	-0.09828906	2.10E-04	2.50E-02
M34396	M42446	0.09827979	2.10E-04	2.50E-02
denovo281	denovo8	0.09826739	2.10E-04	2.51E-02
M00060	M01649	0.09823779	2.11E-04	2.51E-02
denovo222	denovo256	0.09822889	2.12E-04	2.52E-02
denovo705	denovo916	-0.09822466	2.12E-04	2.52E-02
denovo162	denovo852	0.09822041	2.12E-04	2.52E-02
M34387	denovo124	0.09821098	2.12E-04	2.52E-02
denovo1064	denovo821	0.09821023	2.12E-04	2.52E-02
M01512	M37458	0.09820747	2.12E-04	2.52E-02
M38183	denovo464	-0.09819615	2.13E-04	2.53E-02
denovo736	denovo814	0.09818414	2.13E-04	2.53E-02
M00528	M52281	0.09816393	2.14E-04	2.53E-02
denovo283	denovo59	0.09816368	2.14E-04	2.53E-02
M43530	denovo526	0.0981615	2.14E-04	2.53E-02
M20691	denovo242	-0.09813927	2.15E-04	2.54E-02
M35678	denovo2	-0.0981329	2.15E-04	2.54E-02
denovo1710	denovo593	0.09811545	2.15E-04	2.55E-02
M31532	M43028	-0.0981082	2.16E-04	2.55E-02
denovo138	denovo824	-0.09810559	2.16E-04	2.55E-02
M01444	denovo388	0.09809589	2.16E-04	2.55E-02
M36808	M37496	0.09808462	2.16E-04	2.55E-02
denovo22	denovo84	0.09807907	2.16E-04	2.56E-02
denovo66	denovo8	0.09807575	2.17E-04	2.56E-02
M01124	M46740	-0.09806526	2.17E-04	2.56E-02
M00485	denovo95	0.09805108	2.17E-04	2.56E-02
denovo39	denovo99	-0.09804895	2.17E-04	2.56E-02
M17805	M32504	0.09804153	2.18E-04	2.56E-02
M37443	M46142	-0.09801885	2.18E-04	2.57E-02
M46960	denovo821	0.09801544	2.19E-04	2.57E-02
M38125	M45986	0.09799008	2.19E-04	2.58E-02
M15586	denovo46	-0.09798895	2.19E-04	2.58E-02
M15716	M15720	0.09798486	2.20E-04	2.58E-02
M48114	denovo73	-0.0979714	2.20E-04	2.58E-02
M01495	denovo133	0.09796079	2.20E-04	2.59E-02
denovo120	denovo182	0.09795262	2.21E-04	2.59E-02
denovo10643	denovo182	0.0979165	2.22E-04	2.60E-02
denovo1819	denovo884	0.09790343	2.22E-04	2.60E-02
M33939	M34404	-0.09789222	2.23E-04	2.60E-02
denovo2006	denovo581	0.09788308	2.23E-04	2.61E-02
denovo1819	denovo2456	0.09788112	2.23E-04	2.61E-02
M15747	M37458	0.09784014	2.24E-04	2.62E-02
M46336	denovo111	-0.09783741	2.24E-04	2.62E-02

M27680	denovo1782	-0.09782612	2.25E-04	2.62E-02
denovo1398	denovo806	-0.09780804	2.25E-04	2.62E-02
M27718	M33943	0.09780198	2.26E-04	2.63E-02
M18335	M21169	0.0977984	2.26E-04	2.63E-02
M27680	M48885	0.09777157	2.27E-04	2.63E-02
M00512	M52307	0.09774467	2.28E-04	2.64E-02
denovo11	denovo242	-0.09773756	2.28E-04	2.64E-02
M34404	M35114	-0.09772871	2.28E-04	2.65E-02
denovo2553	denovo494	-0.09772791	2.28E-04	2.65E-02
denovo494	denovo705	0.09772761	2.28E-04	2.65E-02
M00057	M15720	0.09771711	2.28E-04	2.65E-02
denovo231	denovo351	0.09771534	2.29E-04	2.65E-02
M53237	denovo403	-0.09771156	2.29E-04	2.65E-02
M33971	denovo271	0.09770515	2.29E-04	2.65E-02
denovo1490	denovo565	-0.09769599	2.29E-04	2.65E-02
denovo0	denovo52	-0.09767734	2.30E-04	2.66E-02
M00058	M01898	0.09767591	2.30E-04	2.66E-02
denovo1713	denovo526	0.09767494	2.30E-04	2.66E-02
M43449	M52938	0.09766994	2.30E-04	2.66E-02
denovo162	denovo8442	-0.09764253	2.31E-04	2.67E-02
denovo2	denovo295	0.09762446	2.32E-04	2.67E-02
M00541	M52307	0.09762252	2.32E-04	2.67E-02
M48114	M53215	-0.09760861	2.32E-04	2.68E-02
M32350	M47101	0.097582	2.33E-04	2.68E-02
M21127	M38696	0.0975778	2.33E-04	2.68E-02
M18374	M43807	-0.09757734	2.33E-04	2.68E-02
denovo1271	denovo728	-0.09756272	2.34E-04	2.69E-02
M32388	denovo281	0.09756027	2.34E-04	2.69E-02
M21158	denovo364	0.09755466	2.34E-04	2.69E-02
M39583	denovo445	-0.09754865	2.34E-04	2.69E-02
denovo826	denovo875	0.09754766	2.34E-04	2.69E-02
M32984	M43249	0.09751993	2.35E-04	2.70E-02
denovo169	denovo25	-0.09748351	2.37E-04	2.71E-02
denovo66	denovo74	0.09748109	2.37E-04	2.71E-02
M15677	denovo1012	0.09745915	2.37E-04	2.72E-02
denovo103	denovo705	0.09745899	2.37E-04	2.72E-02
denovo1159	denovo153	-0.09744995	2.38E-04	2.72E-02
M03141	M38696	0.09744165	2.38E-04	2.72E-02
M00514	M00554	0.09743332	2.38E-04	2.72E-02
denovo19804	denovo37	0.09743065	2.38E-04	2.72E-02
M33961	M52461	0.09742423	2.39E-04	2.72E-02
denovo1868	denovo82	0.09739353	2.40E-04	2.73E-02
M47123	denovo1271	-0.09737877	2.40E-04	2.74E-02
M36738	denovo2040	0.09737331	2.40E-04	2.74E-02
denovo10643	denovo6053	0.09737231	2.40E-04	2.74E-02
M01417	denovo806	0.09735736	2.41E-04	2.74E-02
M35678	M48152	0.09735029	2.41E-04	2.74E-02
M27513	M49647	-0.09734979	2.41E-04	2.74E-02
denovo113	denovo278	-0.09734687	2.41E-04	2.74E-02
denovo31	denovo58	0.09733844	2.42E-04	2.75E-02

M37069	M52282	0.09732456	2.42E-04	2.75E-02
denovo343	denovo826	0.09730467	2.43E-04	2.76E-02
M03141	denovo1205	0.09730356	2.43E-04	2.76E-02
M45434	denovo835	-0.09727705	2.44E-04	2.76E-02
M48141	denovo239	0.09726629	2.44E-04	2.77E-02
denovo2390	denovo59	0.09726509	2.44E-04	2.77E-02
M33997	M52233	0.09725712	2.45E-04	2.77E-02
M27680	denovo1026	-0.09725448	2.45E-04	2.77E-02
M33013	denovo46	0.09724358	2.45E-04	2.77E-02
M42489	denovo1494	-0.09723836	2.45E-04	2.77E-02
M15958	M27513	0.09721485	2.46E-04	2.78E-02
M33953	denovo824	0.09721341	2.46E-04	2.78E-02
denovo213	denovo464	-0.09721099	2.46E-04	2.78E-02
M00055	M03155	0.09719731	2.47E-04	2.78E-02
M33935	denovo1551	0.09719544	2.47E-04	2.78E-02
M46142	denovo1613	-0.09717701	2.48E-04	2.79E-02
M27719	denovo923	0.09717187	2.48E-04	2.79E-02
denovo1311	denovo814	-0.09715877	2.48E-04	2.79E-02
denovo2006	denovo84	0.09715748	2.48E-04	2.79E-02
M40007	denovo124	0.09712233	2.50E-04	2.80E-02
M17769	denovo471	-0.09710512	2.50E-04	2.81E-02
M15716	M36808	-0.09708876	2.51E-04	2.81E-02
M18349	M43493	0.09708487	2.51E-04	2.81E-02
denovo2040	denovo39	0.09708441	2.51E-04	2.81E-02
denovo278	denovo3	0.09707381	2.51E-04	2.82E-02
M21127	M36751	-0.0970721	2.51E-04	2.82E-02
M00594	M41515	0.09707069	2.51E-04	2.82E-02
denovo461	denovo97	-0.09706285	2.52E-04	2.82E-02
denovo361	denovo8383	0.0970567	2.52E-04	2.82E-02
denovo1200	denovo743	-0.09705319	2.52E-04	2.82E-02
denovo213	denovo465	0.09701477	2.54E-04	2.83E-02
M37431	M48428	-0.09699798	2.54E-04	2.84E-02
M35651	denovo10623	0.09697966	2.55E-04	2.84E-02
denovo19804	denovo66	0.09697455	2.55E-04	2.84E-02
M15500	denovo7275	0.09696387	2.55E-04	2.85E-02
denovo1050	denovo1737	0.09695161	2.56E-04	2.85E-02
M15749	M36770	-0.09693984	2.56E-04	2.85E-02
denovo328	denovo814	0.09693697	2.56E-04	2.85E-02
M01868	M46336	0.09692635	2.57E-04	2.86E-02
M33997	M52473	0.09691067	2.57E-04	2.86E-02
M37431	denovo1244	-0.09689405	2.58E-04	2.86E-02
M15677	M48114	-0.09688771	2.58E-04	2.87E-02
M33939	M37506	0.09688519	2.58E-04	2.87E-02
M01586	M27680	0.09686579	2.59E-04	2.87E-02
M15772	denovo144	-0.09686279	2.59E-04	2.87E-02
M34035	M48455	0.09685905	2.59E-04	2.87E-02
M00514	M01573	0.09685852	2.59E-04	2.87E-02
M48141	denovo8442	0.09685602	2.60E-04	2.87E-02
denovo464	denovo99	-0.09683622	2.60E-04	2.88E-02
M02132	M15681	-0.09682943	2.61E-04	2.88E-02

denovo1980	denovo362	0.09681356	2.61E-04	2.89E-02
denovo2118	denovo2911	-0.09680437	2.62E-04	2.89E-02
M01504	M01508	0.09680062	2.62E-04	2.89E-02
M02342	M48433	-0.09679518	2.62E-04	2.89E-02
M17895	denovo237	0.0967786	2.63E-04	2.89E-02
denovo2040	denovo471	-0.09676802	2.63E-04	2.90E-02
denovo18	denovo1980	-0.09676185	2.63E-04	2.90E-02
denovo564	denovo99	0.09675914	2.63E-04	2.90E-02
M01416	M34035	0.09675517	2.63E-04	2.90E-02
denovo106	denovo403	-0.0967511	2.64E-04	2.90E-02
M40479	denovo736	0.09675038	2.64E-04	2.90E-02
M06146	denovo1980	-0.09674617	2.64E-04	2.90E-02
M33953	M36751	0.09674614	2.64E-04	2.90E-02
M36751	M42971	-0.09672342	2.65E-04	2.91E-02
M32504	M36754	-0.09670871	2.65E-04	2.91E-02
M48114	denovo1155	-0.09670431	2.65E-04	2.91E-02
M01638	denovo1064	0.09670253	2.65E-04	2.92E-02
M43258	denovo43	-0.09669134	2.66E-04	2.92E-02
denovo5037	denovo526	0.09667837	2.66E-04	2.92E-02
denovo10623	denovo350	0.09667219	2.67E-04	2.92E-02
M01512	denovo328	-0.09666518	2.67E-04	2.93E-02
M39271	M43530	-0.09664279	2.68E-04	2.93E-02
M06104	M37069	-0.09664219	2.68E-04	2.93E-02
M00396	M35101	0.09663958	2.68E-04	2.93E-02
M52473	denovo190	0.09663891	2.68E-04	2.93E-02
denovo1031	denovo6591	0.09663491	2.68E-04	2.93E-02
denovo182	denovo234	0.09662736	2.68E-04	2.94E-02
denovo564	denovo813	0.09661713	2.69E-04	2.94E-02
denovo1539	denovo486	-0.09661433	2.69E-04	2.94E-02
M15778	M42489	-0.09659303	2.70E-04	2.94E-02
M52307	denovo1494	0.09658958	2.70E-04	2.95E-02
denovo336	denovo614	0.09658902	2.70E-04	2.95E-02
denovo38	denovo614	-0.09656013	2.71E-04	2.95E-02
denovo2456	denovo4811	0.09655091	2.71E-04	2.96E-02
denovo11	denovo362	-0.09654872	2.72E-04	2.96E-02
M27414	denovo2390	-0.09654477	2.72E-04	2.96E-02
M00528	M43847	-0.09654331	2.72E-04	2.96E-02
M01561	M15730	0.09652268	2.73E-04	2.96E-02
M15500	denovo826	-0.09651582	2.73E-04	2.97E-02
denovo217	denovo593	-0.09649639	2.74E-04	2.97E-02
M43026	M48149	0.09647574	2.75E-04	2.98E-02
M35101	M38399	0.09647093	2.75E-04	2.98E-02
denovo1082	denovo121	0.09646732	2.75E-04	2.98E-02
M35678	denovo361	-0.09645677	2.75E-04	2.98E-02
M15730	M38665	-0.09644525	2.76E-04	2.99E-02
denovo10643	denovo465	-0.09641701	2.77E-04	2.99E-02
M43374	denovo1782	0.09640151	2.78E-04	3.00E-02
denovo469	denovo705	-0.09638796	2.78E-04	3.00E-02
M18374	M37443	0.0963784	2.78E-04	3.01E-02
M40173	denovo494	0.09636456	2.79E-04	3.01E-02

M35678	M43412	0.09635794	2.79E-04	3.01E-02
denovo733	denovo923	0.0963578	2.79E-04	3.01E-02
M22842	M32346	0.09635706	2.79E-04	3.01E-02
M46336	denovo403	0.09633805	2.80E-04	3.02E-02
denovo486	denovo908	-0.09633025	2.80E-04	3.02E-02
M37076	denovo1271	0.09631	2.81E-04	3.03E-02
M18354	denovo103	0.09630091	2.82E-04	3.03E-02
M33959	M35107	0.09629961	2.82E-04	3.03E-02
M35651	denovo105	0.09629154	2.82E-04	3.03E-02
M40700	denovo1027	-0.09628557	2.82E-04	3.03E-02
M01483	M21177	-0.09628179	2.82E-04	3.03E-02
denovo1082	denovo114	-0.09627769	2.83E-04	3.04E-02
M21177	denovo111	-0.09626647	2.83E-04	3.04E-02
M00542	denovo120	0.09626448	2.83E-04	3.04E-02
denovo124	denovo2006	0.09624213	2.84E-04	3.05E-02
M15587	denovo4811	-0.0962204	2.85E-04	3.05E-02
M31532	denovo1868	0.09620393	2.86E-04	3.06E-02
denovo1504	denovo522	-0.09619191	2.86E-04	3.06E-02
denovo239	denovo58	0.09617594	2.87E-04	3.07E-02
M43258	denovo45	-0.09617061	2.87E-04	3.07E-02
M06104	denovo27	0.09612961	2.89E-04	3.08E-02
M40084	M46336	0.09612526	2.89E-04	3.08E-02
denovo350	denovo593	-0.09612427	2.89E-04	3.08E-02
M40479	denovo38	-0.09611388	2.89E-04	3.09E-02
denovo48	denovo71	0.09611049	2.90E-04	3.09E-02
M35630	M39587	-0.09610036	2.90E-04	3.09E-02
M15142	M48434	-0.0960863	2.91E-04	3.09E-02
denovo213	denovo230	0.09608122	2.91E-04	3.10E-02
M01643	denovo17	0.09607793	2.91E-04	3.10E-02
denovo1737	denovo29	0.09605382	2.92E-04	3.10E-02
denovo1031	denovo231	0.09604783	2.92E-04	3.11E-02
M27447	denovo814	0.09604636	2.92E-04	3.11E-02
M27680	denovo120	-0.09604599	2.92E-04	3.11E-02
denovo234	denovo813	-0.09603633	2.93E-04	3.11E-02
denovo1613	denovo58	0.09602636	2.93E-04	3.11E-02
denovo38	denovo71	-0.09600657	2.94E-04	3.12E-02
denovo530	denovo906	-0.09599047	2.95E-04	3.12E-02
M40475	M47231	0.09597784	2.95E-04	3.13E-02
M36738	denovo424	0.09595469	2.96E-04	3.14E-02
denovo106	denovo372	-0.09595075	2.96E-04	3.14E-02
M43023	M47391	0.09593382	2.97E-04	3.14E-02
M46225	denovo83	0.0959312	2.97E-04	3.14E-02
M00607	M01603	0.09592293	2.98E-04	3.15E-02
denovo1819	denovo759	0.09592221	2.98E-04	3.15E-02
M15958	denovo230	0.09591023	2.98E-04	3.15E-02
M32349	denovo38	-0.0958995	2.99E-04	3.15E-02
denovo1182	denovo150	-0.09588779	2.99E-04	3.16E-02
denovo350	denovo691	0.09588405	2.99E-04	3.16E-02
M33959	M38672	-0.09587073	3.00E-04	3.16E-02
M38165	denovo632	-0.09586148	3.00E-04	3.16E-02

M36754	denovo96	-0.09585109	3.01E-04	3.17E-02
M31932	M43023	0.09584674	3.01E-04	3.17E-02
denovo1271	denovo2118	0.09582648	3.02E-04	3.18E-02
M15745	denovo691	-0.0958039	3.03E-04	3.18E-02
M35892	M38276	0.09579223	3.03E-04	3.19E-02
M41515	M43412	0.09573815	3.06E-04	3.20E-02
denovo144	denovo565	-0.09570296	3.07E-04	3.21E-02
M32388	M34404	0.09567907	3.08E-04	3.22E-02
M36747	M52282	0.09566512	3.09E-04	3.23E-02
M18292	M43807	-0.09564789	3.10E-04	3.23E-02
M15772	denovo162	-0.09562164	3.11E-04	3.24E-02
denovo1398	denovo1980	-0.09559747	3.12E-04	3.25E-02
M01437	M02125	0.09559698	3.12E-04	3.25E-02
M38276	denovo814	0.09559129	3.12E-04	3.25E-02
M15500	denovo830	0.09558309	3.13E-04	3.25E-02
M40730	denovo8442	-0.09556786	3.14E-04	3.26E-02
M43258	denovo281	-0.09555196	3.14E-04	3.26E-02
M27719	M35718	-0.09554882	3.14E-04	3.26E-02
denovo106	denovo826	0.09554784	3.14E-04	3.26E-02
M02137	M02734	0.09552843	3.15E-04	3.27E-02
M52340	denovo621	-0.09551476	3.16E-04	3.27E-02
M15747	M45434	-0.09549801	3.17E-04	3.28E-02
M37752	denovo8401	-0.09549326	3.17E-04	3.28E-02
M18362	M38395	-0.09549169	3.17E-04	3.28E-02
M32492	M33968	-0.09548335	3.17E-04	3.28E-02
M15778	denovo2040	0.09548023	3.18E-04	3.29E-02
M46537	M52294	0.09547001	3.18E-04	3.29E-02
denovo200	denovo983	0.09546411	3.18E-04	3.29E-02
M01105	M52938	0.09545352	3.19E-04	3.29E-02
M27513	denovo6053	-0.09544496	3.19E-04	3.30E-02
denovo1613	denovo806	-0.09544036	3.19E-04	3.30E-02
denovo19804	denovo217	0.09543861	3.20E-04	3.30E-02
denovo494	denovo806	0.09542192	3.20E-04	3.30E-02
M36754	denovo31	0.09542064	3.20E-04	3.30E-02
M22177	M46960	0.09540279	3.21E-04	3.31E-02
M46410	denovo52	-0.09540032	3.21E-04	3.31E-02
denovo39	denovo60	0.09536829	3.23E-04	3.32E-02
M01564	M48434	0.09536509	3.23E-04	3.32E-02
M36713	denovo217	-0.09536191	3.23E-04	3.32E-02
M46336	denovo278	0.09536141	3.23E-04	3.32E-02
denovo18	denovo22	-0.09534138	3.24E-04	3.33E-02
denovo222	denovo2390	-0.0953368	3.24E-04	3.33E-02
denovo19804	denovo372	0.09531999	3.25E-04	3.34E-02
M34387	denovo467	0.09531768	3.25E-04	3.34E-02
denovo1200	denovo35	-0.09531518	3.25E-04	3.34E-02
M49663	denovo256	-0.09530364	3.26E-04	3.34E-02
denovo1868	denovo813	0.09526884	3.27E-04	3.35E-02
M35101	denovo400	0.09526641	3.28E-04	3.35E-02
M35114	M40700	0.0952641	3.28E-04	3.36E-02
denovo16	denovo73	0.09526313	3.28E-04	3.36E-02

denovo343	denovo99	0.09526013	3.28E-04	3.36E-02
M31539	M33959	0.09525845	3.28E-04	3.36E-02
M48428	denovo105	-0.09525635	3.28E-04	3.36E-02
denovo564	denovo759	-0.09524827	3.28E-04	3.36E-02
M15720	M22120	-0.09524558	3.29E-04	3.36E-02
M20676	M38109	0.09524009	3.29E-04	3.36E-02
M15765	denovo16	0.09522975	3.29E-04	3.37E-02
M43400	denovo362	0.09521718	3.30E-04	3.37E-02
M38696	denovo99	-0.09518495	3.32E-04	3.38E-02
M37069	denovo150	0.09517754	3.32E-04	3.38E-02
M01586	denovo22	-0.09517003	3.32E-04	3.39E-02
denovo330	denovo465	0.09516568	3.32E-04	3.39E-02
denovo144	denovo6588	-0.09515279	3.33E-04	3.39E-02
M22138	M38696	-0.09515194	3.33E-04	3.39E-02
denovo1237	denovo2136	0.09514168	3.34E-04	3.39E-02
denovo467	denovo835	0.09513091	3.34E-04	3.40E-02
M39583	denovo74	-0.09512865	3.34E-04	3.40E-02
denovo103	denovo71	0.0951156	3.35E-04	3.40E-02
M01124	M33013	-0.09511506	3.35E-04	3.40E-02
denovo1461	denovo581	0.09509815	3.36E-04	3.41E-02
M34424	M46336	0.09509795	3.36E-04	3.41E-02
denovo256	denovo813	0.09507208	3.37E-04	3.42E-02
M33946	M37506	-0.0950665	3.37E-04	3.42E-02
M22120	denovo330	-0.09506597	3.37E-04	3.42E-02
M00568	M42978	0.09505271	3.38E-04	3.42E-02
M22176	M33946	0.09504945	3.38E-04	3.42E-02
M15587	M31539	0.09503503	3.39E-04	3.43E-02
M27738	M35892	0.09503178	3.39E-04	3.43E-02
M01638	denovo281	0.09503141	3.39E-04	3.43E-02
denovo1159	denovo1737	-0.09500363	3.40E-04	3.44E-02
M38125	denovo222	0.09499923	3.41E-04	3.44E-02
M05086	M46960	0.09499614	3.41E-04	3.44E-02
denovo1461	denovo99	-0.09499204	3.41E-04	3.44E-02
M03141	denovo114	-0.0949846	3.41E-04	3.45E-02
denovo117	denovo1551	0.09497541	3.42E-04	3.45E-02
M01125	M01301	0.09496705	3.42E-04	3.45E-02
denovo114	denovo1461	0.0949629	3.42E-04	3.45E-02
denovo494	denovo759	-0.09495209	3.43E-04	3.46E-02
M00054	M06104	-0.0949495	3.43E-04	3.46E-02
M01417	M01638	0.0949367	3.44E-04	3.46E-02
M40045	M48189	0.09493188	3.44E-04	3.46E-02
M33422	M52278	0.09491949	3.45E-04	3.47E-02
M00555	denovo242	0.09489324	3.46E-04	3.48E-02
M32306	denovo463	-0.09489146	3.46E-04	3.48E-02
M34404	denovo194	-0.09489081	3.46E-04	3.48E-02
M32306	M33935	0.09488971	3.46E-04	3.48E-02
M31555	M33447	-0.09487976	3.47E-04	3.48E-02
M18394	denovo850	0.09485891	3.48E-04	3.49E-02
M00542	M48141	0.09484985	3.48E-04	3.49E-02
denovo256	denovo486	0.09484706	3.48E-04	3.49E-02

M15681	M32455	-0.09483552	3.49E-04	3.49E-02
M42489	denovo830	0.09483475	3.49E-04	3.49E-02
M33961	M34396	0.09482848	3.49E-04	3.50E-02
denovo743	denovo938	0.09482812	3.49E-04	3.50E-02
denovo278	denovo463	-0.09482275	3.49E-04	3.50E-02
M27680	M32401	0.09476718	3.52E-04	3.52E-02
M40479	denovo1713	-0.09475199	3.53E-04	3.52E-02
M43374	denovo213	0.09475145	3.53E-04	3.52E-02
M52473	denovo162	-0.09474862	3.53E-04	3.52E-02
denovo43	denovo86	0.0947435	3.53E-04	3.53E-02
M05086	denovo69	-0.09473907	3.54E-04	3.53E-02
M00604	M03147	0.0947293	3.54E-04	3.53E-02
M01603	M43807	-0.09472073	3.55E-04	3.53E-02
denovo1555	denovo414	0.09469909	3.56E-04	3.54E-02
M12142	M37076	0.09469579	3.56E-04	3.54E-02
M37069	denovo336	0.0946953	3.56E-04	3.54E-02
M18319	M22120	0.09467866	3.57E-04	3.55E-02
denovo182	denovo759	0.09467314	3.57E-04	3.55E-02
denovo190	denovo8401	-0.0946568	3.58E-04	3.56E-02
denovo138	denovo82	0.09465326	3.58E-04	3.56E-02
denovo464	denovo5037	-0.09463613	3.59E-04	3.56E-02
M03155	denovo94	-0.09463398	3.59E-04	3.56E-02
M18362	M32388	0.09457583	3.62E-04	3.58E-02
denovo3	denovo6069	0.09456856	3.62E-04	3.59E-02
M05086	M36713	-0.09453616	3.64E-04	3.60E-02
M00485	M02829	-0.09453127	3.64E-04	3.60E-02
M01498	M52634	0.09452324	3.65E-04	3.60E-02
M05086	M47101	0.09451434	3.65E-04	3.61E-02
M03147	M38696	-0.09451376	3.65E-04	3.61E-02
M38273	M38696	0.09451267	3.65E-04	3.61E-02
M01561	denovo231	0.09450817	3.66E-04	3.61E-02
denovo256	denovo74	-0.09450577	3.66E-04	3.61E-02
M37501	M48434	0.09449598	3.66E-04	3.61E-02
M38395	denovo105	0.09447923	3.67E-04	3.62E-02
denovo458	denovo906	-0.09446362	3.68E-04	3.62E-02
denovo1333	denovo461	-0.09445197	3.69E-04	3.63E-02
M15681	denovo7	0.0944327	3.70E-04	3.64E-02
denovo4811	denovo55	0.09442265	3.70E-04	3.64E-02
M37496	denovo1205	0.09440748	3.71E-04	3.64E-02
M01124	denovo1	-0.0944065	3.71E-04	3.64E-02
M05086	denovo98	0.09440151	3.71E-04	3.65E-02
M21134	M33943	0.09438785	3.72E-04	3.65E-02
M00531	denovo386	-0.09437815	3.73E-04	3.65E-02
denovo1551	denovo231	0.09437772	3.73E-04	3.65E-02
M15581	M40481	0.09437741	3.73E-04	3.65E-02
denovo2	denovo465	0.09434967	3.74E-04	3.66E-02
M22842	denovo1980	0.09434282	3.74E-04	3.67E-02
denovo113	denovo66	0.09433914	3.75E-04	3.67E-02
M52340	denovo463	0.09433655	3.75E-04	3.67E-02
denovo6591	denovo998	0.09431795	3.76E-04	3.68E-02

M38273	M38665	-0.09430452	3.77E-04	3.68E-02
M06104	denovo96	-0.09430037	3.77E-04	3.68E-02
M15772	denovo10545	0.09430016	3.77E-04	3.68E-02
M33935	denovo998	-0.09428745	3.77E-04	3.69E-02
M37752	denovo295	0.0942859	3.78E-04	3.69E-02
M38665	M38696	0.09425528	3.79E-04	3.70E-02
M00594	M33471	0.09425361	3.79E-04	3.70E-02
M00587	M40007	-0.09424417	3.80E-04	3.70E-02
M43231	denovo522	0.09423787	3.80E-04	3.70E-02
M15778	M38273	0.09423397	3.80E-04	3.71E-02
denovo0	denovo2006	0.09421818	3.81E-04	3.71E-02
M35879	denovo94	0.09421812	3.81E-04	3.71E-02
denovo213	denovo830	-0.09421229	3.82E-04	3.71E-02
denovo129	denovo733	-0.09421219	3.82E-04	3.71E-02
M34424	denovo1539	0.09419938	3.82E-04	3.72E-02
denovo1026	denovo330	-0.09417725	3.84E-04	3.73E-02
M38276	denovo42	0.09416603	3.84E-04	3.73E-02
M15506	M46225	-0.09415838	3.85E-04	3.73E-02
M00063	M52413	0.0941487	3.85E-04	3.74E-02
M48434	denovo31	-0.09413002	3.86E-04	3.74E-02
M33943	denovo821	-0.09411728	3.87E-04	3.75E-02
denovo1581	denovo736	-0.09410832	3.87E-04	3.75E-02
M37443	denovo364	-0.09410668	3.87E-04	3.75E-02
M21169	M33471	0.09410523	3.88E-04	3.75E-02
M22118	denovo2118	0.09410056	3.88E-04	3.75E-02
M33444	denovo471	-0.09409779	3.88E-04	3.75E-02
M15135	M32350	0.09409383	3.88E-04	3.76E-02
M36754	M38109	0.09408373	3.89E-04	3.76E-02
M18292	M52938	0.09407116	3.89E-04	3.76E-02
denovo162	denovo234	0.0940653	3.90E-04	3.77E-02
M00594	denovo1490	-0.09404553	3.91E-04	3.77E-02
M34396	M49663	-0.09403787	3.91E-04	3.78E-02
M36749	denovo336	-0.09402089	3.92E-04	3.78E-02
M33442	M47391	0.0940177	3.92E-04	3.78E-02
denovo526	denovo97	-0.093999	3.93E-04	3.79E-02
denovo278	denovo295	0.09399192	3.94E-04	3.79E-02
M35651	denovo1551	-0.09399058	3.94E-04	3.79E-02
M20676	M20758	0.09398649	3.94E-04	3.79E-02
M15500	denovo5037	-0.09397434	3.95E-04	3.80E-02
M52473	denovo1980	-0.09396903	3.95E-04	3.80E-02
denovo826	denovo852	0.09396199	3.96E-04	3.80E-02
denovo48	denovo724	0.09396119	3.96E-04	3.80E-02
M01558	denovo736	0.09395806	3.96E-04	3.80E-02
denovo231	denovo494	-0.0939438	3.97E-04	3.81E-02
denovo222	denovo237	0.09393674	3.97E-04	3.81E-02
M18319	M36751	-0.0939135	3.98E-04	3.82E-02
M01498	M46410	0.09391082	3.98E-04	3.82E-02
denovo463	denovo724	0.09390996	3.99E-04	3.82E-02
M40730	denovo4811	-0.0938936	3.99E-04	3.83E-02
M00575	M45970	0.09388583	4.00E-04	3.83E-02

denovo237	denovo96	-0.0938728	4.01E-04	3.84E-02
M32388	denovo1026	0.09387138	4.01E-04	3.84E-02
M01586	M34384	-0.09385755	4.02E-04	3.84E-02
M43449	denovo97	-0.09385167	4.02E-04	3.84E-02
M36713	denovo494	0.09384316	4.02E-04	3.85E-02
M36747	M38116	0.09382378	4.03E-04	3.85E-02
denovo11	denovo5037	-0.09373001	4.09E-04	3.89E-02
denovo403	denovo884	-0.09371758	4.10E-04	3.89E-02
denovo133	denovo361	0.09368692	4.11E-04	3.90E-02
M43027	denovo377	0.09368451	4.12E-04	3.90E-02
denovo458	denovo6591	0.09363183	4.15E-04	3.92E-02
denovo1271	denovo142	-0.09363169	4.15E-04	3.92E-02
M01564	M32350	-0.09363077	4.15E-04	3.92E-02
M27680	denovo237	0.09362037	4.15E-04	3.93E-02
M37752	M38399	0.09361793	4.16E-04	3.93E-02
M15765	denovo621	-0.09360947	4.16E-04	3.93E-02
denovo1868	denovo200	0.09360593	4.16E-04	3.93E-02
M45434	M47715	0.09360051	4.17E-04	3.94E-02
M01114	M46740	0.09359726	4.17E-04	3.94E-02
denovo3	denovo728	-0.09359271	4.17E-04	3.94E-02
denovo4811	denovo6053	0.09357029	4.18E-04	3.95E-02
denovo1157	denovo4811	0.09356107	4.19E-04	3.95E-02
M20691	M52604	0.093558	4.19E-04	3.95E-02
M46336	M52938	-0.09355261	4.19E-04	3.95E-02
M05086	M43258	0.09354502	4.20E-04	3.96E-02
denovo1050	denovo1082	-0.09354255	4.20E-04	3.96E-02
denovo222	denovo45	-0.09354127	4.20E-04	3.96E-02
M46225	denovo239	0.09353915	4.20E-04	3.96E-02
denovo1311	denovo1713	-0.0935285	4.21E-04	3.96E-02
M00528	M00594	-0.09351639	4.22E-04	3.97E-02
M32349	M42489	-0.09351089	4.22E-04	3.97E-02
M02125	denovo471	-0.09349214	4.23E-04	3.98E-02
M39788	denovo16	0.09348434	4.24E-04	3.98E-02
M02829	M15772	0.09347264	4.24E-04	3.98E-02
M39788	M40452	0.09346835	4.25E-04	3.98E-02
M00396	denovo467	0.09346262	4.25E-04	3.99E-02
M01603	M34387	-0.09344853	4.26E-04	3.99E-02
M01572	M45428	0.09343817	4.26E-04	4.00E-02
M49647	denovo400	-0.09343744	4.26E-04	4.00E-02
M43374	denovo99	-0.0934349	4.27E-04	4.00E-02
M18292	M52282	0.09342769	4.27E-04	4.00E-02
M01643	M31532	-0.09342431	4.27E-04	4.00E-02
M15745	M15872	0.09341094	4.28E-04	4.01E-02
M27513	M33949	0.09340947	4.28E-04	4.01E-02
denovo1710	denovo788	0.09340861	4.28E-04	4.01E-02
M00575	M42971	0.09340643	4.28E-04	4.01E-02
M32401	denovo388	0.09340547	4.28E-04	4.01E-02
M52278	denovo256	-0.09340455	4.28E-04	4.01E-02
M40452	denovo923	-0.09340131	4.29E-04	4.01E-02
M01558	M35678	0.09339308	4.29E-04	4.01E-02

M00059	M43493	-0.09339304	4.29E-04	4.01E-02
denovo111	denovo142	-0.09337305	4.30E-04	4.02E-02
M47101	denovo350	0.09337011	4.31E-04	4.02E-02
M36747	denovo111	0.09336843	4.31E-04	4.02E-02
denovo117	denovo73	0.09335648	4.31E-04	4.03E-02
denovo133	denovo19804	-0.09335068	4.32E-04	4.03E-02
denovo130	denovo234	0.09335051	4.32E-04	4.03E-02
M38183	denovo84	0.0933193	4.34E-04	4.04E-02
M01638	M02150	0.09331721	4.34E-04	4.04E-02
denovo234	denovo998	-0.09330307	4.35E-04	4.05E-02
denovo1485	denovo3	-0.09330055	4.35E-04	4.05E-02
M17805	denovo611	-0.09329353	4.35E-04	4.05E-02
denovo17	denovo830	0.09328943	4.36E-04	4.05E-02
M43507	denovo1155	-0.09328272	4.36E-04	4.05E-02
denovo1154	denovo938	0.09326285	4.37E-04	4.06E-02
M32350	M32984	-0.09325705	4.38E-04	4.06E-02
denovo217	denovo230	-0.09324689	4.38E-04	4.07E-02
M43493	denovo66	-0.09323915	4.39E-04	4.07E-02
denovo22	denovo362	0.09323384	4.39E-04	4.07E-02
M48885	denovo875	-0.09320762	4.41E-04	4.08E-02
denovo372	denovo4811	0.09320729	4.41E-04	4.08E-02
M20758	M33939	0.09319472	4.41E-04	4.09E-02
M00542	M20691	0.09318983	4.42E-04	4.09E-02
M46225	denovo6588	-0.09318252	4.42E-04	4.09E-02
M43449	denovo1012	0.09317494	4.43E-04	4.09E-02
M35630	M40007	0.09317244	4.43E-04	4.10E-02
M15778	denovo130	-0.09317189	4.43E-04	4.10E-02
denovo15	denovo29	0.0931658	4.43E-04	4.10E-02
M43412	denovo565	-0.09316025	4.44E-04	4.10E-02
M41515	denovo8	-0.09314686	4.44E-04	4.11E-02
M01284	M33946	0.09314279	4.45E-04	4.11E-02
denovo2553	denovo736	-0.09313401	4.45E-04	4.11E-02
denovo2911	denovo621	-0.09312101	4.46E-04	4.11E-02
denovo1333	denovo283	-0.09311902	4.46E-04	4.12E-02
denovo27	denovo361	-0.09310996	4.47E-04	4.12E-02
M05341	M15500	0.09309881	4.48E-04	4.12E-02
M36749	M38276	-0.09309675	4.48E-04	4.12E-02
M40481	M52294	0.09308052	4.49E-04	4.13E-02
M35107	denovo234	-0.09306119	4.50E-04	4.14E-02
denovo48	denovo765	-0.09306084	4.50E-04	4.14E-02
denovo1082	denovo621	0.09306071	4.50E-04	4.14E-02
denovo458	denovo486	0.09305718	4.50E-04	4.14E-02
denovo765	denovo813	0.09302261	4.52E-04	4.15E-02
M27738	denovo43	0.09300238	4.54E-04	4.16E-02
M41515	denovo114	-0.09296075	4.56E-04	4.18E-02
M40045	M42079	-0.09296006	4.56E-04	4.18E-02
denovo424	denovo824	0.0929352	4.58E-04	4.18E-02
M52340	denovo1555	0.09293099	4.58E-04	4.19E-02
M01512	denovo213	0.09292413	4.59E-04	4.19E-02
M43506	M45428	0.09291761	4.59E-04	4.19E-02

denovo1782	denovo852	-0.09290468	4.60E-04	4.20E-02
M01638	M48857	0.09289033	4.61E-04	4.20E-02
M05086	M33943	0.0928804	4.62E-04	4.21E-02
denovo350	denovo82	0.09287835	4.62E-04	4.21E-02
denovo388	denovo6591	0.09287262	4.62E-04	4.21E-02
M00575	denovo414	-0.09285304	4.63E-04	4.22E-02
M06146	denovo362	0.09284471	4.64E-04	4.22E-02
M37501	denovo463	-0.09284413	4.64E-04	4.22E-02
denovo1490	denovo463	-0.09284038	4.64E-04	4.22E-02
M01510	M35879	0.09283587	4.65E-04	4.22E-02
M40700	denovo6591	-0.09282726	4.65E-04	4.23E-02
M37076	M39587	0.09282685	4.65E-04	4.23E-02
M38109	denovo530	-0.09282266	4.65E-04	4.23E-02
M27680	denovo614	-0.09281595	4.66E-04	4.23E-02
M15745	M20703	0.0928132	4.66E-04	4.23E-02
M40007	denovo530	0.09279588	4.67E-04	4.24E-02
M45970	M49663	-0.09278154	4.68E-04	4.24E-02
M15142	M37501	-0.0927787	4.68E-04	4.24E-02
M54676	denovo614	-0.09277535	4.69E-04	4.25E-02
M43507	denovo17	-0.09277356	4.69E-04	4.25E-02
M01638	M47715	0.09277167	4.69E-04	4.25E-02
denovo153	denovo328	0.09276278	4.69E-04	4.25E-02
M01527	M46410	0.092753	4.70E-04	4.25E-02
M43507	denovo169	0.09274673	4.71E-04	4.26E-02
M40007	denovo564	0.09274645	4.71E-04	4.26E-02
M01510	denovo906	0.09273887	4.71E-04	4.26E-02
M38665	denovo1398	-0.09273527	4.71E-04	4.26E-02
denovo1026	denovo526	-0.09273438	4.71E-04	4.26E-02
M22138	M27719	0.09272334	4.72E-04	4.27E-02
denovo42	denovo486	0.09270204	4.74E-04	4.27E-02
denovo10545	denovo765	-0.09269995	4.74E-04	4.27E-02
M43412	denovo231	0.0926994	4.74E-04	4.27E-02
M32349	denovo1244	-0.0926771	4.75E-04	4.28E-02
M15587	M38696	-0.09264786	4.77E-04	4.29E-02
M00573	M38399	0.09264346	4.77E-04	4.30E-02
M03141	denovo1819	0.09264183	4.78E-04	4.30E-02
denovo11	denovo486	-0.09262764	4.79E-04	4.30E-02
M33939	denovo632	-0.09262371	4.79E-04	4.30E-02
M00055	M27680	0.09262357	4.79E-04	4.30E-02
denovo1539	denovo386	0.09260813	4.80E-04	4.31E-02
denovo1200	denovo2390	-0.09259781	4.81E-04	4.31E-02
denovo69	denovo852	0.09257961	4.82E-04	4.32E-02
M31891	denovo386	-0.09257178	4.82E-04	4.32E-02
M38665	denovo826	-0.09257063	4.82E-04	4.32E-02
denovo875	denovo936	0.0925517	4.84E-04	4.33E-02
denovo29	denovo806	-0.09255035	4.84E-04	4.33E-02
M32350	denovo96	0.09254984	4.84E-04	4.33E-02
M48885	denovo7275	0.09252855	4.85E-04	4.34E-02
denovo2	denovo200	0.09252398	4.86E-04	4.34E-02
M36738	denovo95	-0.09251734	4.86E-04	4.34E-02

M32306	M52473	-0.09249892	4.87E-04	4.35E-02
denovo7	denovo759	-0.09249885	4.87E-04	4.35E-02
M38665	denovo733	0.09249745	4.87E-04	4.35E-02
M18394	denovo252	0.09249474	4.88E-04	4.35E-02
M43530	denovo86	0.09249397	4.88E-04	4.35E-02
M15581	M27731	-0.09249071	4.88E-04	4.35E-02
M15667	denovo414	0.09248864	4.88E-04	4.35E-02
M03155	denovo242	0.09247965	4.89E-04	4.36E-02
M34399	M34424	0.09247387	4.89E-04	4.36E-02
denovo2118	denovo564	0.09247315	4.89E-04	4.36E-02
denovo1782	denovo74	-0.09247219	4.89E-04	4.36E-02
denovo217	denovo788	-0.0924688	4.89E-04	4.36E-02
denovo10545	denovo522	0.09245925	4.90E-04	4.37E-02
denovo632	denovo728	-0.09245709	4.90E-04	4.37E-02
denovo632	denovo813	-0.09245062	4.91E-04	4.37E-02
denovo239	denovo40	-0.09243415	4.92E-04	4.38E-02
M01603	denovo733	0.09243237	4.92E-04	4.38E-02
M52282	denovo908	-0.09243195	4.92E-04	4.38E-02
M02342	denovo59	-0.09242585	4.92E-04	4.38E-02
M00512	M40173	-0.09241777	4.93E-04	4.38E-02
M43847	denovo813	0.09241413	4.93E-04	4.38E-02
M35879	denovo403	-0.09241146	4.93E-04	4.38E-02
M34387	denovo733	0.09240025	4.94E-04	4.39E-02
M48153	denovo632	-0.0923842	4.95E-04	4.39E-02
M06146	denovo830	0.09237887	4.96E-04	4.40E-02
denovo1064	denovo530	-0.09237638	4.96E-04	4.40E-02
M00485	M33942	0.09237005	4.96E-04	4.40E-02
M36738	denovo1026	0.09236511	4.97E-04	4.40E-02
M33946	M42978	-0.0923231	5.00E-04	4.42E-02
M15500	M40479	-0.09230945	5.01E-04	4.42E-02
M01498	M36808	0.09228035	5.03E-04	4.44E-02
M02137	denovo1012	-0.09226273	5.04E-04	4.44E-02
M37752	M38395	0.09225961	5.04E-04	4.44E-02
M38183	M40730	0.09223823	5.06E-04	4.45E-02
M37502	denovo1064	-0.09223094	5.06E-04	4.46E-02
M15135	M43231	0.09222383	5.07E-04	4.46E-02
M52282	denovo19804	0.09222163	5.07E-04	4.46E-02
M21158	M43027	-0.09221357	5.07E-04	4.46E-02
M34387	denovo1737	-0.09220571	5.08E-04	4.47E-02
denovo102	denovo814	-0.09220094	5.08E-04	4.47E-02
M15130	denovo530	-0.09217013	5.11E-04	4.48E-02
M00587	denovo1205	-0.09215825	5.11E-04	4.49E-02
M37506	denovo234	-0.0921525	5.12E-04	4.49E-02
denovo1782	denovo372	0.0921339	5.13E-04	4.50E-02
M00575	denovo101	0.09213194	5.13E-04	4.50E-02
denovo486	denovo90	-0.09212686	5.14E-04	4.50E-02
denovo611	denovo875	-0.09212247	5.14E-04	4.50E-02
M35114	denovo69	0.09209147	5.16E-04	4.51E-02
M38749	denovo1868	-0.09206501	5.18E-04	4.52E-02
denovo1157	denovo1539	-0.09206257	5.18E-04	4.52E-02

M52413	denovo414	-0.09206192	5.18E-04	4.52E-02
M40173	M48434	-0.09205811	5.19E-04	4.53E-02
denovo362	denovo58	-0.09205615	5.19E-04	4.53E-02
denovo120	denovo328	0.09203624	5.20E-04	4.53E-02
denovo31	denovo350	-0.09201957	5.22E-04	4.54E-02
M49647	denovo362	-0.09201641	5.22E-04	4.54E-02
M27673	denovo936	-0.09201153	5.22E-04	4.54E-02
denovo7	denovo835	0.09200049	5.23E-04	4.55E-02
M42370	denovo230	0.0919829	5.24E-04	4.56E-02
M43026	M45970	0.0919694	5.25E-04	4.56E-02
M37431	denovo1236	-0.09196904	5.25E-04	4.56E-02
M01558	denovo1333	-0.09194151	5.27E-04	4.57E-02
denovo350	denovo464	0.09192906	5.28E-04	4.58E-02
M01638	denovo98	-0.0919271	5.28E-04	4.58E-02
denovo328	denovo564	-0.09192368	5.29E-04	4.58E-02
denovo242	denovo271	-0.09192056	5.29E-04	4.58E-02
denovo231	denovo736	0.09190392	5.30E-04	4.59E-02
M01651	denovo74	0.09190179	5.30E-04	4.59E-02
M02132	denovo239	0.09189707	5.31E-04	4.59E-02
M33934	M43231	0.09189165	5.31E-04	4.59E-02
denovo1980	denovo58	-0.09188412	5.32E-04	4.60E-02
M31530	M41374	0.09185775	5.34E-04	4.61E-02
M44526	denovo936	-0.09184753	5.34E-04	4.61E-02
denovo1271	denovo328	0.09184532	5.34E-04	4.61E-02
denovo611	denovo998	-0.0918435	5.35E-04	4.61E-02
denovo2040	denovo66	0.09184214	5.35E-04	4.61E-02
denovo329	denovo414	-0.09183901	5.35E-04	4.61E-02
denovo124	denovo486	0.09182887	5.36E-04	4.62E-02
denovo1	denovo530	0.09182745	5.36E-04	4.62E-02
M01303	denovo1581	0.09182625	5.36E-04	4.62E-02
M01510	M40700	-0.09182607	5.36E-04	4.62E-02
denovo113	denovo237	0.09182536	5.36E-04	4.62E-02
M27513	M37076	-0.09181955	5.36E-04	4.62E-02
M31532	M33487	0.09181939	5.36E-04	4.62E-02
denovo111	denovo200	0.09180903	5.37E-04	4.63E-02
denovo424	denovo983	0.09180539	5.37E-04	4.63E-02
M42971	denovo142	-0.09180239	5.38E-04	4.63E-02
M00542	denovo621	0.09179954	5.38E-04	4.63E-02
M33961	denovo1064	-0.09177916	5.39E-04	4.64E-02
M01643	M40730	-0.09177242	5.40E-04	4.64E-02
M00512	denovo424	0.09177039	5.40E-04	4.64E-02
denovo593	denovo86	-0.09176439	5.41E-04	4.65E-02
M21158	denovo217	-0.09176331	5.41E-04	4.65E-02
denovo1539	denovo225	-0.09176169	5.41E-04	4.65E-02
M02734	M37063	0.09175764	5.41E-04	4.65E-02
denovo461	denovo58	0.09174898	5.42E-04	4.65E-02
M15122	M21127	0.09173376	5.43E-04	4.66E-02
M06146	M15765	-0.09172856	5.43E-04	4.66E-02
denovo86	denovo906	0.09172282	5.44E-04	4.66E-02
M21127	M48141	-0.09171804	5.44E-04	4.66E-02

M17895	denovo915	0.09171078	5.45E-04	4.67E-02
denovo1490	denovo7275	-0.09169498	5.46E-04	4.67E-02
denovo1064	denovo1182	0.09169004	5.46E-04	4.68E-02
denovo464	denovo82	-0.09168161	5.47E-04	4.68E-02
M48428	M49647	-0.09165723	5.49E-04	4.69E-02
M17769	M37069	0.09165718	5.49E-04	4.69E-02
denovo106	denovo83	0.09164477	5.50E-04	4.69E-02
denovo1555	denovo875	0.09164333	5.50E-04	4.69E-02
denovo11	denovo42	0.09163993	5.50E-04	4.70E-02
M38276	M52413	-0.0916332	5.51E-04	4.70E-02
M27719	M35101	-0.09162626	5.51E-04	4.70E-02
denovo225	denovo362	-0.09162049	5.52E-04	4.70E-02
M06146	denovo6069	-0.09161767	5.52E-04	4.71E-02
denovo11	denovo46	0.09160547	5.53E-04	4.71E-02
M38665	denovo1494	-0.0916053	5.53E-04	4.71E-02
denovo144	denovo449	-0.09160226	5.53E-04	4.71E-02
denovo821	denovo852	0.09158797	5.54E-04	4.72E-02
denovo130	denovo814	-0.09157752	5.55E-04	4.72E-02
M17895	M42446	0.09157055	5.55E-04	4.72E-02
denovo225	denovo59	0.091558	5.56E-04	4.73E-02
denovo343	denovo86	0.09152548	5.59E-04	4.74E-02
M15745	denovo875	-0.09150743	5.60E-04	4.75E-02
M05086	denovo8	0.09150282	5.61E-04	4.75E-02
M01564	M34424	-0.09148574	5.62E-04	4.76E-02
M43374	denovo45	-0.09147778	5.63E-04	4.76E-02
denovo449	denovo814	0.09147743	5.63E-04	4.76E-02
denovo372	denovo90	0.09147197	5.63E-04	4.76E-02
M05086	denovo329	0.09146058	5.64E-04	4.77E-02
M01437	denovo16	0.09145165	5.65E-04	4.77E-02
denovo231	denovo765	-0.09145095	5.65E-04	4.77E-02
M27673	M38395	0.09144849	5.65E-04	4.77E-02
denovo593	denovo621	-0.09144501	5.65E-04	4.78E-02
M01552	denovo8383	-0.09144153	5.66E-04	4.78E-02
M15130	M43231	0.09143894	5.66E-04	4.78E-02
M06146	M42395	0.09142714	5.67E-04	4.78E-02
M01512	M37506	-0.09142081	5.67E-04	4.79E-02
M03155	denovo27	-0.09141983	5.67E-04	4.79E-02
denovo1581	denovo82	0.09141621	5.68E-04	4.79E-02
M01128	denovo103	0.09140177	5.69E-04	4.79E-02
denovo10623	denovo565	0.09137781	5.71E-04	4.80E-02
M32388	denovo74	0.09137305	5.71E-04	4.81E-02
M33939	M40406	-0.09131602	5.76E-04	4.83E-02
M00056	M52340	0.09131538	5.76E-04	4.83E-02
M49663	denovo113	-0.09131105	5.76E-04	4.83E-02
denovo19804	denovo530	0.09130222	5.77E-04	4.83E-02
M38672	denovo1154	0.09129792	5.77E-04	4.84E-02
M06104	denovo10643	-0.09129783	5.77E-04	4.84E-02
M15765	denovo6069	-0.09129617	5.77E-04	4.84E-02
M01586	M17895	0.09128525	5.78E-04	4.84E-02
denovo830	denovo850	0.09128157	5.78E-04	4.84E-02

denovo400	denovo728	0.09127797	5.79E-04	4.84E-02
M18292	M31539	0.09126101	5.80E-04	4.85E-02
denovo242	denovo66	0.09124991	5.81E-04	4.86E-02
M27673	denovo74	-0.09124234	5.82E-04	4.86E-02
M01564	M15729	0.09124022	5.82E-04	4.86E-02
denovo403	denovo494	-0.09123639	5.82E-04	4.86E-02
M15581	M40007	-0.09123092	5.83E-04	4.86E-02
denovo522	denovo6053	0.09122892	5.83E-04	4.86E-02
denovo1290	denovo463	0.09122331	5.83E-04	4.87E-02
denovo1182	denovo724	-0.09122273	5.83E-04	4.87E-02
M00512	denovo824	-0.0912157	5.84E-04	4.87E-02
M32418	M40410	0.09120655	5.85E-04	4.87E-02
denovo281	denovo31	-0.09119979	5.85E-04	4.88E-02
M42420	denovo386	-0.09119701	5.85E-04	4.88E-02
denovo6	denovo733	-0.09118847	5.86E-04	4.88E-02
M49647	denovo95	-0.09118107	5.87E-04	4.88E-02
M32377	M38395	0.09117135	5.87E-04	4.89E-02
denovo1494	denovo200	0.09115874	5.88E-04	4.89E-02
M03141	denovo835	0.09115663	5.89E-04	4.89E-02
M41515	denovo200	0.09115099	5.89E-04	4.90E-02
M31532	M43847	0.09113504	5.90E-04	4.90E-02
denovo691	denovo733	0.09111781	5.92E-04	4.91E-02
denovo230	denovo42	0.09111078	5.92E-04	4.91E-02
M40007	denovo194	-0.09110582	5.93E-04	4.92E-02
denovo2456	denovo759	0.09110371	5.93E-04	4.92E-02
M33935	M46225	0.09110332	5.93E-04	4.92E-02
denovo13	denovo25	0.09110077	5.93E-04	4.92E-02
M02150	denovo465	-0.09108245	5.95E-04	4.93E-02
M40007	M48434	-0.09107838	5.95E-04	4.93E-02
M33935	denovo1819	0.09107793	5.95E-04	4.93E-02
M33942	denovo13	0.09106762	5.96E-04	4.93E-02
M40007	denovo59	0.09106204	5.96E-04	4.93E-02
M15142	M36751	0.09105991	5.97E-04	4.93E-02
M01483	M45970	0.0910576	5.97E-04	4.94E-02
M06146	denovo120	-0.09103776	5.99E-04	4.94E-02
M01495	M37501	0.09103728	5.99E-04	4.94E-02
M38109	M47101	-0.09103672	5.99E-04	4.94E-02
M32415	M33587	0.09103245	5.99E-04	4.95E-02
denovo114	denovo6	0.09102861	5.99E-04	4.95E-02
M02150	M20676	-0.0910142	6.00E-04	4.95E-02
M18477	M47101	0.09099858	6.02E-04	4.96E-02
denovo1155	denovo99	0.09099845	6.02E-04	4.96E-02
denovo1333	denovo530	-0.09098276	6.03E-04	4.97E-02
denovo120	denovo486	-0.09098055	6.03E-04	4.97E-02
M06146	denovo824	-0.09097722	6.04E-04	4.97E-02
M15749	M38399	0.09097224	6.04E-04	4.97E-02
M31891	M37501	0.09096883	6.04E-04	4.97E-02
M02342	denovo743	-0.09096806	6.04E-04	4.97E-02
M15745	M43027	0.0909603	6.05E-04	4.98E-02
M36747	M48434	0.09095808	6.05E-04	4.98E-02

M52938	denovo1012	-0.09094288	6.06E-04	4.98E-02
M00527	M38276	0.09092725	6.08E-04	4.99E-02
M37458	denovo111	-0.09092592	6.08E-04	4.99E-02
denovo230	denovo852	0.09092561	6.08E-04	4.99E-02

Metabolite Label	Super pathway	
M00053	glutamine	Amino Acid
M00054	tryptophan	Amino Acid
M00055	beta-alanine	Nucleotide
M00056	cystine	Amino Acid
M00057	glutamate	Amino Acid
M00058	glycine	Amino Acid
M00059	histidine	Amino Acid
M00060	leucine	Amino Acid
M00063	cholesterol	Lipid
M00064	phenylalanine	Amino Acid
M00396	glutarate (pentanedioate)	Amino Acid
M00437	5-hydroxyindoleacetate	Amino Acid
M00443	aspartate	Amino Acid
M00485	spermidine	Amino Acid
M00512	asparagine	Amino Acid
M00513	creatinine	Amino Acid
M00514	cytidine	Nucleotide
M00527	lactate	Carbohydrate
M00528	alpha-ketoglutarate	Energy
M00531	3-hydroxy-3-methylglutarate	Lipid
M00533	2'-deoxycytidine 5'-monophosphate	Nucleotide
M00537	2-deoxyribose	Carbohydrate
M00541	4-hydroxyphenylacetate	Amino Acid
M00542	3-hydroxybutyrate (BHBA)	Lipid
M00554	adenine	Nucleotide
M00555	adenosine	Nucleotide
M00566	phenylpyruvate	Amino Acid
M00568	biotin	Cofactors And Vitamins
M00569	caffeine	Xenobiotics
M00573	cytosine	Nucleotide
M00575	arabinose	Carbohydrate
M00587	gluconate	Xenobiotics
M00594	nicotinamide	Cofactors And Vitamins
M00598	phytanate	Xenobiotics
M00601	dihydroorotate	Nucleotide
M00604	thymine	Nucleotide
M00605	uracil	Nucleotide
M00606	uridine	Nucleotide
M00607	trans-urocanate	Amino Acid
M00608	pyridoxine (Vitamin B6)	Cofactors And Vitamins
M01105	linoleate (18:2n6)	Lipid
M01107	allantoin	Nucleotide
M01110	arachidonate (20:4n6)	Lipid
M01114	deoxycholate	Lipid
M01118	arachidate (20:0)	Lipid
M01121	margarate (17:0)	Lipid
M01123	inosine	Nucleotide
M01124	myo-inositol	Lipid
M01125	isoleucine	Amino Acid

M01126	alanine	Amino Acid
M01128	lanosterol	Lipid
M01284	threonine	Amino Acid
M01299	tyrosine	Amino Acid
M01301	lysine	Amino Acid
M01302	methionine	Amino Acid
M01303	malate	Energy
M01336	palmitate (16:0)	Lipid
M01356	nonadecanoate (19:0)	Lipid
M01358	stearate (18:0)	Lipid
M01361	pentadecanoate (15:0)	Lipid
M01365	myristate (14:0)	Lipid
M01408	putrescine	Amino Acid
M01411	2'-deoxyguanosine	Nucleotide
M01412	2'-deoxyuridine	Nucleotide
M01413	3-hydroxyphenylacetate	Amino Acid
M01416	gamma-aminobutyrate (GABA)	Amino Acid
M01417	kynurenate	Amino Acid
M01418	5,6-dihydrothymine	Nucleotide
M01437	succinate	Energy
M01444	pipecolate	Amino Acid
M01471	ribose	Carbohydrate
M01483	lithocholate	Lipid
M01493	ornithine	Amino Acid
M01494	5-oxoproline	Amino Acid
M01495	saccharopine	Amino Acid
M01496	methylmalonate (MMA)	Lipid
M01498	N6,N6,N6-trimethyllysine	Amino Acid
M01500	N-acetylserotonin	Amino Acid
M01504	nicotinate	Cofactors And Vitamins
M01505	orotate	Nucleotide
M01508	pantothenate	Cofactors And Vitamins
M01510	phytosphingosine	Lipid
M01512	picolinate	Amino Acid
M01515	salicylate	Xenobiotics
M01516	sarcosine	Amino Acid
M01519	sucrose	Carbohydrate
M01527	1-methyladenine	Nucleotide
M01552	erucate (22:1n9)	Lipid
M01553	2'-deoxyadenosine	Nucleotide
M01556	3-hydroxypropanoate	Lipid
M01558	4-acetamidobutanoate	Amino Acid
M01561	alpha-tocopherol	Cofactors And Vitamins
M01563	chenodeoxycholate	Lipid
M01564	citrate	Energy
M01566	3-aminoisobutyrate	Nucleotide
M01572	glycerate	Carbohydrate
M01573	guanosine	Nucleotide
M01574	histamine	Amino Acid
M01576	dihydroxyphenylalanine (L-DOPA)	Amino Acid

M01584	methyl indole-3-acetate	Xenobiotics
M01585	N-acetylalanine	Amino Acid
M01586	N-acetylcysteine	Amino Acid
M01587	N-acetylleucine	Amino Acid
M01589	N-acetylmethionine	Amino Acid
M01591	N-acetylvaline	Amino Acid
M01594	N-carbamoylaspartate	Nucleotide
M01603	tyramine	Amino Acid
M01604	urate	Nucleotide
M01605	ursodeoxycholate	Lipid
M01638	arginine	Amino Acid
M01642	caprate (10:0)	Lipid
M01643	fumarate	Energy
M01644	heptanoate (7:0)	Lipid
M01645	laurate (12:0)	Lipid
M01648	serine	Amino Acid
M01649	valine	Amino Acid
M01651	pyridoxal	Cofactors And Vitamins
M01669	4-hydroxyphenylpyruvate	Amino Acid
M01768	carnosine	Peptide
M01806	retinol (Vitamin A)	Cofactors And Vitamins
M01827	riboflavin (Vitamin B2)	Cofactors And Vitamins
M01868	cysteine	Amino Acid
M01898	proline	Amino Acid
M01899	quinolinate	Cofactors And Vitamins
M02125	taurine	Amino Acid
M02132	citrulline	Amino Acid
M02134	flavin adenine dinucleotide (FAD)	Cofactors And Vitamins
M02137	biliverdin	Cofactors And Vitamins
M02150	pyridoxamine	Cofactors And Vitamins
M02183	thymidine	Nucleotide
M02342	serotonin	Amino Acid
M02734	gamma-glutamyltyrosine	Peptide
M02829	N-formylmethionine	Amino Acid
M02959	3'-CMP	Nucleotide
M03127	hypoxanthine	Nucleotide
M03141	betaine	Amino Acid
M03147	xanthine	Nucleotide
M03155	3-ureidopropionate	Nucleotide
M04970	anthranilate	Amino Acid
M05086	dimethylglycine	Amino Acid
M05341	thiamin (Vitamin B1)	Cofactors And Vitamins
M06104	tryptamine	Amino Acid
M06146	2-aminoadipate	Amino Acid
M12032	4-acetamidophenol	Xenobiotics
M12110	isocitrate	Energy
M12115	cinnamate	Xenobiotics
M12129	beta-hydroxyisovalerate	Amino Acid
M12142	phenethylamine	Amino Acid
M12261	taurodeoxycholate	Lipid

M15076	2'-deoxyinosine	Nucleotide
M15122	glycerol	Lipid
M15125	ciliatine (2-aminoethylphosphonate)	Xenobiotics
M15130	diaminopimelate	Xenobiotics
M15135	dipicolinate	Xenobiotics
M15136	xanthosine	Nucleotide
M15142	allo-threonine	Amino Acid
M15308	cadaverine	Amino Acid
M15336	tartarate	Xenobiotics
M15443	glucuronate	Carbohydrate
M15497	argininosuccinate	Amino Acid
M15500	carnitine	Lipid
M15506	choline	Lipid
M15581	xylose	Carbohydrate
M15586	maltose	Carbohydrate
M15587	fucose	Carbohydrate
M15650	N1-methyladenosine	Nucleotide
M15667	2-isopropylmalate	Xenobiotics
M15673	3-hydroxybenzoate	Xenobiotics
M15676	3-methyl-2-oxovalerate	Amino Acid
M15677	3-methylhistidine	Amino Acid
M15679	xanthurenate	Amino Acid
M15681	4-guanidinobutanoate	Amino Acid
M15685	5-hydroxylysine	Amino Acid
M15704	pimelate (heptanedioate)	Lipid
M15705	cystathionine	Amino Acid
M15716	imidazole lactate	Amino Acid
M15720	N-acetylglutamate	Amino Acid
M15729	tricarballylate	Energy
M15730	suberate (octanedioate)	Lipid
M15745	methylosuccinate	Amino Acid
M15747	anserine	Peptide
M15749	3-phenylpropionate (hydrocinnamate)	Amino Acid
M15765	ethylmalonate	Amino Acid
M15772	ribitol	Carbohydrate
M15778	benzoate	Xenobiotics
M15797	flavin mononucleotide (FMN)	Cofactors And Vitamins
M15872	malonate	Lipid
M15949	2'-deoxycytidine	Nucleotide
M15958	phenylacetate	Amino Acid
M15990	glycerophosphorylcholine (GPC)	Lipid
M17665	p-hydroxybenzaldehyde	Xenobiotics
M17747	sphingosine	Lipid
M17769	sphinganine	Lipid
M17772	N-acetylsphingosine	Lipid
M17774	epicatechin	Xenobiotics
M17805	dihomo-linoleate (20:2n6)	Lipid
M17895	N6-formyllysine	Amino Acid
M17945	2-hydroxystearate	Lipid
M18245	gamma-glutamylhistidine	Peptide

M18254	paraxanthine	Xenobiotics
M18280	gentisate	Amino Acid
M18292	3,4-dihydroxybenzoate	Xenobiotics
M18319	5-aminovalerate	Amino Acid
M18335	quinatate	Xenobiotics
M18349	indolelactate	Amino Acid
M18354	N-acetylmuramate	Carbohydrate
M18357	glycylvaline	Peptide
M18362	azelate (nonanedioate)	Lipid
M18369	gamma-glutamylleucine	Peptide
M18374	methionine sulfoxide	Amino Acid
M18392	theobromine	Xenobiotics
M18394	theophylline	Xenobiotics
M18467	eicosapentaenoate (EPA; 20:5n3)	Lipid
M18476	glycocholate	Lipid
M18477	glycodeoxycholate	Lipid
M18494	taurochenodeoxycholate	Lipid
M18497	taurocholate	Lipid
M19130	1,2-dipalmitoyl-GPC (16:0/16:0)	Lipid
M19263	1-palmitoyl-2-oleoyl-GPE (16:0/18:1)	Lipid
M19324	1-stearoyl-GPI (18:0)	Lipid
M20676	maleate	Lipid
M20691	diethanolamine	Xenobiotics
M20703	2,3-dimethylsuccinate	Amino Acid
M20758	galacturonate	Xenobiotics
M21046	digalacturonic acid	Xenobiotics
M21127	1-palmitoylglycerol (16:0)	Lipid
M21133	4-hydroxybenzoate	Xenobiotics
M21134	adipate	Lipid
M21151	saccharin	Xenobiotics
M21158	3-hydroxymyristate	Lipid
M21169	3-hydroxypyridine	Xenobiotics
M21177	caffeate	Xenobiotics
M21183	stigmaterol	Lipid
M21184	1-oleoylglycerol (18:1)	Lipid
M21189	apigenin	Xenobiotics
M21232	2-oleoylglycerol (18:1)	Lipid
M21300	hesperidin	Xenobiotics
M22116	4-methyl-2-oxopentanoate	Amino Acid
M22118	4-ureidobutyrate	Nucleotide
M22120	N6-dimethylallyladenine	Nucleotide
M22130	phenyllactate (PLA)	Amino Acid
M22132	alpha-hydroxyisocaproate	Amino Acid
M22138	homocitrulline	Amino Acid
M22176	cysteine s-sulfate	Amino Acid
M22177	levulinate (4-oxovalerate)	Xenobiotics
M22185	N-acetylaspartate (NAA)	Amino Acid
M22206	theanine	Xenobiotics
M22273	isocaproate	Lipid
M22842	cholate	Lipid

M27414	beta-sitosterol	Lipid
M27447	1-linoleoylglycerol (18:2)	Lipid
M27513	indoleacetate	Amino Acid
M27514	hesperetin	Xenobiotics
M27536	harmene	Xenobiotics
M27553	ergosterol	Lipid
M27665	1-methylnicotinamide	Cofactors And Vitamins
M27673	5-(2-Hydroxyethyl)-4-methylthiazole	Cofactors And Vitamins
M27680	6-hydroxynicotinate	Cofactors And Vitamins
M27710	N-acetylglycine	Amino Acid
M27718	creatine	Amino Acid
M27719	galactonate	Carbohydrate
M27722	erythrose	Carbohydrate
M27731	ribonate	Carbohydrate
M27738	threonate	Cofactors And Vitamins
M30460	1-methylhistidine	Amino Acid
M31530	threonylphenylalanine	Peptide
M31532	N-methylglutamate	Amino Acid
M31539	O-acetylhomoserine	Amino Acid
M31555	pyridoxate	Cofactors And Vitamins
M31675	2-pyrrolidinone	Xenobiotics
M31787	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (CMPF)	Lipid
M31850	butyrylglycine	Lipid
M31891	dehydrolithocholate	Lipid
M31904	7-ketodeoxycholate	Lipid
M31906	7,12-diketolithocholate	Lipid
M31912	glycolithocholate	Lipid
M31932	propionylglycine	Lipid
M31938	5-hydroxyhexanoate	Lipid
M31943	3-hydroxysebacate	Lipid
M32197	3-(4-hydroxyphenyl)lactate	Amino Acid
M32198	acetylcarnitine	Lipid
M32306	trans-4-hydroxyproline	Amino Acid
M32342	adenosine 5'-monophosphate (AMP)	Nucleotide
M32346	glycochenodeoxycholate	Lipid
M32349	4-imidazoleacetate	Amino Acid
M32350	1-methylimidazoleacetate	Amino Acid
M32352	guanine	Nucleotide
M32377	N-acetylneuraminat	Carbohydrate
M32388	dodecanedioate	Lipid
M32390	N-acetyltyrosine	Amino Acid
M32391	1,3-dimethylurate	Xenobiotics
M32398	sebacate (decanedioate)	Lipid
M32401	trigonelline (N'-methylnicotinate)	Cofactors And Vitamins
M32405	indolepropionate	Amino Acid
M32413	2-hydroxymyristate	Lipid
M32415	docosadienoate (22:2n6)	Lipid
M32418	myristoleate (14:1n5)	Lipid
M32425	dehydroisoandrosterone sulfate (DHEA-S)	Lipid
M32426	l-urobilinogen	Cofactors And Vitamins

M32445	3-methylxanthine	Xenobiotics
M32446	guanidinosuccinate	Amino Acid
M32453	daidzein	Xenobiotics
M32455	linoleamide (18:2n6)	Lipid
M32457	3-hydroxylaurate	Lipid
M32462	N-linoleoylglycine	Lipid
M32489	caproate (6:0)	Lipid
M32492	caprylate (8:0)	Lipid
M32504	docosapentaenoate (n3 DPA; 22:5n3)	Lipid
M32506	2-linoleoylglycerol (18:2)	Lipid
M32562	pregnen-diol disulfate*	Lipid
M32599	glycocholenate sulfate*	Lipid
M32619	pregn steroid monosulfate*	Lipid
M32620	glycolithocholate sulfate*	Lipid
M32807	taurocholenate sulfate*	Lipid
M32980	adrenate (22:4n6)	Lipid
M32984	N-alpha-acetylornithine	Amino Acid
M33013	nicotinamide riboside	Cofactors And Vitamins
M33021	skatol	Amino Acid
M33418	delta-tocopherol	Cofactors And Vitamins
M33422	gamma-glutamylphenylalanine	Peptide
M33442	pseudouridine	Nucleotide
M33443	valerate	Lipid
M33444	p-cresol	Amino Acid
M33447	palmitoleate (16:1n7)	Lipid
M33471	nicotinate ribonucleoside	Cofactors And Vitamins
M33487	glutamate, gamma-methyl ester	Amino Acid
M33587	eicosenoate (20:1)	Lipid
M33934	gamma-glutamyl-epsilon-lysine	Peptide
M33935	piperine	Xenobiotics
M33939	N-acetylthreonine	Amino Acid
M33942	N-acetylasparagine	Amino Acid
M33943	N-acetylglutamine	Amino Acid
M33946	N-acetylhistidine	Amino Acid
M33949	gamma-glutamylglycine	Peptide
M33950	N-acetylphenylalanine	Amino Acid
M33953	N-acetylarginine	Amino Acid
M33955	1-palmitoyl-GPC (16:0)	Lipid
M33959	N-acetyltryptophan	Amino Acid
M33961	1-stearoyl-GPC (18:0)	Lipid
M33965	indole	Amino Acid
M33967	N-acetylisoleucine	Amino Acid
M33968	5-dodecenoate (12:1n7)	Lipid
M33969	stearidonate (18:4n3)	Lipid
M33971	10-heptadecenoate (17:1n7)	Lipid
M33972	10-nonadecenoate (19:1n9)	Lipid
M33973	epiandrosterone sulfate	Lipid
M33997	campesterol	Lipid
M34035	linolenate [alpha or gamma; (18:3n3 or 6)]	Lipid
M34093	hyocholate	Lipid

M34381	3-ketosphinganine	Lipid
M34384	stachydrine	Xenobiotics
M34387	N-acetylproline	Amino Acid
M34389	1-methylxanthine	Xenobiotics
M34390	7-methylxanthine	Xenobiotics
M34391	1-margaroylglycerol (17:0)	Lipid
M34393	1-linolenoylglycerol (18:3)	Lipid
M34395	1-methylurate	Xenobiotics
M34396	choline phosphate	Lipid
M34398	glycylleucine	Peptide
M34399	3,7-dimethylurate	Xenobiotics
M34400	1,7-dimethylurate	Xenobiotics
M34401	5-acetylamino-6-formylamino-3-methyluracil	Xenobiotics
M34404	1,3,7-trimethylurate	Xenobiotics
M34409	stearoylcarnitine	Lipid
M34419	1-linoleoyl-GPC (18:2)	Lipid
M34424	5-acetylamino-6-amino-3-methyluracil	Xenobiotics
M34437	1-stearoyl-GPG (18:0)	Lipid
M34457	gamma-glutamylisoleucine*	Peptide
M35101	beta-guanidinopropanoate	Xenobiotics
M35107	isovalerylglycine	Amino Acid
M35114	7-methylguanine	Nucleotide
M35126	phenylacetylglutamine	Peptide
M35136	5-methyluridine (ribothymidine)	Nucleotide
M35157	N6-carbamoylthreonyladenosine	Nucleotide
M35160	oleoylcarnitine	Lipid
M35305	1-palmitoyl-GPI (16:0)*	Lipid
M35434	phenylpropionylglycine	Amino Acid
M35436	hexanoylglycine	Lipid
M35437	isobutyrylglycine	Amino Acid
M35469	N-acetyl-beta-glucosaminyllamine	Carbohydrate
M35482	2-methylmalonyl carnitine	Lipid
M35625	1-myristoylglycerol (14:0)	Lipid
M35628	1-oleoyl-GPE (18:1)	Lipid
M35630	ferulate	Xenobiotics
M35631	1-palmitoyl-GPE (16:0)	Lipid
M35632	2-(4-hydroxyphenyl)propionate	Amino Acid
M35634	3-(2-hydroxyphenyl)propionate	Xenobiotics
M35635	3-(3-hydroxyphenyl)propionate	Amino Acid
M35637	cysteinylglycine	Amino Acid
M35639	vanillate	Xenobiotics
M35651	ectoine	Xenobiotics
M35665	N-acetyl-aspartyl-glutamate (NAAG)	Amino Acid
M35669	tetradecanedioate	Lipid
M35675	2-hydroxypalmitate	Lipid
M35678	hexadecanedioate	Lipid
M35718	dihomo-linolenate (20:3n3 or n6)	Lipid
M35879	pheophorbide A	Xenobiotics
M35892	2,4,6-trihydroxybenzoate	Xenobiotics
M36103	p-cresol sulfate	Amino Acid

M36600	1-linoleoyl-GPE (18:2)*	Lipid
M36649	sucralose	Xenobiotics
M36659	glycylisoleucine	Peptide
M36713	N6-carboxymethyllysine	Carbohydrate
M36738	gamma-glutamylglutamate	Peptide
M36746	2-hydroxy-3-methylvalerate	Amino Acid
M36747	deoxycarnitine	Lipid
M36749	3-methyladipate	Lipid
M36751	N2-acetyllysine	Amino Acid
M36752	N6-acetyllysine	Amino Acid
M36754	octadecanedioate	Lipid
M36770	4-hydroxycinnamate	Amino Acid
M36808	dimethylarginine (SDMA + ADMA)	Amino Acid
M36850	tauroolithocholate 3-sulfate	Lipid
M37058	succinylcarnitine	Energy
M37063	gamma-glutamylalanine	Peptide
M37069	N-methylalanine	Amino Acid
M37070	methylphosphate	Nucleotide
M37076	N-acetylserine	Amino Acid
M37091	syringic acid	Xenobiotics
M37093	alanylleucine	Peptide
M37139	guanosine-2',3'-cyclic monophosphate	Nucleotide
M37188	5alpha-androstan-3beta,17alpha-diol monosulfate (1)	Lipid
M37191	5alpha-androstan-3beta,17beta-diol monosulfate (1)	Lipid
M37196	5alpha-pregnan-3beta,20beta-diol monosulfate (1)	Lipid
M37199	5alpha-pregnan-3beta,20alpha-diol monosulfate (1)	Lipid
M37202	4-androsten-3beta,17beta-diol disulfate (1)*	Lipid
M37203	4-androsten-3beta,17beta-diol disulfate (2)*	Lipid
M37207	4-androsten-3alpha,17alpha-diol monosulfate (2)	Lipid
M37210	4-androsten-3beta,17beta-diol monosulfate (2)	Lipid
M37211	4-androsten-3beta,17beta-diol monosulfate (1)	Lipid
M37431	N-methylproline	Amino Acid
M37432	N-acetyl-beta-alanine	Nucleotide
M37443	cysteine sulfinic acid	Amino Acid
M37455	glycerophosphoethanolamine	Lipid
M37456	N-methyltryptophan	Amino Acid
M37458	N6-carboxyethyllysine	Amino Acid
M37465	cytidine 2',3'-cyclic monophosphate	Nucleotide
M37496	N-acetylputrescine	Amino Acid
M37501	gamma-tocotrienol	Cofactors And Vitamins
M37502	alpha-tocotrienol	Cofactors And Vitamins
M37506	palmitoyl sphingomyelin (d18:1/16:0)	Lipid
M37508	3,5-dihydroxybenzoic acid	Xenobiotics
M37752	13-HODE + 9-HODE	Lipid
M38102	oleoyl ethanolamide	Lipid
M38105	secoisolariciresinol	Xenobiotics
M38109	2-aminophenol	Amino Acid
M38116	indole-3-carboxylic acid	Amino Acid
M38125	4-cholesten-3-one	Lipid
M38127	S-methylmethionine	Amino Acid

M38165	palmitoyl ethanolamide	Lipid
M38167	11-ketoetiocholanolone sulfate	Lipid
M38175	tribuloside	Xenobiotics
M38183	piperidine	Xenobiotics
M38271	pristanate	Lipid
M38273	dihydrocaffeate	Amino Acid
M38276	2,3-dihydroxyisovalerate	Xenobiotics
M38288	alpha-tocopherol acetate	Cofactors And Vitamins
M38293	13-methylmyristic acid	Lipid
M38296	17-methylstearate	Lipid
M38313	fucitol	Xenobiotics
M38395	12,13-DiHOME	Lipid
M38399	9,10-DiHOME	Lipid
M38625	stearoyl ethanolamide	Lipid
M38652	astaxanthin	Xenobiotics
M38654	maleamate	Cofactors And Vitamins
M38665	(R)-salsolinol	Amino Acid
M38667	3-methylglutaconate	Amino Acid
M38672	8-hydroxyguanine	Nucleotide
M38696	N-carbamoylsarcosine	Amino Acid
M38749	N-carbamylglutamate	Xenobiotics
M38768	15-methylpalmitate	Lipid
M39270	1-(1-enyl-palmitoyl)-GPE (P-16:0)*	Lipid
M39271	1-(1-enyl-stearoyl)-GPE (P-18:0)*	Lipid
M39379	glycoursodeoxycholate	Lipid
M39583	mevalonate	Lipid
M39587	3-(4-hydroxyphenyl)propionate	Amino Acid
M39592	S-methylcysteine	Amino Acid
M39598	7-methylurate	Xenobiotics
M39626	enterolactone	Xenobiotics
M39630	enterodiol	Xenobiotics
M39777	isomaltose	Carbohydrate
M39788	solanidine	Xenobiotics
M39994	valylleucine	Peptide
M40006	N-methylhydantoin	Amino Acid
M40007	carboxyethyl-GABA	Amino Acid
M40008	isoleucylglycine	Peptide
M40010	leucylalanine	Peptide
M40020	lysylleucine	Peptide
M40040	cortolone	Lipid
M40045	leucylglycine	Peptide
M40084	D-urobilin	Cofactors And Vitamins
M40097	X - 17299	Unknown
M40173	L-urobilin	Cofactors And Vitamins
M40406	trimethylamine N-oxide	Lipid
M40410	cis-urocanate	Amino Acid
M40452	2-oxo-1-pyrrolidinepropionate	Xenobiotics
M40464	1H-quinolin-2-one	Xenobiotics
M40473	hydantoin-5-propionic acid	Amino Acid
M40475	valylglycine	Peptide

M40479	2-oxindole-3-acetate	Xenobiotics
M40481	dihydroferulic acid	Xenobiotics
M40499	4-hydroxyglutamate	Amino Acid
M40506	1-(3-aminopropyl)-2-pyrrolidone	Xenobiotics
M40700	diglycerol	Xenobiotics
M40703	prolylglycine	Peptide
M40730	imidazole propionate	Amino Acid
M40732	4-methylthio-2-oxobutanoate	Amino Acid
M41370	phenylalanylglycine	Peptide
M41374	phenylalanylalanine	Peptide
M41515	tyrosol	Xenobiotics
M41609	bufotenine	Xenobiotics
M41888	succinimide	Xenobiotics
M42027	histidylalanine	Peptide
M42079	valylglutamine	Peptide
M42081	N6,N6-dimethyladenosine	Nucleotide
M42092	N-palmitoyl glycine	Lipid
M42094	luteolinidin	Xenobiotics
M42109	phosphate	Energy
M42370	S-1-pyrroline-5-carboxylate	Amino Acid
M42374	2-aminobutyrate	Amino Acid
M42395	undecanedioate	Lipid
M42398	1-stearoyl-GPE (18:0)	Lipid
M42420	erythronate*	Carbohydrate
M42446	1-palmitoyl-2-linoleoyl-GPC (16:0/18:2)	Lipid
M42449	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	Lipid
M42489	2-hydroxydecanoate	Lipid
M42971	biocytin	Cofactors And Vitamins
M42975	2,8-quinolinediol	Xenobiotics
M42978	dimethylmalonic acid	Lipid
M42989	N-methyltaurine	Amino Acid
M42993	N-propionylalanine	Amino Acid
M42994	glutamine-leucine	Peptide
M42999	N-methylphenylalanine	Amino Acid
M43023	pterin	Cofactors And Vitamins
M43026	nicotianamine	Xenobiotics
M43027	1,11-undecanedicarboxylate	Lipid
M43028	tryptophylglycine	Peptide
M43231	6-oxopiperidine-2-carboxylic acid	Xenobiotics
M43249	N-delta-acetylorithine*	Amino Acid
M43255	N-acetyl-1-methylhistidine*	Amino Acid
M43256	N-acetyl-3-methylhistidine*	Amino Acid
M43258	acisoga	Amino Acid
M43374	indolin-2-one	Xenobiotics
M43392	o-Tyrosine	Amino Acid
M43400	2-piperidinone	Xenobiotics
M43412	cis-4-hydroxycyclohexylacetic acid	Amino Acid
M43449	1-methyl-beta-carboline-3-carboxylic acid	Xenobiotics
M43493	formiminoglutamate	Amino Acid
M43496	3-hydroxyquinine	Xenobiotics

M43506	N-propionylmethionine	Xenobiotics
M43507	3b-hydroxy-5-cholenoic acid	Lipid
M43530	N-acetyl-cadaverine	Amino Acid
M43535	12-hydroxystearate	Lipid
M43586	N-monomethylarginine	Amino Acid
M43591	N2,N5-diacetylornithine	Amino Acid
M43761	2-aminoheptanoate	Lipid
M43802	guanidinoacetate	Amino Acid
M43807	bilirubin (Z,Z)	Cofactors And Vitamins
M43829	gamma-glutamylvaline	Peptide
M43830	7-ketolithocholate	Lipid
M43831	1-methylhistamine	Amino Acid
M43847	glycerol 3-phosphate	Lipid
M44526	3-methyl-2-oxobutyrate	Amino Acid
M44577	2-pentanamido-3-phenylpropanoic acid	Amino Acid
M44621	1-(1-enyl-oleoyl)-GPE (P-18:1)*	Lipid
M44644	12-dehydrocholate	Lipid
M44656	isovalerate	Amino Acid
M44663	naringenin	Xenobiotics
M44675	docosahexaenoate (DHA; 22:6n3)	Lipid
M44681	palmitoylcarnitine	Lipid
M44688	maltotriose	Carbohydrate
M44872	gamma-glutamylmethionine	Peptide
M44876	gamma-CEHC	Cofactors And Vitamins
M44877	N-palmitoyl-sphingosine (d18:1/16:0)	Lipid
M44878	methionine sulfone	Amino Acid
M45413	O-sulfo-L-tyrosine	Xenobiotics
M45428	N-acetylmethionine sulfoxide	Amino Acid
M45434	1,3-propanediol	Xenobiotics
M45966	1-stearoylglycerophosphoserine*	Lipid
M45968	1-oleoyl-GPG (18:1)*	Lipid
M45970	1-palmitoyl-GPG (16:0)*	Lipid
M45986	coprostanol	Lipid
M46109	13-HOTrE	Lipid
M46142	mannitol/sorbitol	Carbohydrate
M46144	methyl glucopyranoside (alpha + beta)	Xenobiotics
M46225	pyroglutamine*	Amino Acid
M46283	X - 15461	Unknown
M46285	X - 21283	Unknown
M46336	6-oxolithocholate	Lipid
M46347	X - 11381	Unknown
M46355	X - 09789	Unknown
M46371	X - 21327	Unknown
M46398	X - 21353	Unknown
M46410	X - 21365	Unknown
M46455	X - 21410	Unknown
M46463	X - 14364	Unknown
M46473	X - 15497	Unknown
M46487	X - 21442	Unknown
M46493	X - 21448	Unknown

M46500	X - 02249	Unknown
M46515	X - 21470	Unknown
M46517	X - 16946	Unknown
M46537	alpha-hydroxyisovalerate	Amino Acid
M46539	N-acetylglucosamine/N-acetylgalactosamine	Carbohydrate
M46597	X - 11429	Unknown
M46599	X - 11440	Unknown
M46604	X - 11538	Unknown
M46619	X - 12450	Unknown
M46632	X - 14056	Unknown
M46646	X - 13835	Unknown
M46661	X - 15245	Unknown
M46677	X - 16654	Unknown
M46689	X - 17145	Unknown
M46705	X - 17438	Unknown
M46706	X - 17469	Unknown
M46707	X - 17653	Unknown
M46738	X - 21664	Unknown
M46740	X - 21666	Unknown
M46798	1-oleoyl-2-linoleoyl-glycerol (18:1/18:2)	Lipid
M46799	1-oleoyl-3-linoleoyl-glycerol (18:1/18:2)	Lipid
M46898	X - 21729	Unknown
M46960	sulfate*	Xenobiotics
M46964	X - 21788	Unknown
M46972	X - 21796	Unknown
M46989	X - 17348	Unknown
M47089	3-sulfo-L-alanine	Amino Acid
M47101	N-methylpipercolate	Xenobiotics
M47113	2,4-dihydroxyhydrocinnamic acid	Xenobiotics
M47123	10-hydroxystearate	Lipid
M47183	X - 20747	Unknown
M47194	X - 20197	Unknown
M47195	X - 20185	Unknown
M47196	X - 20172	Unknown
M47197	X - 20100	Unknown
M47203	X - 13007	Unknown
M47204	X - 14904	Unknown
M47205	X - 21959	Unknown
M47211	X - 14095	Unknown
M47217	X - 14141	Unknown
M47218	X - 14697	Unknown
M47219	X - 14196	Unknown
M47222	X - 14237	Unknown
M47223	X - 14254	Unknown
M47224	X - 14263	Unknown
M47225	X - 14314	Unknown
M47226	X - 14302	Unknown
M47227	X - 14337	Unknown
M47230	X - 14383	Unknown
M47231	X - 14384	Unknown

M47233	X - 14392	Unknown
M47237	X - 14416	Unknown
M47239	X - 14454	Unknown
M47247	X - 14502	Unknown
M47254	X - 14900	Unknown
M47255	X - 14264	Unknown
M47259	X - 15150	Unknown
M47261	X - 15608	Unknown
M47263	X - 15806	Unknown
M47265	X - 15843	Unknown
M47266	X - 15853	Unknown
M47267	X - 15854	Unknown
M47268	X - 15856	Unknown
M47275	X - 16343	Unknown
M47276	X - 22030	Unknown
M47277	X - 16391	Unknown
M47280	X - 17739	Unknown
M47283	X - 17749	Unknown
M47291	X - 17807	Unknown
M47298	X - 17852	Unknown
M47307	X - 17877	Unknown
M47308	X - 22062	Unknown
M47316	X - 17910	Unknown
M47317	X - 17919	Unknown
M47320	X - 17960	Unknown
M47323	X - 17969	Unknown
M47328	X - 17978	Unknown
M47330	X - 17983	Unknown
M47335	X - 18162	Unknown
M47337	X - 18165	Unknown
M47346	X - 18410	Unknown
M47347	X - 18889	Unknown
M47352	X - 19220	Unknown
M47353	X - 19232	Unknown
M47358	X - 19751	Unknown
M47359	X - 19763	Unknown
M47380	X - 19931	Unknown
M47381	X - 19932	Unknown
M47388	X - 22142	Unknown
M47391	X - 22145	Unknown
M47392	X - 22146	Unknown
M47431	X - 11612	Unknown
M47437	X - 12680	Unknown
M47439	X - 13507	Unknown
M47497	X - 11640	Unknown
M47545	X - 17009	Unknown
M47581	X - 10457	Unknown
M47619	X - 15136	Unknown
M47639	X - 12456	Unknown
M47642	X - 12101	Unknown

M47643	X - 12125	Unknown
M47673	X - 19299	Unknown
M47675	X - 19497	Unknown
M47685	X - 12097	Unknown
M47686	X - 12096	Unknown
M47687	X - 12100	Unknown
M47695	X - 12117	Unknown
M47706	X - 12199	Unknown
M47709	X - 12339	Unknown
M47715	X - 12681	Unknown
M47718	X - 12688	Unknown
M47787	X - 14838	Unknown
M47791	X - 13696	Unknown
M47800	X - 15666	Unknown
M47806	X - 17162	Unknown
M47809	X - 17303	Unknown
M47836	X - 18307	Unknown
M47898	1-pentadecanoylglycerol (1-monopentadecanoin)	Lipid
M47905	X - 12026	Unknown
M47954	X - 12879	Unknown
M47999	X - 17349	Unknown
M48114	1-methylguanidine	Amino Acid
M48118	mevalonolactone	Lipid
M48141	2-keto-3-deoxy-gluconate	Xenobiotics
M48149	N-acetylglucosaminylasparagine	Carbohydrate
M48152	glucose	Carbohydrate
M48153	mannose	Carbohydrate
M48186	X - 22835	Unknown
M48187	N-acetyltaurine	Amino Acid
M48189	leucylglutamine*	Peptide
M48191	X - 22836	Unknown
M48195	fructose	Carbohydrate
M48252	3-methylurate*	Xenobiotics
M48255	arabonate/xylonate	Carbohydrate
M48258	1-oleoyl-GPC (18:1)	Lipid
M48340	ribulose/xylulose	Carbohydrate
M48428	pyrraline	Xenobiotics
M48433	N-formylphenylalanine	Amino Acid
M48434	N-acetylcitrulline	Amino Acid
M48455	N2,N6-diacetyllysine	Amino Acid
M48569	acesulfame	Xenobiotics
M48660	X - 23115	Unknown
M48679	N-acetylhistamine	Amino Acid
M48757	N-acetylkynurenine (2)	Amino Acid
M48773	X - 23159	Unknown
M48774	X - 23160	Unknown
M48853	X - 23173	Unknown
M48857	glycerophosphoglycerol	Lipid
M48885	arabitol/xylitol	Carbohydrate
M48889	X - 23193	Unknown

M48892	X - 23196	Unknown
M48973	X - 23277	Unknown
M48990	pyruvate	Carbohydrate
M48994	X - 23295	Unknown
M49008	X - 23308	Unknown
M49228	X - 23369	Unknown
M49298	X - 23438	Unknown
M49311	X - 23451	Unknown
M49316	X - 23456	Unknown
M49329	X - 23469	Unknown
M49330	X - 23470	Unknown
M49335	X - 23475	Unknown
M49342	X - 23482	Unknown
M49383	X - 23507	Unknown
M49457	X - 23581	Unknown
M49459	X - 23583	Unknown
M49460	X - 23584	Unknown
M49461	X - 23585	Unknown
M49463	X - 23587	Unknown
M49476	X - 23600	Unknown
M49513	X - 23637	Unknown
M49515	X - 23639	Unknown
M49529	X - 23652	Unknown
M49532	X - 23655	Unknown
M49534	X - 23657	Unknown
M49539	X - 23662	Unknown
M49542	X - 23665	Unknown
M49588	X - 23710	Unknown
M49626	X - 23728	Unknown
M49627	X - 23729	Unknown
M49630	X - 23732	Unknown
M49631	X - 23733	Unknown
M49632	X - 23734	Unknown
M49634	X - 23736	Unknown
M49635	X - 23737	Unknown
M49636	X - 23738	Unknown
M49645	X - 23747	Unknown
M49646	X - 23748	Unknown
M49647	X - 23749	Unknown
M49650	X - 23752	Unknown
M49651	X - 23753	Unknown
M49663	X - 23765	Unknown
M49665	X - 23767	Unknown
M49675	X - 23776	Unknown
M49679	X - 23780	Unknown
M49681	X - 23782	Unknown
M49834	X - 23925	Unknown
M49883	X - 23974	Unknown
M52052	X - 24023	Unknown
M52056	X - 24027	Unknown

M52106	X - 24077	Unknown
M52206	X - 24177	Unknown
M52233	sitostanol	Xenobiotics
M52234	glycosyl-N-stearoyl-sphingosine (d18:1/18:0)	Lipid
M52238	X - 24204	Unknown
M52243	X - 24207	Unknown
M52245	X - 24209	Unknown
M52247	X - 24211	Unknown
M52248	X - 24212	Unknown
M52249	X - 24213	Unknown
M52251	X - 24215	Unknown
M52252	X - 24216	Unknown
M52257	X - 24220	Unknown
M52267	X - 24230	Unknown
M52268	X - 24231	Unknown
M52271	X - 24234	Unknown
M52273	beta-carotene	Xenobiotics
M52276	X - 24238	Unknown
M52278	X - 24240	Unknown
M52281	2-hydroxybutyrate/2-hydroxyisobutyrate	Amino Acid
M52282	2-methylcitrate/homocitrate	Energy
M52285	oleate/vaccenate (18:1)	Lipid
M52286	X - 24243	Unknown
M52289	X - 24246	Unknown
M52294	2-hydroxyglutarate	Lipid
M52307	glycerophosphoinositol*	Lipid
M52315	X - 24260	Unknown
M52340	N-carbamoylalanine	Amino Acid
M52413	X - 24278	Unknown
M52434	palmitoyl dihydrosphingomyelin (d18:0/16:0)*	Lipid
M52450	1-palmitoyl-2-linoleoyl-GPI (16:0/18:2)	Lipid
M52453	1-oleoyl-2-linoleoyl-GPC (18:1/18:2)*	Lipid
M52461	1-palmitoyl-2-oleoyl-GPC (16:0/18:1)	Lipid
M52462	1-palmitoyl-2-arachidonoyl-GPC (16:0/20:4)	Lipid
M52473	gamma-tocopherol/beta-tocopherol	Cofactors And Vitamins
M52603	1,2-dilinoleoyl-GPC (18:2/18:2)	Lipid
M52604	N-palmitoyl-sphinganine (d18:0/16:0)	Lipid
M52608	linoleoyl ethanolamide	Lipid
M52625	1,2-dipalmitoyl-GPG (16:0/16:0)	Lipid
M52633	1-palmitoyl-2-linoleoyl-glycerol (16:0/18:2)*	Lipid
M52634	1-palmitoyl-3-linoleoyl-glycerol (16:0/18:2)*	Lipid
M52637	X - 24408	Unknown
M52639	X - 24410	Unknown
M52641	X - 24412	Unknown
M52642	X - 24413	Unknown
M52655	X - 24425	Unknown
M52661	X - 24431	Unknown
M52766	X - 24449	Unknown
M52772	X - 24455	Unknown
M52773	X - 24456	Unknown

M52782	X - 24465	Unknown
M52791	X - 24474	Unknown
M52833	X - 24512	Unknown
M52850	X - 24529	Unknown
M52867	X - 24546	Unknown
M52871	X - 24550	Unknown
M52879	X - 24558	Unknown
M52925	phenylacetylglutamate	Peptide
M52938	3-hydroxystearate	Lipid
M52969	deoxycholic acid sulfate	Lipid
M52970	ursodeoxycholate sulfate (1)	Lipid
M52975	glycodeoxycholate sulfate	Lipid
M52987	N1,N12-diacetylspermine	Amino Acid
M53010	lactosyl-N-palmitoyl-sphingosine (d18:1/16:0)	Lipid
M53013	glycosyl-N-palmitoyl-sphingosine (d18:1/16:0)	Lipid
M53023	X - 24608	Unknown
M53086	X - 24658	Unknown
M53106	X - 24678	Unknown
M53110	X - 24682	Unknown
M53111	X - 24683	Unknown
M53114	X - 24686	Unknown
M53121	X - 24693	Unknown
M53125	X - 24697	Unknown
M53127	X - 24699	Unknown
M53156	X - 24727	Unknown
M53158	X - 24729	Unknown
M53163	glutamyl-meso-diaminopimelate	Xenobiotics
M53165	alanyl-glutamyl-meso-diaminopimelate	Peptide
M53172	X - 24736	Unknown
M53176	1-linoleoyl-2-linolenoyl-GPC (18:2/18:3)*	Lipid
M53214	X - 24738	Unknown
M53215	X - 24739	Unknown
M53229	2-methylserine	Amino Acid
M53230	3-hydroxyhexanoate	Lipid
M53231	thioprolin	Amino Acid
M53232	2-acetamidobutanoate	Xenobiotics
M53234	X - 24743	Unknown
M53237	sedoheptulose	Carbohydrate
M54676	3-methylglutarate/2-methylglutarate	Lipid
M54687	X - 24753	Unknown
M54701	X - 24763	Unknown
M54704	X - 24766	Unknown
M54705	X - 24767	Unknown
M54723	3-carboxyadipate	Lipid
M54831	X - 24803	Unknown
M54832	X - 24804	Unknown
M54834	X - 24806	Unknown
M54837	X - 24809	Unknown
M54838	X - 24810	Unknown
M54839	X - 24811	Unknown

M54841	X - 24813	Unknown
M54857	X - 24829	Unknown
M54859	X - 24831	Unknown
M54860	X - 24832	Unknown
M54881	X - 24853	Unknown
M54882	X - 24854	Unknown
M54883	X - 24855	Unknown
M54887	1-palmitoyl-2-linoleoyl-digalactosylglycerol (16:0/18:2)*	Lipid
M54891	1,2-dilinolenoyl-galactosylglycerol (18:3/18:3)*	Lipid
M54892	1,2-dilinolenoyl-digalactosylglycerol (18:3/18:3)	Lipid
M54893	1-palmitoyl-2-linolenoyl-digalactosylglycerol (16:0/18:3)	Lipid
M54896	1-linoleoyl-2-linolenoyl-digalactosylglycerol (18;2/18:3)*	Lipid
M54897	1,2-dilinoleoyl-digalactosylglycerol (18:2/18:2)*	Lipid
M54898	1-linoleoyl-2-linolenoyl-galactosylglycerol (18:2/18:3)*	Lipid
M54899	1,2-dilinoleoyl-galactosylglycerol (18:2/18:2)*	Lipid
M54901	1-palmitoyl-2-linoleoyl-galactosylglycerol (16:0/18:2)*	Lipid

Sub pathway

Amino Acid

Amino Acid

Pyrimidine Metabolism, Uracil Containing

Methionine, Cysteine, Sam And Taurine Metabolism

Glutamate Metabolism

Glycine, Serine And Threonine Metabolism

Amino Acid

Amino Acid

Lipid

Amino Acid

Lysine Metabolism

Tryptophan Metabolism

Alanine And Aspartate Metabolism

Polyamine Metabolism

Alanine And Aspartate Metabolism

Amino Acid

Pyrimidine Metabolism, Cytidine Containing

Carbohydrate

Tca Cycle

Mevalonate Metabolism

Pyrimidine Metabolism, Cytidine Containing

Pentose Metabolism

Amino Acid

Lipid

Purine Metabolism, Adenine Containing

Purine Metabolism, Adenine Containing

Phenylalanine And Tyrosine Metabolism

Biotin Metabolism

Xenobiotics

Pyrimidine Metabolism, Cytidine Containing

Carbohydrate

Xenobiotics

Cofactors And Vitamins

Food Component/plant

Pyrimidine Metabolism, Orotate Containing

Pyrimidine Metabolism, Thymine Containing

Pyrimidine Metabolism, Uracil Containing

Nucleotide

Amino Acid

Vitamin B6 Metabolism

Lipid

Nucleotide

Lipid Polyunsaturated Fatty Acid (n3 And N6)

Lipid

Long Chain Fatty Acid

Lipid

Nucleotide

Inositol Metabolism

Amino Acid

Alanine And Aspartate Metabolism
Sterol
Amino Acid
Amino Acid
Amino Acid
Amino Acid
Energy
Lipid
Lipid
Lipid
Lipid
Lipid
Polyamine Metabolism
Purine Metabolism, Guanine Containing
Pyrimidine Metabolism, Uracil Containing
Phenylalanine And Tyrosine Metabolism
Glutamate Metabolism
Amino Acid
Pyrimidine Metabolism, Thymine Containing
Tca Cycle
Amino Acid
Pentose Metabolism
Secondary Bile Acid Metabolism
Amino Acid
Amino Acid
Lysine Metabolism
Fatty Acid Metabolism (also Bcaa Metabolism)
Lysine Metabolism
Tryptophan Metabolism
Nicotinate And Nicotinamide Metabolism
Pyrimidine Metabolism, Orotate Containing
Cofactors And Vitamins
Sphingolipid Metabolism
Tryptophan Metabolism
Xenobiotics
Amino Acid
Disaccharides And Oligosaccharides
Purine Metabolism, Adenine Containing
Long Chain Fatty Acid
Purine Metabolism, Adenine Containing
Fatty Acid, Monohydroxy
Amino Acid
Cofactors And Vitamins
Primary Bile Acid Metabolism
Energy
Pyrimidine Metabolism, Thymine Containing
Carbohydrate
Purine Metabolism, Guanine Containing
Histidine Metabolism
Phenylalanine And Tyrosine Metabolism

Food Component/plant
Amino Acid
Methionine, Cysteine, Sam And Taurine Metabolism
Leucine, Isoleucine And Valine Metabolism
Amino Acid
Leucine, Isoleucine And Valine Metabolism
Pyrimidine Metabolism, Orotate Containing
Phenylalanine And Tyrosine Metabolism
Nucleotide
Lipid
Amino Acid
Lipid
Tca Cycle
Lipid
Lipid
Glycine, Serine And Threonine Metabolism
Amino Acid
Cofactors And Vitamins
Amino Acid
Dipeptide Derivative
Vitamin A Metabolism
Cofactors And Vitamins
Methionine, Cysteine, Sam And Taurine Metabolism
Amino Acid
Nicotinate And Nicotinamide Metabolism
Methionine, Cysteine, Sam And Taurine Metabolism
Amino Acid
Riboflavin Metabolism
Cofactors And Vitamins
Vitamin B6 Metabolism
Pyrimidine Metabolism, Thymine Containing
Amino Acid
Peptide
Amino Acid
Pyrimidine Metabolism, Cytidine Containing
Nucleotide
Amino Acid
Nucleotide
Pyrimidine Metabolism, Uracil Containing
Tryptophan Metabolism
Amino Acid
Thiamine Metabolism
Tryptophan Metabolism
Lysine Metabolism
Xenobiotics
Tca Cycle
Food Component/plant
Amino Acid
Phenylalanine And Tyrosine Metabolism
Secondary Bile Acid Metabolism

Purine Metabolism, (hypo)xanthine/inosine Containing
Lipid
Food Component/plant
Food Component/plant
Food Component/plant
Purine Metabolism, (hypo)xanthine/inosine Containing
Glycine, Serine And Threonine Metabolism
Lysine Metabolism
Xenobiotics
Aminosugar Metabolism
Urea Cycle; Arginine And Proline Metabolism
Lipid
Lipid
Pentose Metabolism
Glycogen Metabolism
Pentose Metabolism
Nucleotide
Food Component/plant
Benzoate Metabolism
Amino Acid
Amino Acid
Tryptophan Metabolism
Guanidino And Acetamido Metabolism
Lysine Metabolism
Fatty Acid, Dicarboxylate
Methionine, Cysteine, Sam And Taurine Metabolism
Histidine Metabolism
Glutamate Metabolism
Tca Cycle
Fatty Acid, Dicarboxylate
Leucine, Isoleucine And Valine Metabolism
Dipeptide Derivative
Amino Acid
Leucine, Isoleucine And Valine Metabolism
Carbohydrate
Xenobiotics
Riboflavin Metabolism
Fatty Acid Synthesis
Pyrimidine Metabolism, Cytidine Containing
Amino Acid
Lipid
Benzoate Metabolism
Sphingolipid Metabolism
Sphingolipid Metabolism
Sphingolipid Metabolism
Food Component/plant
Lipid
Lysine Metabolism
Lipid
Gamma-glutamyl Amino Acid

Xenobiotics
Phenylalanine And Tyrosine Metabolism
Benzoate Metabolism
Lysine Metabolism
Xenobiotics
Amino Acid
Aminosugar Metabolism
Dipeptide
Lipid
Peptide
Methionine, Cysteine, Sam And Taurine Metabolism
Xenobiotics
Xenobiotics
Lipid
Lipid
Lipid
Lipid
Lipid
Phospholipid Metabolism
Phospholipid Metabolism
Lipid
Fatty Acid, Dicarboxylate
Chemical
Leucine, Isoleucine And Valine Metabolism
Food Component/plant
Food Component/plant
Lipid
Benzoate Metabolism
Fatty Acid, Dicarboxylate
Xenobiotics
Fatty Acid, Monohydroxy
Chemical
Food Component/plant
Sterol
Lipid
Food Component/plant
Monoacylglycerol
Food Component/plant
Amino Acid
Pyrimidine Metabolism, Uracil Containing
Purine Metabolism, Adenine Containing
Amino Acid
Amino Acid
Amino Acid
Methionine, Cysteine, Sam And Taurine Metabolism
Amino Acid
Amino Acid
Xenobiotics
Fatty Acid, Branched
Lipid

Lipid
Monoacylglycerol
Amino Acid
Food Component/plant
Food Component/plant
Sterol
Nicotinate And Nicotinamide Metabolism
Thiamine Metabolism
Nicotinate And Nicotinamide Metabolism
Amino Acid
Amino Acid
Fructose, Mannose And Galactose Metabolism
Carbohydrate
Pentose Metabolism
Cofactors And Vitamins
Histidine Metabolism
Dipeptide
Glutamate Metabolism
Amino Acid
Cofactors And Vitamins
Chemical
Lipid
Fatty Acid Metabolism (also Bcaa Metabolism)
Secondary Bile Acid Metabolism
Lipid
Secondary Bile Acid Metabolism
Secondary Bile Acid Metabolism
Fatty Acid Metabolism (also Bcaa Metabolism)
Fatty Acid, Monohydroxy
Fatty Acid, Monohydroxy
Amino Acid
Lipid
Amino Acid
Nucleotide
Lipid
Histidine Metabolism
Histidine Metabolism
Purine Metabolism, Guanine Containing
Aminosugar Metabolism
Lipid
Phenylalanine And Tyrosine Metabolism
Xenobiotics
Lipid
Cofactors And Vitamins
Amino Acid
Fatty Acid, Monohydroxy
Lipid
Lipid
Lipid
Cofactors And Vitamins

Xenobiotics
Guanidino And Acetamido Metabolism
Food Component/plant
Fatty Acid, Amide
Fatty Acid, Monohydroxy
Fatty Acid Metabolism(acyl Glycine)
Lipid
Lipid
Lipid
Monoacylglycerol
Lipid
Lipid
Lipid
Lipid
Lipid
Lipid
Urea Cycle; Arginine And Proline Metabolism
Nicotinate And Nicotinamide Metabolism
Tryptophan Metabolism
Tocopherol Metabolism
Peptide
Nucleotide
Lipid
Phenylalanine And Tyrosine Metabolism
Lipid
Nicotinate And Nicotinamide Metabolism
Glutamate Metabolism
Lipid
Gamma-glutamyl Amino Acid
Xenobiotics
Amino Acid
Alanine And Aspartate Metabolism
Glutamate Metabolism
Histidine Metabolism
Gamma-glutamyl Amino Acid
Phenylalanine And Tyrosine Metabolism
Urea Cycle; Arginine And Proline Metabolism
Lipid
Tryptophan Metabolism
Lipid
Tryptophan Metabolism
Leucine, Isoleucine And Valine Metabolism
Lipid
Lipid
Lipid
Lipid
Lipid
Sterol
Lipid
Secondary Bile Acid Metabolism

Sphingolipid Metabolism

Xenobiotics

Urea Cycle; Arginine And Proline Metabolism

Xenobiotics

Xenobiotics

Monoacylglycerol

Monoacylglycerol

Xenobiotics

Phospholipid Metabolism

Dipeptide

Xanthine Metabolism

Xenobiotics

Xanthine Metabolism

Xenobiotics

Lipid

Lipid

Xanthine Metabolism

Lysolipid

Gamma-glutamyl Amino Acid

Food Component/plant

Leucine, Isoleucine And Valine Metabolism

Nucleotide

Amino Acid

Nucleotide

Nucleotide

Lipid

Lipid

Phenylalanine And Tyrosine Metabolism

Fatty Acid Metabolism(acyl Glycine)

Leucine, Isoleucine And Valine Metabolism

Aminosugar Metabolism

Fatty Acid Synthesis

Monoacylglycerol

Lipid

Food Component/plant

Lipid

Phenylalanine And Tyrosine Metabolism

Benzoate Metabolism

Amino Acid

Glutathione Metabolism

Food Component/plant

Chemical

Glutamate Metabolism

Lipid

Lipid

Lipid

Lipid

Food Component/plant

Benzoate Metabolism

Amino Acid

Lysolipid
Food Component/plant
Dipeptide
Advanced Glycation End-product
Gamma-glutamyl Amino Acid
Amino Acid
Lipid
Fatty Acid, Dicarboxylate
Lysine Metabolism
Amino Acid
Lipid
Phenylalanine And Tyrosine Metabolism
Amino Acid
Lipid
Energy
Gamma-glutamyl Amino Acid
Alanine And Aspartate Metabolism
Purine And Pyrimidine Metabolism
Amino Acid
Food Component/plant
Dipeptide
Purine Metabolism, Guanine Containing
Steroid
Steroid
Steroid
Steroid
Lipid
Lipid
Steroid
Steroid
Steroid
Urea Cycle; Arginine And Proline Metabolism
Nucleotide
Methionine, Cysteine, Sam And Taurine Metabolism
Phospholipid Metabolism
Tryptophan Metabolism
Lysine Metabolism
Pyrimidine Metabolism, Cytidine Containing
Polyamine Metabolism
Tocopherol Metabolism
Tocopherol Metabolism
Lipid
Food Component/plant
Lipid
Endocannabinoid
Food Component/plant
Tryptophan Metabolism
Tryptophan Metabolism
Sterol
Methionine, Cysteine, Sam And Taurine Metabolism

Endocannabinoid
Steroid
Food Component/plant
Food Component/plant
Fatty Acid, Branched
Phenylalanine And Tyrosine Metabolism
Xenobiotics
Tocopherol Metabolism
Fatty Acid, Branched
Lipid
Food Component/plant
Lipid
Fatty Acid, Dihydroxy
Endocannabinoid
Food Component/plant
Nicotinate And Nicotinamide Metabolism
Phenylalanine And Tyrosine Metabolism
Leucine, Isoleucine And Valine Metabolism
Purine Metabolism, Guanine Containing
Creatine Metabolism
Drug
Lipid
Lipid
Lysolipid
Lipid
Mevalonate Metabolism
Phenylalanine And Tyrosine Metabolism
Amino Acid
Xanthine Metabolism
Food Component/plant
Food Component/plant
Glycogen Metabolism
Food Component/plant
Dipeptide
Creatine Metabolism
Glutamate Metabolism
Dipeptide
Dipeptide
Dipeptide
Steroid
Dipeptide
Hemoglobin And Porphyrin Metabolism
Unknown
Cofactors And Vitamins
Phospholipid Metabolism
Histidine Metabolism
Chemical
Food Component/plant
Histidine Metabolism
Dipeptide

Food Component/plant
Food Component/plant
Glutamate Metabolism
Chemical
Chemical
Dipeptide
Histidine Metabolism
Methionine, Cysteine, Sam And Taurine Metabolism
Dipeptide
Dipeptide
Food Component/plant
Food Component/plant
Chemical
Dipeptide
Dipeptide
Purine Metabolism, Adenine Containing
Fatty Acid Metabolism(acyl Glycine)
Food Component/plant
Oxidative Phosphorylation
Glutamate Metabolism
Methionine, Cysteine, Sam And Taurine Metabolism
Fatty Acid, Dicarboxylate
Lysolipid
Aminosugar Metabolism
Phospholipid Metabolism
Phospholipid Metabolism
Lipid
Biotin Metabolism
Food Component/plant
Fatty Acid, Dicarboxylate
Methionine, Cysteine, Sam And Taurine Metabolism
Alanine And Aspartate Metabolism
Dipeptide
Phenylalanine And Tyrosine Metabolism
Pterin Metabolism
Food Component/plant
Fatty Acid, Dicarboxylate
Dipeptide
Drug
Amino Acid
Histidine Metabolism
Histidine Metabolism
Amino Acid
Food Component/plant
Phenylalanine And Tyrosine Metabolism
Xenobiotics
Phenylalanine And Tyrosine Metabolism
Food Component/plant
Histidine Metabolism
Xenobiotics

Unknown

Unknown

Unknown

Leucine, Isoleucine And Valine Metabolism

Aminosugar Metabolism

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Diacylglycerol

Diacylglycerol

Unknown

Chemical

Unknown

Unknown

Unknown

Alanine And Aspartate Metabolism

Chemical

Chemical

Fatty Acid, Monohydroxy

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

Unknown

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Monoacylglycerol
Unknown
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Unknown
Guanidino And Acetamido Metabolism
Mevalonate Metabolism
Food Component/plant
Aminosugar Metabolism
Glycolysis, Gluconeogenesis, And Pyruvate Metabolism
Fructose, Mannose And Galactose Metabolism
Unknown
Methionine, Cysteine, Sam And Taurine Metabolism
Dipeptide
Unknown
Fructose, Mannose And Galactose Metabolism
Xanthine Metabolism
Pentose Phosphate Pathway
Lysolipid
Pentose Metabolism
Food Component/plant
Phenylalanine And Tyrosine Metabolism
Urea Cycle; Arginine And Proline Metabolism
Lysine Metabolism
Food Component/plant
Unknown
Histidine Metabolism
Tryptophan Metabolism
Unknown
Unknown
Unknown
Glycerolipid Metabolism
Pentose Metabolism
Unknown

Unknown

Unknown

Glycolysis, Gluconeogenesis, And Pyruvate Metabolism

Unknown

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Acetylated Peptides
Fatty Acid, Monohydroxy
Secondary Bile Acid Metabolism
Secondary Bile Acid Metabolism
Secondary Bile Acid Metabolism
Polyamine Metabolism
Sphingolipid Metabolism
Sphingolipid Metabolism
Unknown
Unknown
Unknown
Unknown
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Unknown
Unknown
Bacterial/fungal
Polypeptide
Unknown
Phospholipid Metabolism
Unknown
Unknown
Glycine, Serine And Threonine Metabolism
Fatty Acid, Monohydroxy
Tryptophan Metabolism
Bacterial/fungal
Unknown
Pentose Metabolism
Fatty Acid, Dicarboxylate
Unknown
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Unknown
Fatty Acid, Dicarboxylate
Unknown
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Unknown

Unknown

Unknown

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

Glycolipid Metabolism

OTU

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representative sequence

TACGGAGGATCCGAGCGTTATCCGGATTTATTGGGTTTAAAGGGAGCGTAGATGGATGTTTAAAGTCAGTTGTGAAAGTTTGC GGCTC
TACGGAGGATCCGAGCGTTATCCGGATTTATTGGGTTTAAAGGGAGCGTAGGCGGACGCTTAAAGTCAGTTGTGAAAGTTTGC GGCTC
AACGTAGGGTGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGAGCGCAGGCCGGAAGACAAGTTGGAAGTGAAAACCATGGGC
TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGTAGACGGTAAAGCAAGTCTGAAGTGAAAGCCCGGGGC
TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGTAGGCGGCGAGCAAGTCAGAAGTGAAAGCCCGGGGC
TACGTATGGTGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGCAGGCCGTACGGCAAGTCTGATGTGAAATCCCGGGGCT
TACGTATGGTGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGTAGACGGCGAGACAAGTCTGAAGTGAAAGCCCGGGGC
TACGTATGGTGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGTAGGTGGCAAGGCAAGTCAGATGTGAAAACCCGGGGC
TACGTAGGGGGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGTAGACGGCTGTGTAAGTCTGATGTGAAAGACCGGGGC
TACGTAGGTGGCAAGCGTTGTCCGGAATTACTGGGTGTAAGGGCGTGCAGCCGGGCATGCAAGTCAGATGTGAAATCTCAGGGCT
TACGTATGGTGCAAGCGTTATCCGGATTTACTGGGTGTAAGGGAGCGCAGGCCGTGCGGCAAGTCTGATGTGAAAGCCCGGGGC
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Phylum	Class	Order	Family	Genus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Sutterella
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Desulfovibrio
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales		
Proteobacteria	Alphaproteobacteria	RF32		
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Tenericutes	Mollicutes	RF39		

Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia
Tenericutes	Mollicutes	RF39		
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Phascolarctobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospira
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Bacteroidetes	Bacteroidia	Bacteroidales	[Paraprevotellaceae]	Paraprevotella
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia

Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Veillonella
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Proteobacteria	Alphaproteobacteria	RF32		
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Tenericutes	Mollicutes	RF39		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Tenericutes	RF3	ML615J-28		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospira
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus

Proteobacteria	Alphaproteobacteria	RF32		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Dialister
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Firmicutes	Clostridia	Clostridiales		
Proteobacteria	Alphaproteobacteria	RF32		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Bacilli	Turicibacterales	Turicibacteraceae	Turicibacter
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coproccoccus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Cyanobacteria	4C0d-2	YS2		
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	[Odoribacteraceae]	Butyricimonas
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	

Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coproccoccus
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Anaerostipes
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Cyanobacteria	Chloroplast	Streptophyta		
Actinobacteria	Coriobacteria	Coriobacteriales	Coriobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Sutterella
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	cc_115
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coproccoccus
Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	Enterococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coproccoccus
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Oxalobacter
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	

Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	[Eubacterium]
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	Eggerthella
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Holdemania
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia			

Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Coprobacillus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	cc_115
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Fusobacteria	Fusobacteriia	Fusobacteriales	Fusobacteriaceae	Fusobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Lactococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	Adlercreutzia
Proteobacteria	Gammaproteobacteria	Pasteurellales	Pasteurellaceae	Haemophilus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Coprobacillus
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium
Tenericutes	Mollicutes	RF39		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Peptococcaceae	

Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Phascolarctobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerotruncus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomyces
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Peptococcaceae	rc4-4
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Sutterella
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Porphyromonas
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium

Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Ralstonia
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	Christensenella
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium
Firmicutes	Bacilli	Gemellales	Gemellaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	

Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	
Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Bilophila
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerotruncus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Bacteroidetes	Bacteroidia	Bacteroidales	[Paraprevotellaceae]	Paraprevotella
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus

Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]
Bacteroidetes	Bacteroidia	Bacteroidales	[Odoribacteraceae]	Odoribacter
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Eubacteriaceae	Anaerofustis
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Catenibacterium
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Sutterella
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	Christensenella
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	[Eubacterium]
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales		

Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coproccoccus
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales		
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	Atopobium
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Tenericutes	Mollicutes	RF39		
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira
Actinobacteria	Coriobacteriia	Coriobacteriales	Coriobacteriaceae	Collinsella
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Anaerostipes
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Acidaminococcus
Firmicutes	Clostridia	Clostridiales		
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides